1.1.1 The Institution ensures effective curriculum delivery through a well-planned and documented process

Effective curriculum delivery is the heart and soul of the college and is ensured through a well-planned and documented process. Semester readiness starts with the academic calendar, which is prepared after studying the university academic calendar which includes the important activities and events to be conducted throughout the session. The next important activity related to curriculum delivery is load distribution, which is also done in advance considering experience and specialization of the faculties. The college allows complete freedom to students to make a choice of offered elective courses and this is also done through a documented process before preparation of Timetable. Timetable committee prepares the timetable. Each course faculty then prepares its Lesson / Teaching Plan and Laboratory Plan according to the timetable and Academic Calendar. The LP/TP presents a complete roadmap about how each faculty is going to do the effective delivery of their syllabus. Orientation program and Skill Development Programs are conducted during the first week of every new session i.e. at the start of the semester to introduce skills and knowledge beyond the syllabus and make our students ready to face the challenges of engineering. Course syllabus and course outcomes are conveyed to students in the very first lecture of course. CO-PO-PSO mapping is done, and attainment computation is done at the end of every semester to find the gap analysis. The course files of faculties are monitored twice a semester by the documentation committee through internal audit team and reports are prepared and shared with Principal, Dean Academics, Dean IQAC and faculties. Course completion as per the LP/TP is monitored periodically during the session by HOD. Weekly syllabus completion report is submitted to IQAC department by the respective departments. Monthly reports are also submitted by the faculties to mention their progress and involvement in

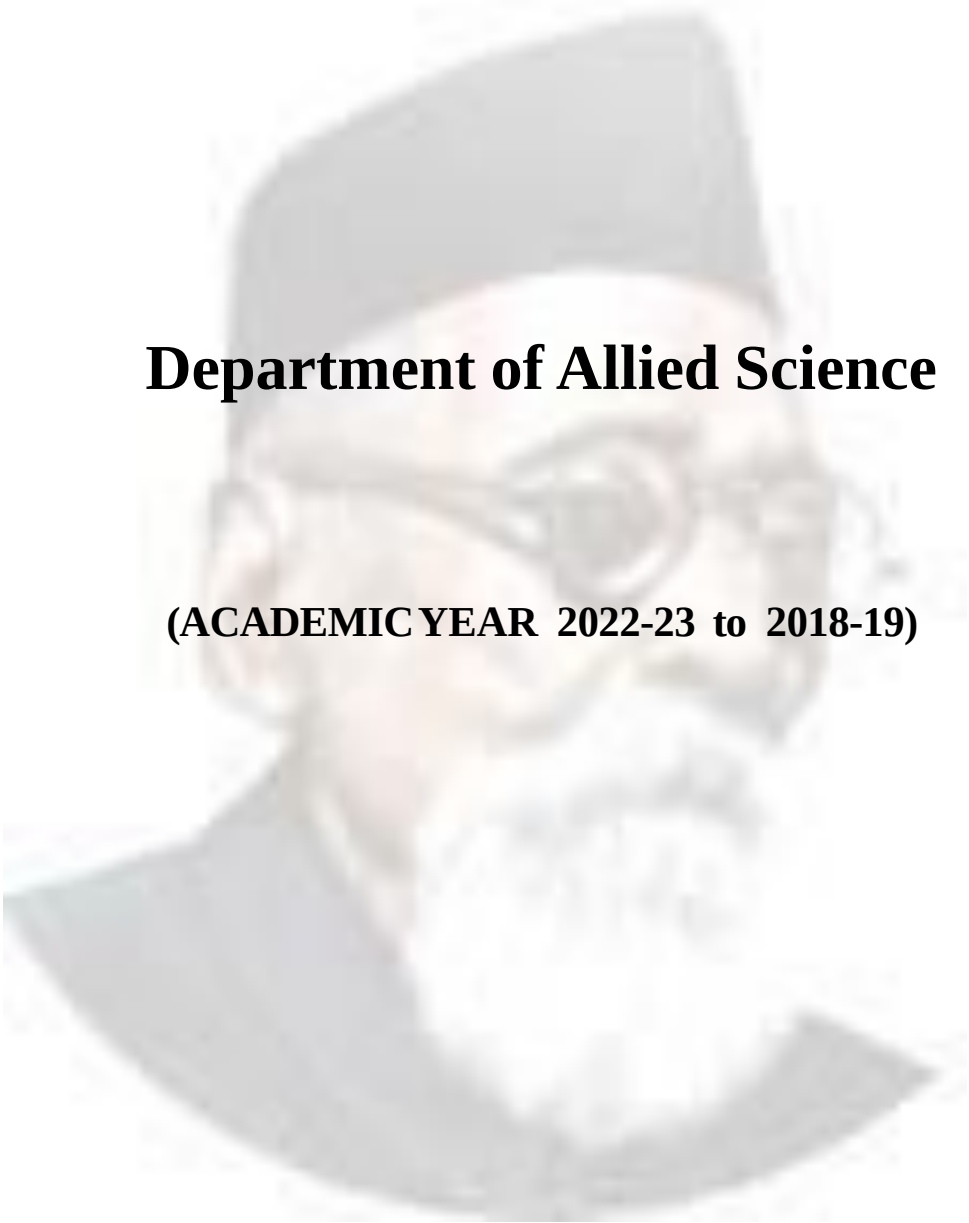
the institute throughout. Laboratory manuals are prepared in advance. Laboratory procurements are done before the semester to ensure availability of equipments for the practicals. The college gives special importance to students' projects. Project Standard operating Practices is conveyed to students before topic finalization. Project Topics are selected before the start of semester and project guides are allotted as per their specialization. Synopsis submission is done by the students before the current semester. Regular project progress seminars / presentations are carried out to check the progress of the students once a month. Sessional question paper settings are done by the faculties on the basis of course outcome and Blooms Taxonomy level fulfillment. The internal examination papers are first moderated by the Head of the Department and then forwarded to the examination department for further processing. Student hour and Library/Sports hour are the special features which ensure conduction of various student activities other than teaching for the students. The college has professional society student chapters like IEEE, ISTE, IETE, ASM, CSI etc. and has various student clubs along with active NSS cell. Each of the forums has a student activity committee/office bearer who takes care of coordination of the technical and non-technical events/skill development programs. Students and faculties are also encouraged to persuade MOOCS/SWAYAM/Coursera for various courses to enhance their knowledge and skills.

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including academic calendar and conduct of continuous internal Assessment

LESSON PLAN TEACHING PLAN

(ACADEMIC YEAR 2022-23 to 2018-19)

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.



Department of Allied Science

(ACADEMIC YEAR 2022-23 to 2018-19)

Tel. No. : 9657667030 E-mail : office@cumminscollege.edu.in,
website : www.cumminscollege.edu.in
Mouje Sukli (Gupchup), Hingna, Nagpur-441110

Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women
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NAAC Accredited
Approved by AICTE, New Delhi & DTE, Mumbai
Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

Academic year

2022-23

Tel. No. : 9657667030 E-mail : office@cumminscollege.edu.in,
website : www.cumminscollege.edu.in
Mouje Sukli (Gupchup), Hingna, Nagpur-441110

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COEW/AS / 22-23

Date: 10/04/2023

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

Faculty Name: Prof. Pravin Gorantiwar

Sub: Applied Maths II | Allied Science | Year : 2022-23 | Sem:- C

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
1	10 April - 15 April	5	V	Unit 5: Finite Differences: operator E & Delta Factorial polynomial Lagrange's interpolation formula for unequal intervals of arguments	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		13-04-23		
2	17 April - 22 April	5	V	Numerical Integration: Trapezoidal rule Simpson's 1/3rd rule Simpson's 3/8th rule Difference equation with constant coefficient	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		19-04-23		
3	24 Apr - 29 Apr	5	IV	Unit4: Statistics: Fitting of a curve by method of least square: Straight line y = a+bx, Second degree parabola y = a + bx + cx2 curves of the type y = aebx , y = abx and y = axb	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856		25-04-23		
4	01 May - 06 May	5	IV	Rank correlation Coefficient of correlation and Lines of regression,	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856		04-05-23		
			I	Unit 4: Vector Calculus: Vector triple product, Product of four vectors, Scalar point function,Vector point function,	PDF Integral calculus-I						
5	08 May - 13 May	5	I	Vector differentiation, Gradient, Divergence and Curl, Directional derivatives,	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 302- 314		08-5-23		
6	15 May - 20 May	5	I	Solenoidal and Irrotational motions, Vector Integration: Line integrals and Work done	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		12-05		
7	22 May - 27 May										

Sessional- I Examination

Faculty in Charge

HOD

Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
8	29 June - 03 June	5	I	Unit 1: Integral Calculus-I: Evaluation of definite and improper Integrals: Gamma functions	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		18.05.23		
				Beta functionand their properties.							
9	05 June - 10 June	4	III	Differentiation of definite integral,	PDF Vector calculus		Higher engineering mathematics B. S. Grewal				
				Mean value, Mean square value and Root mean square value,					30.05.23		
10	12 June - 17 June	5	III	Tracing of curves (Cartesian), Applications of definite integrals to find length of curve	PDF Vector calculus		Higher engineering mathematics B. S. Grewal				
				area, volume							
				surface area of solids of revolution (Cartesian, Polar and Parametric curves)					02.06.23		
11	19 June - 24 June	5	II	Unit 2: Multivariable Calculus (Integration): Multiple Integration: Double integrals (Cartesian and Polar),	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219				
				Change of order of integration in double integrals,					06.06		
12	26 June - 01 July	5	II	Change of variables (Cartesian to Polar)	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219				
				Elementary triple integrals.							
				Applications: Area, Mass, Volume							
				Center of Gravity (constant and variable densities)					22.06.23		
2	10 July - 15 July	5		Sessional- II Examination							

Sub. Teacher

Ac

ty in Charge

HOD

Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

OEW/AS / 22-23

Date: 05/04/2023

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

ulty Name: Prof. Sneha Uttarwar | Sub: Applied Maths II | Allied Science | Year : 2022-23 | Sem:- II

EEK lo.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
1	10 April - 15 April	5	V	Unit 5: Finite Differences: operator E & Delta	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		10/04		
				Factorial polynomial					11/04		
				Lagrange's interpolation formula for unequal intervals of arguments					13/04		
2	17 April - 21 April	5	V	Numerical Integration: Trapezoidal rule	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		13/04		
				Simpson's 1/3rd rule					17/04		
				Simpson's 3/8th rule					17/04		
				Difference equation with constant coefficient					20/04		
3	24 April - 29 April	6	IV	Unit4: Statistics: Fitting of a curve by method of least square: Straight line y = a+bx,	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856		21/04		
				Second degree parabola y = a + bx + cx2					24/04	Assi-I	
				curves of the type y = aebx , y = abx and y = axb					27/04		
4	2 May - 6 May	5	IV	Rank correlation	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856		03/05		
				Coefficient of correlation and Lines of regression,					03/05		
			I	Unit 4: Vector Calculus: Vector triple product, Product of four vectors, Scalar point function,Vector point function,	PDF Integral calculus-I				06/05		
5	8 May - 12 May	5	I	Vector differentiation, Gradient,	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 302- 314		12/05		
				Divergence and Curl,					15/05		
				Directional derivatives,					17/05	Assi - II	
6	15 May - 20 May	6	I	Solenoidal and Irrotational motions,	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		18/05		
				Vector Integration: Line integrals and Work done					20/05		
7	22 May - 29 May			Sessional- I Examination							

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Cummins College of Engineering for Women, Hingna, Nagpur-441110

Dr. Milind Khanapurkar
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Hingna, Nagpur-441110.

EEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
8	30 May - 3 June	5	I	Unit 1: Integral Calculus-I: Evaluation of definite and improper Integrals: Gamma functions	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		29/05		
				Beta functionand their properties.					01/06		
9	5 June - 9 June	5	III	Differentiation of definite integral,	PDF Vector calculus		Higher engineering mathematics B. S. Grewal		02/06		
				Mean value, Mean square value and Root mean square value,					03/06		
10	12 June - 17 June	6	III	Tracing of curves (Cartesian), Applications of definite integrals to find length of curve	PDF Vector calculus		Higher engineering mathematics B. S. Grewal		05/06		
				area, volume					9/06		
				surface area of solids of revolution (Cartesian, Polar and Parametric curves)					13/06		
11	19 June - 23 June	5	II	Unit 2: Multivariable Calculus (Integration): Multiple Integration: Double integrals (Cartesian and Polar),	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219		15/06		
				Change of order of integration in double integrals,					16/06	Assi-III	
12	26 June - 1 July	5	II	Change of variables (Cartesian to Polar)	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219		17/06		
				Elementary triple integrals.					18/06		
12	3 July - 7 July	5	II	Applications: Area, Mass, Volume					21/06		
				Center of Gravity (constant and variable densities)					23/06		
12	10 july to 15 July	5		Sessional- II Examination							

Sub. Teacher

Ac

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HOD

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
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CCOEW/AS / 22-23

Date: 04/04/2023

LESSON & TEACHING PLAN for ~~Applied Mathcal~~ AEM

Department of Allied Science

Faculty Name: Dr Sanjivani shastri						Sub: Advanced Engineering Materials		Allied Science	Year : 2022-23		Sem:- II
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	HoD's sign
1	10-15 April	5	I	Free electron theory of metals	unit 1 _1		AEM by Das Ganu Prakashan (Page 1-30)A textbookofEngineering Physics (506-526)Edition 2009		11-4-23		
				Expression for conductivity , classification on the basis of band diagram					12-4-23		
				Fermi energy and fermi level					15-4-23		
				Types of ssemiconductors N and P type					17-4-23		
2	17-22 April	4	I	Numericals	unit 1 _2		AEM by Das Ganu Prakashan (Page 1-30)A textbookofEngineering Physics (506-526)Edition 2009		19-4-23	Assign No 1 Tutorial 1	
				Numericals							
				PN Junction diode and its characteristics					24-4-23		
				Tunnel diode and zener diode					25-4-23		
3	24-29 April 2023	5	II	LED and Phioto diode	unit2 _1		AEM by Das Ganu Prakashan (Page 32-82)A textbookofEngineering Physics (564-		26-4-23		
				Transistors					2-5-23		

Faculty in Charge

HOD

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	HoD's sign
				Transistors and their configuration			[illegible] 588)Edition 2009				
4	1-6 May2023	3	II	Hall Effect and its derivation			AEM by Das Ganu Prakashan (Page 1-30)A textbookofEngineering Physics (564-588)Edition 2009		5-5-23		GVS.
				numericals					2-5-23	Assign 2 Tutorial 2	
				Numericals					5-5-23		
5	8-13 May2023	4	IV	Quantum transitions	Unit 4_1		AEM by Das Ganu Prakashan (Page 138-166)A textbookofEngineering Physics (395-421)Edition 2009		9-5-23		
				Metasdtable state , principals of laser					10-5-23		
				Characteritics of lasser					12-5-23		
6	15-20 May2023	4	IV	optical resonator	Unit 4_2		AEM by Das Ganu Prakashan (Page 395-421)A textbookofEngineering Physics (506-526)Edition 2009		12-5-23		
				Pumping schemes	unit 4_3				17-5-23		
7	22-27 May 2023			Sessional I							
8	29May - 3 June	5	IV	Ruby and He Ne laser	Unit 4_3		AEM by Das Ganu Prakashan (Page 138-166)A textbookofEngineering Physics (506-526)Edition 2009		17-5-23		
				Appluications of laser	Unit 4_3				19/5/23	Assignment 3 Tutorial 3	
				Numericals			AEM by Das Ganu Prakashan (Page 83				

GVS

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Kmilind

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Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	HoD's sign
9	5-10 June 2023	4	III	Numericals			111)A textbookofEngineering Physics (608-664)Edition 2009		5-6-23		GAS
				Magnetic mterials -dia para feri amnti fero and domain theory	Unit 3_1				6-6-23		
10	12-17 June 2023	5	III	Hysteriys curve, characteristics of magnetic materials	Unit 3_2		AEM by Das Ganu Prakashan (Page 83-111)A textbookofEngineering Physics (608-664)Edition 2009		9-6-23		
				Numericlas					12-6-23		
				Numericals						Assign 4 Tutorial 4	GAS
11	19-24 June 2023	4	III	Basics of superonductors and their properties	Unit 3_2		AEM by Das Ganu Prakashan (Page 112-137)A textbookofEngineering Physics (608-664)Edition 2009		9-6-23		
				Meissner effect type I and type II	Unit 3_3				13-6-23		
				London Equation	Unit 3_4				17-6-23		
				BCS trheory ,Numericals	Unit 3_5				19-6-23	Assign 5 Tutorial 5	GAS
	26June - 4 July 2023	5	V	Nano science and its classification	unit 5_1		AEM by Das Ganu Prakashan (Page 167-180)		31-5-23		
				Synthesis and properties of nano materials	unit 5_2				31-5-23		
				Zeolite and graphite	unit 5_2				31-5-23		
13				Applications of nano materials	unit 5_2				31-5-23		
14	10-15 July 2023	4		Sessional II							

GAS
Sub. Teacher

GAS
HOD

Faculty in Charge

MAE's Cummins College of Engineering for Women Hingna, Nagpur-441110

Kmlind
Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

Lab Practicals Plan Sem. II

Date: 10/4/2023

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR									
Faculty Name: Dr. Asha H. Gedam			Subject: Energy & environment (EE)			for	Department: Allied science		Section: B
			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Parameter extraction from V-I characteristics of PN junction diode					11-4-23	11-4-23	10	GVS
2	Parameter extraction from V-I characteristics of Zener diode.					30-5-23	30-5-23	5	GVS
3	Parameter extraction from V-I characteristics of PNP/NPN transistor in CB mode					25-4-23	2-5-23	10	GVS
4	Parameter extraction from V-I characteristics of PNP/NPN transistor in CE mode.					25-4-23	2-5-23	5	GVS
5	V-I Characteristics of Light Emitting Diodes.					13-6-23	13-6-23	5	GVS
6	Energy gap of semiconductor /thermistor					6-6-23	6-6-23	5	GVS
7	Study of Diode rectification					—	—	—	
8	Laser source: Determination of wavelength by diffraction grating.					18-4-23	18-4-23	10	GVS

GVS

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CCOEW/AS / 22-23

Date: 10/ 4 / 2023

LESSON & TEACHING PLAN for Advanced Engineering Materials

Department of Allied Science

Faculty Name:Dr Shubhangi Bompilwar | Sub:Advanced Engineering Materials | Sec: B | Year : 2022-23 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10-15 April 23	3	I	***Band Theory of Solids*** : Basic idea of free electron theory of metals ;classical and quantum		A testbook of Engineering physics (page number 506-526)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		10/4		
				Expression of conductivity of a metal. Drift velocity, mean free path				12/4		
				Formation of energy bands in SolidsClassification of solids on the basis of	B.S. PPT			15/4		
2	17-21 April 22	4		Band structure of Conductors, Semiconductors and Insulators,				17/4		
				concept of Fermi energy and Fermi level.Concept of effective mass,				20/4		
				F-D distribution function and its derivation				20/4		
				Numericals	Board activity			21/4		
3	24-29 April 23	4	II	***Semiconductor Devices:*** Basics of Semiconductor, conduction process		A testbook of Engineering physics,M N Avadhanulu (page number 527- 607)		24/4/23		
				characteristics of P-N junction Diode:				25/4	26/4/23	
				„Tunnel Diode, Zener Diode,				25/4		
				, LED, Photodiode.				25/4		
				diode as half wave rectifier and full wave rectifier				5/5/23		

Faculty in Charge

HOD

AC

Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	2–6 May 23	3		Transistors		PP. 527-607	3/5			
				transistor as an amplifier						
				.Hall effect, Hall voltage and Hall coefficient;			5/5		2nd Ass.	
5	8-12 May 23	4		applications of Hall Effect			5/5		9/5/2023	
				Numericals			26/4			
				Numericals			6/5			
	15-20 May 23	4	III	***Magnetic and Superconducting Materials:*** ***In*** troduction to magnetic materials, magnetic field,		A testbook of Engineering physics,M N Avadhanulu (page number 608- 664)	19/5			
				magnetic dipole moment, magnetic induction,magnetization, magnetic susceptibility, magnetic permeability,			19/5			
				Diamagnetic, Paramagnetic, Ferromagnetic, curie law			29/5			
				Ferri-magnetic and anti ferromagnetic materials:			29/5			
7	22 May -29 May 23	Sessional I								
	1-3 June	3		Properties of mag. Materials						
				Hysteresis curve, Applications of magnetic materials			30/5			
				Superconductors: Basics of superconductivity: Zero electrical resistance			31/5/23			
8			III	Persistent current Effect of Temperature, Effect of Magnetic Field, Critical Current;		A testbook of Engineering physics,M N Avadhanulu (page number 608- 664)	31/5/23			

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Faculty in Charge

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Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WT K No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	nk for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	5-9 june 23	4		The Meissner Effect.Type-I and type-II superconductors, London Equation:				2|6|23		
				The penetration depth, Bardeen-Cooper-Schrieffer (BCS) theory.				3|6		
				numericals				30|5		
9	12-17 June	4	IV	Numericals				3|6, 5|6	3rd Ass. 15 June 2023	
				Lasers: Quantum Transitions: Absorption, Spontaneous emission & stimulated Emission,				10|5		
				Coherence length and coherence time,Metastable states, Principle of laser				11|5		
				Pumping schemes: Three level and Four level. Optical cavity				12|5		
10	19–23 June 23	4		Characteristics and applications of lasers	Q-A.	A testbook of Engineering physics,M N Avadhanulu (page number 395- 421)				
				Construction & working of Ruby laser and He-Ne laser,				17|5		
				Numericals				15|5		
				Numericals				17|5		
11	26-30 June 23	4		**Nanoscience and Nanomaterials**				16|6		
				Introduction to Nanoscience, Classification of nano materials,				16|6		
				Comparison of properties of nanomaterials with bulk materials,				17|6		
				Zeolites, 2) Graphine, Application of nanomaterials in engineering				19|6, 21|6		

Faculty in Charge *Sub. Teacher* ~~HOD~~ Ac

MKSSS's Cummins College of Engineering for Women, Hingna, Nagpur-441110

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Principal
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Cummins College of Engineering for Women
Hingna, Nagpur-441110.

Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Lab Practicals Plan

CCOEW/ Department of Allied Science 2022-23

Dr.S.Bompilwar				Advanced Engineering Materials					Department: AS							
				Batch A2			Batch C2			Batch A1			Batch C1			
Pr. No.	Name of experiment	Lab ID	Possible variati	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva	AC's Remark
print	print			print	fill	fill	print	fill	fill	print	fill	fill	print	fill	fill	
1	Parameter extraction from V-I characteristics of PN junction diode.			10/4/2023	17/4	—	18/4/2023	18/4	—	12/4/2023	12/4	—	13/4/23	13/4	—	
2	Laser source: Determination of wavelength by diffraction grating			17/4/23	10/4	—	25/4/23	25/4	—	19/4/23	19/4	—	20/4/23	20/4	—	
3	Parameter extraction from V-I characteristics of Zener diode.			24/4/23	15/5		2/5/2023	6/5	—	26/4/23	10/5	—	27/4/23	27/4	—	
4	Parameter extraction from V-I characteristics of PNP/NPN transistor in CE mode			8/5/2023	8/5	—	9/5/2023	9/5	—	10/5/2023	26/4	—	11/5/2023	27/4	—	
5	Parameter extraction from V-I characteristics of PNP/NPN transistor in CB mode			15/5/23	24/5	—	16/5/23	2/5	—	17/5/23	3/5	—	18/5/23	4/5	—	
6	V-I Characteristics of Light Emitting Diodes.			5/6/2023	29/5	—	6/6/2023	30/5	—	7/6/2023	31/5	—	8/6/2023	1/6	—	
7	~~Study of half wave and full~~ wave Diode ~~rectification~~ Bridge rectifier			12/6/2023	5/6	—	13/6/23	19/6	—	14/6/23	7/6	—	15/6/23	15/6	—	

Sub. Teacher

Ac

Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

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CCOEW/Allied Science/ 22-23

LESSON & TEACHING PLAN for Energy and environment

Department of Allied Science

Faculty Name: Dr. A. Gedam & Dr. S. Chavan					Sub: Applied Chemistry	Section-A/B/C	Year : 2022-23		Sem:- II
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	10-15 Apr	5	4	Green Chemistry:- Introduction, Twelve principles of Green chemistry with examples, Numerical based on atom economy		(1) Applied Chem S. Chand page no. 155-181 (2) Das Ganu Prakashan	11/4/23 12/4/23 13/4/23		
2	17-22 Apr	5	4	Carbon sequestration & Carbon Credits, □ Green reagents, Dimethyl carbonate and its applications, □ Supercritical CO2 properties and applications, uses and applications of biopolymers – polyadipic acid and polycaprolactum.		(1) Applied Chem S. Chand page no. 155-181 (2) Das Ganu Prakashan page no. 152-175	18/4/23 19/4/23 20/4/23 21/4/23		
3	24-29 Apr	5	5	Importance of Hardness and Alkalinity of water. Industrial Water Treatment: Softening of water-principle, reactions, advantages, limitations and comparison of Zeolite process and De mineralization process.		(1) Applied Chem S. Chand page no. 182-221 (2) Das Ganu Prakashan page no. 176-202	25/4/23 26/4/23 27/4/23 28/4/23		

Faculty in Charge

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Dr. Milind Khanapurkar
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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
4	1-6 May	5	5	Numerical based on Zeolite process. □ Boiler Troubles - (causes, effect on boiler operation and methods of prevention) -Scales and sludges, Caustic embrittlement.		(1) Applied Chem S. Chand page no. 182-221 (2) Das Ganu Prakashan page no. 176-202	2/5/23 3/5/23 4/5/23		
5	8-13 May	5	5	Desalination of sea water- Principle methods and advantages of electro dialysis and reverse osmosis processes □ Waste Water Treatment (introduction and importance) - Water treatment from biological waste water to clean water production, Membrane bio reactors.		(1) Applied Chem S. Chand page no. 182-221 (2) Das Ganu Prakashan page no. 176-202	5/5/23 10/5/23 10/5/23 16/5/23	5/5/23	
6	15-20 May	5	2	Definition & basic equation of internal energy and enthalpy □ Numerical on internal energy, enthalpy change (Hess's Law) □ Second law of Thermodynamics, reversible and irreversible reactions □ Role or use of Gibbs free energy in a) chemical equilibrium, b) oxidation reduction		(1) Applied Chem S. Chand page no. 56-102 (2) Das Ganu Prakashan page no. 65-85	17/5/23 18/5/23 19/5/23	18/5/23	
6	22-29 May		Sessional 1						
7	30May-3 June	5	2	Corrosion- Definition, Causes, theories of corrosion- dry, wet and differential aeration.		(1) Applied Chem S. Chand page no. 56-102	29/5/23 31/5/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				Numerical on Pilling Bedworth Rule □ Types of corrosion- pitting, inter granular, and stress corrosion □ Prevention and control of corrosion- design and material selection, cathodic protection.		(2) Das Ganu Prakashan page no. 86-112	31/5/23 2/5/23		
8	5-10 June	5	1	Periodic properties :- Effective Nuclear charge, electronegativity and polarizability □ Numerical on Slater's Rule □ Atomic, molecular structure:- Atomic and Molecular orbitals. Molecular Orbital Theory and Energy level diagrams of homo diatomic molecules (Hydrogen to Fluorine) and hetero diatomic molecules, NO, NO+, NO and HF.		(1) Applied Chem S. Chand page no. 1-55 (2) Das Ganu Prakashan page no. 01-64	5/6/23 6/6/23 7/6/23 9/6/23	7/6/23	
9	12-17 June	5	1	Crystal field theory and the energy level diagrams for transition metal ions and their magnetic properties (tetrahedral and Octahedral complexes).		(1) Applied Chem S. Chand page no. 1-55 (2) Das Ganu Prakashan page no. 01-64	12/6/23 13/6/23 15/6/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
	19-24 June	5	3	Principles of spectroscopy and selection rules (Electronic Spectra of Transition Metal Complexes) ☑ Electronic spectroscopy- basic principles, Lambert-Beer's law, Woodward Fisher Rule for conjugated dienes. ☑ Numerical on Lambert-Beer's Law ☑ Numerical on Woodward Fischer Rule		(1) Applied Chem S. Chand page no. 103-154 (2) Das Ganu Prakashan page no. 113-151	19/6/23 20/6/23 21/6/23 ~~24/6/23~~		
	26-30 June	5	3	Fluorescence, Phosphorescence, Jablonski Diagram and its applications. ☑ Nuclear magnetic resonance - basic principle, chemical shift, spectral interpretation of some simple compounds and magnetic resonance imaging.		(1) Applied Chem S. Chand page no. 103-154 (2) Das Ganu Prakashan page no. 113-151	21/6/23 22/6/23 22/6/23 23/6/23		
12	10-15 July	Sessional II							

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Lab Practicals Plan Sem. II

Date: 10 / 04 / 23

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR									
Faculty Name: Dr. Asha Gedam			Subject: Applied Chemistry (AC)			for	Department: Allied science		Section: B
			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print	possible Variations		fill	fill	print	fill	fill	fill
1	To determine hardness of water	print	19-Apr-23	19/4/23	1	17-04-2023	17/4/23	1	
2	To determine type & extent of alkalinity of the given water sample		26-Apr-23	26/4/23	1	24-04-2023	24/4/23	1	
3	To estimate free chlorine in the water sample by iodometry		03-May-23	3/5/23	1	08-05-2023	8/5/23	1	
4	To estimate dissolved oxygen in given water sample		10-May-23	10/5/23	1	15-05-2023	15/5/23	1	
5	To prepare molar, normal & percent solution		31-May-23	31/5/23	1	05-06-2023	5/6/23	1	
6	To synthesize a drug 'phenytoin'		07-Jun-23	7/6/23	1	12-06-2023	12/6/23	1	

Sub. Teacher

AC

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CCOEW/Allied Science/ 22-23

LESSON & TEACHING PLAN for Energy and environment

Department of Allied Science

Faculty Name: Dr. A. Gedam & Dr. S. Chavan					Sub: Applied Chemistry	Section-A/B/C	Year : 2022-23		Sem:- II
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	10-15 Apr	5	4	Green Chemistry:- Introduction, Twelve principles of Green chemistry with examples, Numerical based on atom economy		(1) Applied Chem S. Chand page no. 155-181 (2) Das Ganu Prakashan	11/4, 12/4, 13/4, 15/4, 18/4, 19/4	3/5/23	
2	17-22 Apr	5	4	Carbon sequestration & Carbon Credits, □ Green reagents, Dimethyl carbonate and its applications, □ Supercritical CO2 properties and applications, uses and applications of biopolymers – polyadipic acid and polycaprolactum.		(1) Applied Chem S. Chand page no. 155-181 (2) Das Ganu Prakashan page no. 152-175	20/4, 24/4 24/4/23	3/5/23	
3	24-29 Apr	5	5	Importance of Hardness and Alkalinity of water. Industrial Water Treatment: Softening of water-principle, reactions, advantages, limitations and comparison of Zeolite process and De mineralization process.		(1) Applied Chem S. Chand page no. 182-221 (2) Das Ganu Prakashan page no. 176-202	25/4, 26/4 27/4, 29/4, 3/5	2/5/23	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
4	1-6 May	5	5	Numerical based on Zeolite process. □ Boiler Troubles - (causes, effect on boiler operation and methods of prevention) -Scales and sludges, Caustic embrittlement.		(1) Applied Chem S. Chand page no. 182-221 (2) Das Ganu Prakashan page no. 176-202	3/5/23 4/5, 8/5/23	20/5/23	
5	8-13 May	5	5	Desalination of sea water- Principle methods and advantages of electro dialysis and reverse osmosis processes □ Waste Water Treatment (introduction and importance) - Water treatment from biological waste water to clean water production, Membrane bio reactors.		(1) Applied Chem S. Chand page no. 182-221 (2) Das Ganu Prakashan page no. 176-202	10/5/23 11/5/23	20/5/23	
6	15-20 May	5	2	Definition & basic equation of internal energy and enthalpy □ Numerical on internal energy, enthalpy change (Hess's Law) □ Second law of Thermodynamics, reversible and irreversible reactions □ Role or use of Gibbs free energy in a) chemical equilibrium, b) oxidation reduction		(1) Applied Chem S. Chand page no. 56-102 (2) Das Ganu Prakashan page no. 65-85	31/5/23 5/6/23	5/6/23	
6	22-29 May		Sessional 1						
7	30May-3 June	5	2	Corrosion- Definition, Causes, theories of corrosion- dry, wet and differential aeration.		(1) Applied Chem S. Chand page no. 56-102	15/5, 16/5 17/5, 18/5		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				Numerical on Pilling Bedworth Rule □ Types of corrosion- pitting, inter granular, and stress corrosion □ Prevention and control of corrosion- design and material selection, cathodic protection.		(2) Das Ganu Prakashan page no. 86-112	16/5/23 29/5/23 30/5/23		
8	5-10 June	5	1	Periodic properties :- Effective Nuclear charge, electronegativity and polarizability □ Numerical on Slater's Rule □ Atomic, molecular structure:- Atomic and Molecular orbitals. Molecular Orbital Theory and Energy level diagrams of homo diatomic molecules (Hydrogen to Fluorine) and hetero diatomic molecules, NO, NO+, NO and HF.		(1) Applied Chem S. Chand page no. 1-55 (2) Das Ganu Prakashan page no. 01-64	6/6/23 7/6/23 8/6/23 12/6/23 13/6/23		
9	12-17 June	5	1	Crystal field theory and the energy level diagrams for transition metal ions and their magnetic properties (tetrahedral and Octahedral complexes).		(1) Applied Chem S. Chand page no. 1-55 (2) Das Ganu Prakashan page no. 01-64	15/6/23 17/6/23	19/6/23	

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AC

~~HOD~~

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
	19-24 June	5	3	Principles of spectroscopy and selection rules (Electronic Spectra of Transition Metal Complexes) ☐ Electronic spectroscopy- basic principles, Lambert-Beer's law, Woodward Fisher Rule for conjugated dienes. ☐ Numerical on Lambert-Beer's Law ☐ Numerical on Woodward Fischer Rule		(1) Applied Chem S. Chand page no. 103-154 (2) Das Ganu Prakashan page no. 113-151	19/6/23 20/6/23		
	26-30 June	5	3	Fluorescence, Phosphorescence, Jablonski Diagram and its applications. ☐ Nuclear magnetic resonance - basic principle, chemical shift, spectral interpretation of some simple compounds and magnetic resonance imaging.		(1) Applied Chem S. Chand page no. 103-154 (2) Das Ganu Prakashan page no. 113-151	21/6/23 22/6/23		
12	10-15 July	Sessional II							

Sub. Teacher

AC

Faculty in Charge

HOD

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Lab Practicals Plan Sem. II

Date: 10 / 04 / 23

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR									
Faculty Name: Dr. Snehal Chavan			Subject: Applied Chemistry (AC)			for	Department: Allied science		Section: A
			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print	possible Variations used		fill	fill	print	fill	fill	fill
1	To determine hardness of water	print	20-Apr-23	20/4/23		18-04-2023	18/4/23		
2	To determine type & extent of alkalinity of the given water sample		27-Apr-23	27/4/23		25-04-2023	25/4/23		
3	To estimate free chlorine in the water sample by iodometry		04-May-23	4/5/23		02-05-2023	2/5/23		
4	To estimate dissolved oxygen in given water sample		11-May-23	1/6/23		09-05-2023	30/5/23		
5	To prepare molar, normal & percent solution		01-Jun-23	11/5/23		30-05-2023	9/5/23		
6	To synthesize a drug 'phenytoin'		08-Jun-23			06-06-2023			

Sub. Teacher

AC

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CCOEW/AS/2022-2023

Date: 10/04/2023

LESSON & TEACHING PLAN for Computational skills

Department of Allied Science								
Faculty Name: Prof. Avantika Wadaskar					Sec: A	Year : 2022-23		Sem:- II
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	10 April - 15 April	3	I	Introduction to Computer components : Internal structure of computer System	The complete reference C fourth edition by herbert Schildt, 6-65 & Computational skills (Allience & Co.)	11/4/23 13/4/23		
				Introduction to Computer Hardware and software		15/4/23		
2	17 April - 22 April	3		Introduction to Programming Language:-Idea of Algorithm-steps to solve logical and numerical problems		18/4/23 20/4/23		
				Representation of algorithm:-flowchart / psuedo code with examples		25/4/23		
3	24 April - 29 April	3		From Algorithm to program:-source code, variables and memory locations		25/4/23 27/4/23		
				Errors in C Programming -Syntax, Semantic, Runtime, Linker and logical errors in compilation		29/4/23 2/5/23		
	1 May - 6			Compilation in C : Object and executable code, Arithmetic expression and precedence		2/5/23 4/5/23	Assig-nment 1	

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4	May	3	II	Fundamentals of C programming : Basic Structure of C program, Charcter set , Tokens, Variables, Datatypes	The complete reference fourth edition by herb Schildt, 6-65 & Computational skills (Allience & Co.)	4|5|23 6|5|23		
5	8 May - 13 May	3		Conditional selection statements : if, if..else, if..else..if ladder, switch statements		9|5|23 11|5|23		
				Conditional looping statements : while, do-while, for loop.		11|5|23 16|5|23		
6	15 May - 20 May	3		Unconditional / Jump statements : break, Continue, go-to statements		18|5|23	Assign-2	
				Arrays : 1 Dimensional Array, 2 dimensional array		20|5|23 30|5|23		
22 May - 29 May Sessional - I								
7	22 May - 27 May	3	II	Character Arrays, String arrays		1|6|23		
				Searching Algorithm : Linear and Binary search		3|6|23		
8	29 May - 3 June	3		Sorting Algorithm (Bubble, Insertion and Selection)	The complete reference fourth edition by herb Schildt, 96-147 & Computational skills (Allience & Co.)	6|6|23		
			III	Introduction to functions (built in functions)		8|6|23	Ass1-3	
9	5 June - 10 June	3		Parameter passing in Function		13|6|23		
				call by value and call by reference		15|6|23		
10	12 June - 17 June	3		Introduction to Recursion : Recursion Examples		17|6|23		
			IV	Introduction to structures : Defining Structure	The complete reference fourth edition by herb Schildt,151-205 & Computational	17|6|23		
11	19 June - 24 June	3		Array of structures, Introduction to pointers		20|6|23		
				Defining Pointers, Use of Pointers in self-referencial structure, Notion of Linked list.		22|6|23		
26 June - 1 July Sessional II								

Subject Teacher

Prof. Avantika Wadaskar

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CCOEW/CE/ 2022-2023

Lab Practicals Plan

Department of Allied Science

Computational Skill								
Prof. Avantika Wadaskar		Semester II			Year : 2022-23 (EVEN)			
Section A								
No.	Name of experiment	Planned Date	Perform Date	No. of Viva done and link for	Planned Date	Perform Date	No. of Viva done and link for	Ac's Remark
		Batch A1			Batch A2			
1	To study fundamentals of computers and operating system.	10/4/23	10/4/23	1	12/04/23	12/4/23	1	
2 a	WACP to initialize char, int and float data type.	17/4/23	17/4/23	1	19/04/23	19/4/23	1	
2 b	WACP to input two numbers and perform all arithmatic operations..	17/4/23	17/4/23	1	19/04/23	19/4/23	1	
3 a	WACP to find the largest number among the two numbers.	24/4/23	24/4/23	1	26/04/23	26/4/23	1	
3 b	WACP to check weather the number is even or odd	24/4/23	24/4/23	1	26/04/23	26/4/23	1	
4 a	WACP to print a day from the given week days by using switch statement.	8/5/23	8/5/23	1	03/05/23	3/5/23	1	

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CCOEW/AS/ 22-23 — SECTION – A — Date: 18 /04/2022

LESSON & TEACHING PLAN for Indian Culture and Constitution

Department of Allied Science

Faculty Name: Prof. Priyadarshini Ramteke | Sub: Indian Culture & Constitution | Sec: | Year : 2022-23 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	10 - 15 April	2	I	Concept of Culture & Civilization						10/4/23		
				Difference between culture and civilization						11/4/23		
				Vedic Culture & Civilization						12/4/23		
2	17 - 22 April	2		Indus valley Civilization						15/4/23		
			II	Social Engineerng						17/4/23		
				Meaning and Scope of Industrial Psychology						18/4/23		
3	24 -29 April	3		Meaning and Scope of Industrial Sociology						24/4/23		
				Recruitment of workers						26/4/23		
4	1 - 6 May	2		Selection Procedure						3/5/23		
				Training in industry						6/5/23		
5	8 - 13 May	2	III	Theories of Motivation						9/5/23		
				Sustainable Development						10/5/23		
				Social Change						15/5/23		
6	15 - 21 May	3		Concepts and styles of leaderships						17/5/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
22 May - 29 May			SESSIONAL - I									
7	29 May - 3 June	3	IV	Indian Constitution						7/6/23		
				Federal System						12/6/23		
8	5 - 10 June	2		Fundamental Rights						19/6/23		
				Directive Principles of state policy						21/6/23		
9	12- 17 June	3		Bureaucracy						Assignment		
				Industrial Democracy						20/5/23		
			V	Line Organization, Line & Staff Organization						29/5/23		
10	19 - 24 June	2		Functional Organization						31/5/23		
				Power and Status						5/6/23		
11	26 - 30 June	2		Delegation of Authority						5/6/23		
				Industrialization and Urbanization & Slums						Assignment		
10 - 15 July			Sessional II									

Sub. Teacher

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CCOEW/AS / 22-23

Date: 05/04/2023

LESSON & TEACHING PLAN for Engineering Mechanics

Department of Allied Science

Faculty Name: Dr. Shailesh Khekale | Year : 2022-23 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10 April-15 April	3	Unit I	Two dimensional Force Sysytem-Force, System of forces,Resolution of forces		Engineering Mechanics - F.I.SingerPg. No- 17-96	PPT / Video	26/4		
2	17 April-21 April	3	Unit I	Resolution of forces- Numericals,Moment-Numericals		Engineering Mechanics - F.I.SingerPg. No- 17-96	PPT / Video	5/5		
3	24 April-29 April	3	Unit I	Equilibrium of Force system- Numericals		Engineering Mechanics - F.I.SingerPg. No- 17-96	PPT / Video/ Chart	3/6		
4	02 May-6 May	3	Unit II	Equations of Equilibrium-FBD and its Numericals		Engineering Mechanics - F.I.Singer Pg. No-17-96	PPT / Video/ Chart			
5	8 May-12 May	3	Unit II	Analysis of simple pin jointed frames-Numericals		Machines - Dr. R.S. Khurmi, Pg. No- 244-321	PPT / Video	7/6		
6	15 May-20 May	3	Unit II	Friction forces-Numericals		Engineering Mechanics - F.I.Singer Pg. No- 158-187	PPT / Video/ Chart			
7	22 May - 29 may	Sessional I								
8	30 May - 3 June	3	Unit III	Cntroids and moments of inertia- Numericals		Engineering Mechanics - F.I.Singer Pg. No- 190-241	PPT / Video	7/6		

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CCOEW/AS / 22-23

Date: 05/04/2023

LESSON & TEACHING PLAN for Engineering Mechanics

Department of Allied Science

Faculty Name: Dr. Shailesh Khekale | Year : 2022-23 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
9	5 June - 9 June	3	Unit III	Moments of Inertia -Numericals		Engineering Mechanics - F.I.Singer Pg. No- 190-241	PPT / Video	19/6		
10	12 June - 17 June	3	Unit IV	Introduction to virtual work theorem,D'Alembert's Principle		Engineering Mechanics - F.I.Singer Pg. No- 287-295	PPT / Video			
11	19 June - 23 June	3	Unit IV	Work Energy method- Numericals		Engineering Mechanics - F.I.Singer Pg. No- 536-580	PPT / Video	23/6		
12	26 June- 28 June	3	Unit IV	Methods of momets-Numericals		Engineering Mechanics - F.I.Singer Pg. No- 243-259	PPT / Video			

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CCOEW/AS / 22-23

Date: 21/11/2022

LESSON & TEACHING PLAN for Applied Maths-I

Department of Allied Science

Faculty Name: Prof. Pravin Gorantiwar | Allied Science | Year : 2022-23 | Sem:- I (Sec C)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT Tools	Completion Date	Assignment/ Tutorial Date	AC's sign
1	21 Nov22 26 Nov22	6	III	Unit 3: Matrices: Introduction		B.S. Grewal, Higher Engineering Mathem				
				Inverse of a matrix by Partitioning method						
				Rank of a matrix				28-11-2022		
2	28 Nov22 03 Dec22	5	III	Consistency of linear system of nonhomogeneous and Homogenous equations		B.S. Grewal, Higher Engineering Mathem				
				Symmetric, Skew-symmetric and Orthogonal matrices						
				Linear and Orthogonal transformations						
				Cayley-Hamilton theorem				01-12-2022	03-12-2022	
3	05 Dec22 10 Dec22	5	I	Unit 1: Differential Calculus Successive differentiation: Leibnitz's Rule		B.S. Grewal, Higher Engineering Mathem				
				Taylor's and Maclaurin's series for function of one variable				08-12-2022		
4	12 Dec22 17 Dec22	6	I	Indeterminate forms and L'Hospital's Rule		D. T. Deshmukh, Higher Engineering Mathematics				
				Maxima and Minima for function of one variable.				19-12-2022		
5	19 Dec22 24 Dec22	5	II	Unit 2: Multivariable Calculu Differentiation Functions of several variables		D. T. Deshmukh, Higher Engineering Mathematics				
				First and Higher order partial derivatives		D. T. Deshmukh, Higher Engineering Mathematics				
				Euler's theorem				03.01.23		
6	26 Dec22 31 Dec22	Sessional - I Examination								
				Chain rule and Total differential coefficient						
				Jacobians,						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT Tools	Completion Date	Assignment/ Tutorial Date	AC's sign
7	07 Jan23	6	II	Taylor's and Maclaurin's series for function of two variables		D. T. Deshmukh, Higher Engineering Mathematics		•		
				Maxima and Minima for function of two variables				03-01-23		
8	09 Jan23 14 Jan23	6	II	Lagrange's method of undetermined multipliers		D. T. Deshmukh, Higher Engineering Mathematics				
			IV	Unit 4: First Order Ordinary Differential Equations Exact differential equations				~~27-02-2022~~ 04-01-23	22-12-22	
9	09 Jan23 14 Jan23	5	IV	Linear and Bernoulli's equation		B.S. Grewal, Higher Engineering Mathem				
				Equations of first order and higher degree: Solvable for p, y, x and Clairaut's type				~~01-03-2022~~ 06-01-22		
10	16 Jan - 21 Jan	5	IV	Application of first order differential equation to simple electrical circuits		B.S. Grewal, Higher Engineering Mathem				
			V	Unit 5: Higher Order Ordinary Differential Equations Higher order ordinary linear differential equations with constant coefficients				09-01-23		
		5	V	Method of variation of parameters,		B.S. Grewal, Higher Engineering Mathematics				
				Cauchy's and Legendre's homogeneous differential equations.						
				Simultaneous differential equations, Equations of the type d2y/dx2=f(x) and d2y/dx2=f(y)						
				Applications of higher order differential equations to simple electrical circuits				20-01-23	15-01-22	
12	23 Jan- 30 Jan	5	V	Sessional - I Examination						

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CCOEW/AS / 22-23

Date: 21/11/2022

LESSON & TEACHING PLAN for Applied Maths-I

Department of Allied Science

Faculty Name: Prof. Sneha Uttarwar | Allied Science | Year : 2022-23 | Sem:- I (sec A)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT Tools	Completion Date	Assignment/ Tutorial Date	AC's sign
1	21 Nov22 26 Nov22	6	III	Unit 3: Matrices: Introduction		B.S. Grewal, Higher Engineering Mathem		21/11		
				Inverse of a matrix by Partitioning method						
				Rank of a matrix				26/11		
2	28 Nov22 03 Dec22	5	III	Consistency of linear system of nonhomogeneous and Homogenous equations		B.S. Grewal, Higher Engineering Mathem		23/11		
				Symmetric, Skew-symmetric and Orthogonal matrices						
				Linear and Orthogonal transformations				01/12		
				Cayley-Hamilton theorem				03/12	05/12	
3	05 Dec22 10 Dec22	5	I	Unit 1: Differential Calculus Successive differentiation: Leibnitz's Rule		B.S. Grewal, Higher Engineering Mathem		05/12	~~Tutorial 1~~	
				Taylor's and Maclaurin's series for function of one variable				10/12	~~Assignment 1~~	
4	12 Dec22 17 Dec22	6	I	Indeterminate forms and L'Hospital's Rule		D. T. Deshmukh, Higher Engineering Mathematics		12/12	07/12	
				Maxima and Minima for function of one variable.				~~19-12-2022~~ 17/1		
5	19 Dec22 24 Dec22	5	II	Unit 2: Multivariable Calculu Differentiation Functions of several variables		D. T. Deshmukh, Higher Engineering Mathematics		19/12		
				First and Higher order partial derivatives		D. T. Deshmukh, Higher Engineering Mathematics				
				Euler's theorem				24/12		
6	26 Dec22 31 Dec22			Sessional - I Examination						
				Chain rule and Total differential coefficient				26/12		
				Jacobians,				29/12		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT Tools	Completion Date	Assignment/ Tutorial Date	AC's sign
7	07 Jan23	6	II	Taylor's and Maclaurin's series for function of two variables		D. T. Deshmukh, Higher Engineering Mathematics		02/01/23		
				Maxima and Minima for function of two variables				03/01		
8	09 Jan23 - 14 Jan23	6	II	Lagrange's method of undetermined multipliers		D. T. Deshmukh, Higher Engineering Mathematics		05/01		
			IV	Unit 4: First Order Ordinary Differential Equations Exact differential equations				06/01		
9	09 Jan23 - 14 Jan23	5	IV	Linear and Bernoulli's equation		B.S. Grewal, Higher Engineering Mathem		07/01		
				Equations of first order and higher degree: Solvable for p, y, x and Clairaut's type				10/01		
10	16 Jan - 21 Jan	5	IV	Application of first order differential equation to simple electrical circuits		B.S. Grewal, Higher Engineering Mathem		11/01		
			V	Unit 5: Higher Order Ordinary Differential Equations Higher order ordinary linear differential equations with constant coefficients				13/01		
		5	V	Method of variation of parameters,		B.S. Grewal, Higher Engineering Mathematics		16/01		
				Cauchy's and Legendre's homogeneous differential equations.				17/01		
				Simultaneous differential equations, Equations of the type d2y/dx2=f(x) and d2y/dx2=f(y)				20/01		
				Applications of higher order differential equations to simple electrical circuits				23/01		
12	23 Jan- 30 Jan	5	V	Sessional - I Examination						

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CCOEW/Allied Science/ 22-23

LESSON & TEACHING PLAN for Energy and environment

Department of Allied Science

Faculty Name: Dr. Sanjivani Shastri					Sub: AP	Section-A, C	Year : 2022-23		Sem:- I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	HoD's Sign
1	21 Nov - 26 Nov	4	1	Crystal structure, Meaning of lattice and basis, Unit cell: primitive and non primitive unit cell; Cubic crystal structure: Simple, Body and Face centered cubic structures, Unit cell characteristics: Effective number of atoms per unit cell, atomic radius, nearest neighbor distance, coordination number, atomic packing fraction, void space, density.	Preparation of models of three types of crystal		22-11-22 25-11-22 23-11-22 23-11-22	2-12-22	GA GA GA
2	28 Nov - 3 Dec	4	1	Crystal planes and Miller indices, Inter-planar distance and its co-relation with Miller indices and lattice parameter , Bragg's law of X-ray diffraction.	Drawing of Miller planes on the black board		24-1122 28-1122		GA GA
				Optical fibers: Propagation by total internal reflection, structure and classification (based on material.	Critical angle		3-12-22		GA

Faculty in Charge GA

HOD GA

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	HoD's Sign
3	5 Dec - 10 Dec	4	2	refractive index and number of modes), Modes of propagation in fiber, Acceptance angle, Numerical aperture, Attenuation and dispersion.	with the help of glass and laser light		3-12-22 7-12-22		
4	12 Dec - 17 Dec	4	2	Light sources and Detectors, Applications of optical fiber as Sensors - i) Temperature Sensor ii) Pollution / Smoke detector iii) Liquid level sensor, Fiber optic communication system.			14-12-22 16-12-22 17-12-22	 Assignment 28-12-22	
5	19 Dec - 24 Dec	4	3	Huygen's principle, superposition of waves and interference of light by wavefront splitting and amplitude splitting, Interference in thin films, Interference in Wedge shape thin film, Newton's rings, Anti-reflection coating.	Diffraction with the help of hand		2-1-23 4-1-23 16-12-23		
6	26 Dec- 31 Dec		Sessional 1						
7	2 Jan - 7 Jan	4	3	Fraunhoffer diffraction from a single slit and a circular aperture, Diffraction grating and its resolving power.			19-12-23 23-12-23 5-1-23 4-1-23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	HoD's Sign
8	9 Jan - 14 Jan	4	4	Planck's Hypothesis, Properties of Photons, Compton Effect: Equations for energy and momentum conservation, Expression for Compton shift & its interpretation. Concept of wave- particle duality, de-Broglie Hypothesis, Matter Waves, Davisson-Germer Experiment; Bohr's Quantization condition. Wave function Ψ and normalization condition, concept of wave packets, Heisenberg Uncertainty Principle. Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite potential well	Story telling		6-1-23 9-1-23 11-1-23 13-1-23 16-1-23		GMS
9	16 Jan - 21 Jan	4	5	Basic idea of motion of charged particle in electric and magnetic fields, Velocity selector, Bethe's law of electron refraction, electric focusing, Construction & working of Electrostatic lens. Devices: Cathode Ray Tube, Cathode Ray Oscilloscope and its applications, Block Diagram, Function & working of each block, Bainbridge mass spectrograph.	Activity for persistent of vision		16-1-23 19-1-23 20-1-23	Assignment 3 Tutorial 3.	GMS
12	23 Jan-30 Jan	Sessional II							

Faculty in Charge GMS

HOD GMS

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Lab Practicals Plan Sem. I

Date: 21/11/22

Applied Physics									
Faculty Name: Dr. Sanjivani Shastri			Subject: Applied		for	Department: Allied science		Section: A & B	
			Batch A1			BatchB2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Radius of curvature of a plano convex lens by Newton's Rings		28-11-22	28-11-22		28/11/23	28/11/23		
2	Diffraction due to plane diffraction Grating		22-11-22	22-11-22		5/12/22	5/12/22		
3	Comparative study of cubic crystal structure (with the help of model)		6-12-22	6-12-22		28/12/22	28/12/22		
4	Determination of principal refractive indices of a prism		17-1-23	17-1-23		12-12-22	12-12-22		
5	Determination of e/m of an electron by bar magnet method (Thomson's method)		13-12-22	13-12-22		2-1-23	2-1-23		
6	Determination of AC and DC voltage using CRO.		20-12-22	20-12-22		9-1-23	9-1-23		
7	Calibration of Time Base circuit of CRO and determination of frequency of electrical signals		10-1-23	10-1-23		16-1-23	9-1-23		

Subject Teacher

HoD.

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women, Hingna, Nagpur-441110

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CCOEW/AS / 22-23

LESSON & TEACHING PLAN for Applied Physics

Department of Allied Science

Faculty Name:Dr. Shubhangi Bompilwar | Sub:Applied Physics | Year : 2022-23 | Sem:- I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	21-26 Nov. 2022	5	III	Introduction to crystal structure, types of solids		A testbook of Engineering physics (page number 468-505)10th Edition M N Avadhanulu and PG Kshirsagar	21/11		
				crystal structure, Bravais lattivce,unit cell			22/11		
				7 characteristice of cubic unit cells			23/11		
				7 characteristice of cubic unit cells					
2	28 nov.-3 Dec	5		Miller Indices			24/11	30/11/22	
				Interplaner distance and its relation with miller indices			24/11		
				Brsggs Law			29/11		
				numericals			30/11		
				numericals					
				Test			22/12		
3	5-10 Dec. 22	5	II	Quantum Mechanics: Planck's Hypothesis, Properties of Photons		A testbook of Engineering physics (page number 305-394)10th Edition M N Avadhanulu and PG Kshirsagar	2/1/23		
				Compton Effect: Equations for energy and momentum conservatioExpression for Compton shift & its interpretation,			3/1/23		
				Concept of wave-particle duality, de-Broglie Hypothesis			3/1/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				Matter Waves, Davisson-Germer Experiment; Bohr's Quantization condition.			4/1/2023		
				Numericals			5/1/23		
4	12-17 Dec.22	5		Wave function Ψ and normalization condition, concept of wave packets,			7/1/23		
				Heisenberg Uncertainty Principle and its applications			10,11/1/23		
				Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite potential well.			11/1/23		
				numericals			12,13/1/23		
5	19-24 Dec.22	5	I	Huygen's principle, superposition of waves interference of light by wavefront splitting and amplitude splitting,		M N Avadhanulu and PG Kshirsagar A testbook of Engineering physics (page number 105-180)10th Edition	12/12/22		
				Interference in thin films,			13/12		
				Interference in Wedge shape thin film,			14/12		
				Newton's rings, Anti-reflection coating.			15/12		
				Fraunhoffer diffraction from a single slit and a circular aperture,			17/12 21/12		
				Diffraction grating and its resolving power.			29/12		
6	26-31 Dec.22	Sessional I							
			I	Numericals			19/12		
				Numericals			29/12		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
7	2-7 Jan 23	5	IV	Optical fibers: Propagation by total internal reflection, structure		A testbook of Engineering physics (page number 698-725)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition	1|12|22		
				classification of OF			3|12		
				modes of propagation in fiber, Acceptance angle, Numerical aperture, Attenuation and dispersion.			2|12 5|12		
10				Light sources and Detectors, optical communication system			8|12		
11	9-14 Jan23	4		Applications of optical fiber as Sensors - i) Temperature Sensor ii) Pollution / Smoke detector			7|12|22		
				Numericals			2|12|22		
				Numericals		A testbook of Engineering physics (page number 70-105)10th Edition ,Atextbook of Applied physics(5.1 to 5.31) first edition	8|12		
12				Electron optics: Basic idea of motion of charged particles in electric and			17|1|23		
				Bethes law			17|1|23		
				Electrostatic lenses and its construction			18|1		
				CRT and CRO			18|19|1		
	16-21 Jan23	6	V	Bainbridge mass spectrograph			19|1|23		
				Numericals			20|1|23		

23-28 Jan 23 — Sessional II

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Lab Practicals Plan

CCOEW/ 2022-23 Department of Allied Science 2021-22

Dr.S.Bompilwar | Applied Physics | Department: AS

Pi	Name of experiment	Batch C2(Monday) Planned week	Perform Date	No. of Viva	Batch A2(Wednesday) Perform Date	No. of Viva	Batch C1(Thursday Perform Date	No. of Viva done	Batch B1(Friday) Perform Date	No. of Viva	Ac's Remark
print	print	print	fill	fill	fill	fill	fill	fill	fill	fill	
1	DETERMINATION OF WAVELENGTH OF SODIUM LIGHT USING PLANE DIFFRACTION GRATING	21-25 Nov.22	28/11/22		30/11/22		24/11/22		25/11/22		
2	DETERMINATION OF RADIUS OF CURVATURE OF PLANO-CONVEX LENS BY NEWTON'S RINGS	5-9 Dec 22	5/12		7/12/22		1/12/22		21/12		
3	DETERMINATION OF RI OF PRISM	12-16 Dec.22	19/12		14/12/22		8/12/22		9/12		
4	TO STUDY VARIOUS CRYSTAL STRUCTURES AND TO MAKE MODEL OF 3 CUBIC CRYSTAL STRUCTURES	19-23 Dec. 22	12/12/22		14/12/22		13/12/22		16/12/23		
5	DETERMINATION OF SPECIFIC CHARGE (e/m) OF AN ELECTRON BY THOMSON'S METHOD	2-7 Jan 23	2/1/23		21/12/22		15/12/22		23/12		
6	STUDY OF CATHODE RAY OSCILLOSCOPE (CRO) AND MEASUREMENT OF AC AND DC VOLTAGES	9-14 Jan 23	9/1/23		4/1/23		22/12		19/1/23		
7	DETERMINATION OF FREQUENCY OF ELECTRICAL SIGNALS USING CRO	16-21 Jan 23	9/1/23		11/1/23		12/1/23		13/1/23		

Sub. Teacher

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CCOEW/Allied Science/ 22-23

LESSON & TEACHING PLAN for Energy and environment

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam					Sub: EE	Section-A, B	Year : 2022-23		Sem:- I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	21 Nov - 26 Nov	4	1	• Basics of Energy - Introduction, sources and types of energy, Units of energy, thermal energy contents of fuel, heat capacity, sensible and latent heat, evaporation, condensation, steam, moist air and humidity & heat transfer. • Classification of fuels, Numerical based on Dulong's formula. Calorific Value (HCV & LCV). Determination of Calorific value by Bomb and Boy's Calorimeter. Solid Fuels:- Significance of Proximate and Ultimate Analysis of coal,		Energy and environment Dr.AV Bharati pg.1-42	24/12/22 25/12/22 26/12/22 26/12/22		
2	28 Nov - 3 Dec	4	1	• Numerical on Goutal's Formula for Gross Calorific Value based on Proximate Analysis • Numerical on Calorific Value determination. • Numerical on GCV & NCV by using relation formula		Energy and environment Dr.AV Bharati pg.1-42	30/12/22 01/12/22	01/12/22	
3	5 Dec - 10 Dec	4	2	Liquid Fuel:-Fractional distillation of crude oil, Catalytic cracking and its advantages • Knocking in internal combustion petrol and diesel engine, Octane and Cetane number,		Energy and environment Dr.AV Bharati pg.43-96	8/12/12 9/12/22		
4	12 Dec - 17 Dec	4	2	• Knocking and its relationship with structure of fuel, Doping agents, • Power alcohol, Gasohol, Diesehol, Aviation fuel, Bio-diesel. • Gaseous Fuel:-CNG, Hydrogen as specialised fuel • Combustion Calculations		Energy and environment Dr.AV Bharati	15/12/22 16/12/22	14/12/22	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
						pg.43-96	17/12/22		
5	19 Dec - 24 Dec	4	3	Bio-energy, Photolysis of water- Chemical Conversion of Solar Energy. • Nuclear fuels: Numerical • Fuel cells- working, advantages and disadvantages of alkaline, methanol fuel cells.		Energy and environment Dr.AV Bharati pg.97-126	19/12/22 20/12/22 22/12/22		
6	26 Dec- 31 Dec		Sessional 1						
7	2 Jan - 7 Jan	4	3	Classification of waste on the basis of segregation at source, Hazardous solid waste management technology, Incineration, Eco-friendly Incineration, landfill techniques. Utilization of Biogas and Landfill Gas for Biofuels Chemicals, gasification and Utilization of Syngas,		Energy and environment Dr.AV Bharati pg.97-126 & 164-190	2/1/23 4/1/23 5/1/23		
8	9 Jan - 14 Jan	4	4	Industrial pollution due to non-renewable energy sources and its types. Principle, processes, source of pollution. Environmental impact and its control with reference to specific industries; Nitrogen containing fertilizers- ammonia synthesis, Cement manufacturing Industry; Sulfuric acid manufacturing industry and petroleum Industry		Energy and environment Dr.AV Bharati pg.127-163	6/1/23 9/1/23 12/1/23		
9	16 Jan - 21 Jan	4	5	Introduction of Advance materials, properties and applications:- composites, liquid Crystal polymers, conducting polymers, insulating materials, adhesives, biodegradable polymers, Nanomaterials in energy- Photochemical devices like lithium ion batteries, Nanomaterials for Energy Storage, nanomaterials in solar cells.		Energy and environment Dr.AV Bharati pg.212-242	17/1/23 16/1/23 19/1/23 19/1/23		
12	23 Jan- 30 Jan		Sessional II						

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Lab Practicals Plan Sem. II

Date: 10 / 04 / 23

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Asha Gedam			Subject: Applied Chemistry (AC)			for	Department: Allied science		Section: B
			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print	possible Variations		fill	fill	print	fill	fill	fill
1	To determine hardness of water	print	19-Apr-23	19|4|23	1	17-04-2023	17|4|23	1	
2	To determine type & extent of alkalinity of the given water sample		26-Apr-23	26|4|23	1	24-04-2023	24|4|23	1	
3	To estimate free chlorine in the water sample by iodometry		03-May-23	3|5|23	1	08-05-2023	8|5|23	1	
4	To estimate dissolved oxygen in given water sample		10-May-23	10|5|23	1	15-05-2023	15|5|23	1	
5	To prepare molar, normal & percent solution		31-May-23	31|5|23	1	05-06-2023	5|6|23	1	
6	To synthesize a drug 'phenytoin' urea formaldehyde resin		07-Jun-23	7|6|23	1	12-06-2023	14|6|23	1	

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CCOEW/Allied Science/ 22-23

LESSON & TEACHING PLAN for Energy and environment

Department of Allied Science

Faculty Name: Dr. Snehal Chavan					Sub: EE	Section-C	Year : 2022-23		Sem:- I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	21 Nov - 26 Nov	4	1	• Basics of Energy - Introduction, sources and types of energy, Units of energy, thermal energy contents of fuel, heat capacity, sensible and latent heat, evaporation, condensation, steam, moist air and humidity & heat transfer. • Classification of fuels, Numerical based on Dulong's formula. Calorific Value (HCV & LCV). Determination of Calorific value by Bomb and Boy's Calorimeter. Solid Fuels:- Significance of Proximate and Ultimate Analysis of coal.		Energy and environment Dr.AV Bharati pg.1-42	21-11-22 21-11-22 23-11-22 25-11-22		
2	28 Nov - 3 Dec	4	1	• Numerical on Goutal's Formula for Gross Calorific Value based on Proximate Analysis • Numerical on Calorific Value determination. • Numerical on GCV & NCV by		Energy and environment Dr.AV Bharati pg.1-42	28-11-22 30-11-22 02-12-22		
3	5 Dec - 10 Dec	4	2	Liquid Fuel:-Fractional distillation of crude oil, Catalytic cracking and its advantages • Knocking in internal combustion petrol and diesel engine, Octane and		Energy and environment Dr.AV Bharati	5-12-22 7-12-22 9-12-22	9/12/22	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				Cetane number,		pg.43-96			
4	12 Dec - 17 Dec	4	2	• Knocking and its relationship with structure of fuel, Doping agents, • Power alcohol, Gasohol, Diesehol, Aviation fuel, Bio-diesel. • Gaseous Fuel:-CNG, Hydrogen as specialised fuel • Combustion Calculations		Energy and environment Dr.AV Bharati pg.43-96	12-12-22 14-12-22 15-12-22 16-12-22 17-12-22	23-12-22	
5	19 Dec - 24 Dec	4	3	Bio-energy, Photolysis of water-Chemical Conversion of Solar Energy. • Nuclear fuels: Numerical • Fuel cells- working, advantages and disadvantages of alkaline, methanol fuel cells.		Energy and environment Dr.AV Bharati pg.97-126	19-12-22 21-12-22 23-12-22 23-12-22		
6	26 Dec-31 Dec		Sessional 1						
7	2 Jan - 7 Jan	4	3	Classification of waste on the basis of segregation at source, Hazardous solid waste management technology, Incineration, Eco-friendly Incineration, landfill techniques. Utilization of Biogas and Landfill Gas for Biofuels Chemicals, gasification and Utilization of Syngas,		Energy and environment Dr.AV Bharati pg.97-126 & 164-190	2-1-23 4-1-23 6-1-23 9-1-23 11-1-23	20-1-23	
8	9 Jan - 14 Jan	4	4	Industrial pollution due to non-renewable energy sources and its types. Principle, processes, source of pollution. Environmental impact and its control with reference to specific industries: Nitrogen containing		Energy and environment Dr.AV Bharati pg.127-163	13-1-23 16-1-23 17-1-23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				fertilizers- ammonia synthesis, Cement manufacturing Industry; Sulfuric acid manufacturing industry		pg.127-165	18-1-23		
9	16 Jan - 21 Jan	4	5	Introduction of Advance materials, properties and applications:- composites, liquid Crystal polymers, conducting polymers, insulating materials, adhesives, biodegradable polymers, Nanomaterials in energy- Photochemical devices like lithium		Energy and environment Dr.AV Bharati pg.212-242	20-1-23 21-1-23		
12	23 Jan-30 Jan	Sessional II							

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Lab Practicals Plan Sem. I

Date: 21 /11/22

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Snehal Chavan			Subject: Energy & environment (EE)			for	Department: Allied science		Section: A & C
			Batch A2			Batch C2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of moisture content of coal.		24/Nov/22	24-11-22	01	11/25/2022	25-11-22	01	
2	Determination of volatile matter content of coal.		01/Dec/22	1-12-22	01	12/2/2022	2-12-22	01	
3	Determination of ash content of coal.		08-12-222	1-12-22	01	12/9/2022	2-12-22	01	
4	Determination of flash point of oil using Pensky-Marten's/ Abel's closed		15/Dec/22	15-12-22	01	12/16/2022	13-1-23	01	
5	Determination of relative viscosity of oil by Redwood Viscometer.		22/Dec/22	8-12-22	01	12/23/2022	9-12-22	01	
6	Determination of acid value of lubricating oil.		05/Jan/23	22-12-22	01	1/6/2023	'		
7	To determine the amount of sulphate present in the given sample by Gravimetric method.		12/Jan/23	—		1/13/2023	—		

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Lab Practicals Plan Sem. I

Date:21/11 /22

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR									
Faculty Name: Dr. Snehal Chavan			Subject: Energy & environment (EE)			for	Department: Allied science		Section: B
			Batch B1			Batch B2			
Pl	Name of experiment	possible Variations	Planned Date	Performed Date	No. of Viva	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print		print	fill	fill	print	fill	fill	fill
1	Determination of moisture content of coal.		22/Nov/22	22-11-22	01	11/23/2022	7-12-22	01	
2	Determination of volatile matter content of coal.		29/Nov/22	29-11-22	01	11/30/2022	30-11-22	01	
3	Determination of ash content of coal.		06/Dec/22	29-11-22	01	12/7/2022	30-11-22	01	
4	Determination of flash point of oil using Pensky-Marten's/ Abel's closed cup apparatus.		13/Dec/22	13-12-22	01	12/14/2022	14-12-22	01	
5	Determination of relative viscosity of oil by Redwood Viscometer.		20/Dec/22	6-12-22	01	12/21/2022	7-12-22	01	
6	Determination of acid value of lubricating oil.		03/Jan/23	20-12-22	01	1/4/2023	21-12-22	01	
7	To determine the amount of sulphate present in the given sample by Gravimetric method.		10/Jan/23	—		1/11/2023	—		

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CCOEW/AS / 22-23

Date: 19/ 11 / 2022

LESSON & TEACHING PLAN for Communication Skills

Department of Allied Science

Faculty Name: Prof. Rashmi Deshpande							Sub:Communication Skills		Sec: A,B,C	Year : 2022-23		Sem:- I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	21/11/22	3	I A	Introduction to Communication, Importance of Communication ,Oral and Written Communication	BSE14TCSW01 L01	CS_ppt _01			Communication Skills by Dr. L.Bisen Chap1, self prepared notes		19/11		
				Process of Communication,Types of communication- Verbal and	BSE14TCSW01 L02	CS_ppt _02					21/11		
				Barriers to Communication and methods to overcome them	BSE14TCSW01 L03	CS_ppt _02					23/11		
2	28/11/22	3	IV B	. Basic Grammar: Tenses and its typ	BSE14TCSW02 L04	CS_ppt _04			Communication Skills by Dr. L.Bisen Chap1, self prepared notes		28/11		
				Types of Sentences Transformation of Sentences-	BSE14TCSW02 L05	CS_ppt _05					28/11		
				Assertive-Imperative-Interrogative-Exclamatory	BSE14TCSW02 L06	CS_ppt _06					30/11		
3	5/12/2022	3	IV A/III A	Reported Speech	BSE14TCSW02 L07	CS_ppt _07			Communication Skills by Dr. L.Bisen Chap8, self prepared notes		3/12		
				Listening Skills,Importance of Listening,Types of Listening	BSE14TCSW02 L08	CS_ppt _07					5/12		
4	12/12/2022	3		Listening Barriers and methods to overcome them	BSE14TCSW02 L09	CS_ppt _07					8/12		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Reference Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Effective Speaking Skills,	BSE14TCSW02 L10	CS_ppt_8					8/12		
5	19/12/22	3	III B	Components of Public Speaking	BSE14TCSW02 L11	CS_ppt_8			Communication Skills by Dr. L.Bisen Chap8, self prepared notes		12/12	Assi 3. (14/12/22)	
				Group Discussion-Process and techniques	BSE14TCSW02 L12	CS_ppt_8					18/12		
				Group Discussion-Process and techniques	BSE14TCSW02 L13	CS_ppt_8					21/12		
				Presentation Skills	BSE14TCSW02 L14	CS_ppt_9					22/12		
	26/12/22			Sessional Exam(26 Dec.-30 Dec.)									
	2-Jan	3	II A,IB	Reading Skills, Importance of Reading	BSE14TCSW03 L16	CS_ppt_10			Communication Skills by Dr. L.Bisen Chap2, self prepared notes		2/1		
6				Sources of Reading, Skimming, Scanning,	BSE14TCSW04 L17	CS_ppt_10					4/1		
				Comprehending passage	BSE14TCSW04 L18	CS_ppt_10					7/1	A.II 7/1/23	
				Comprehending passage	BSE14TCSW04 L19	CS_ppt_10					7/1		
7	9-Jan	3	II B	Process and Techniques of Composition	BSE14TCSW05 L20	CS_ppt_11			Communication Skills by Dr. L.Bisen Chap3,4, self prepared notes		9/1		
				-Précis, Paragraph, Essay	BSE14TCSW05 L21	CS_ppt_11					9/1		
				-Précis, Paragraph, Essay	BSE14TCSW05 L22	CS_ppt_11					11/1		
8	16-Jan	3		interview Skills	BSE14TCSW06 L23	CS_ppt_11					16/1		
				interview Skills	BSE14TCSW06 L24	CS_ppt_12					18/1		
				interview Skills	BSE14TCSW06 L25	CS_ppt_12					21/1	18/1/23 AIII	

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2022-23

R. Deshpande					Communication Skills				Department: AS		Section:A
					Batch A 1			Batch A 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done and link for viva	Ac's Remark
pri	print				print	fill	fill	print	fill	fill	fill
1	Barrires to Communication	BSE1CS7/1/22 P01	Activity Q.s given		24/11/22	24/11/22		21/11/22	21/11/22		
2	Speaking Skills	BSE1CS21/1/22P02	Different Passages		1/12/2022	1/12/22		28/11/22	28/11/22		
3	Listening Skills	BSE1CS24/1/22P03	List. modules assigned		15/12/22	23/12		12/12/2022	19/12		
4	Group Discussion	BSE1CS4/2/22 P04	Gr D activity performed		22/12/22	15/12		19/12/22	12/12		
5	Interview Techniques	BSE1CS4/3/22 P05	Tech. dissued HRQ conducted		5/1/2023	5/1/23		2/1/2023	2/1		
6	Presentation Skills	BSE1CS25/3/22P07	PPT prepared		19/1/23	19/1/23		16/1/23	16/1/23		

Sub. Teacher

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2022-23

R. Deshpande					Communication Skills				Department: AS		Section:B
					BatchB 1			Batch B 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
pri	print				print	fill	fill	print	fill	fill	fill
1	Barrires to Communication	BSE1CS10/1/22 P01	Activity Q.s given		23/11/22	23/11/22		22/11/22	22/11/22		
2	Speaking Skills	BSE1CS17/1/22 P02	activity performed		30/11/22	30/11/22		29/11/22	29/11/22		
3	Listening Skills	BSE1CS24/1/22 P03	Different Passages given		14/12/22	24/12		13/12/22	20/12		
4	Group Discussion	BSE1CS7/2/22P 04	GD activity performed		21/12/22	14/12		20/12/22	13/12		
5	Interview Techniques	BSE1CS28/2/22 P05	MQ Q. given Mock taken		4/1/2023	4/1/23		3/1/2023	3/1/23		
6	Presentation Skills	BSE1CS28/3/22 P07	PPT prepared		18/1/23	11/1/23		17/1/23	10/1/23		

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CCOEW/AS / 22-23

Date: 18 / 11 / 2022

LESSON & TEACHING PLAN for Engineering Physics

Department of Allied Science

Faculty Name: Prof. Dr.Shailesh Khekale | Year : 2022-23 | Sem: I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	21-25 Nov	4	I	Basic understanding: Role of civil engineering in infrastructure development.Current budget for infrastructure work: Broad disciplines of civil engineering; Importance of civil engineering.Possible scope for career early construction and development over time; Ancient monument and modern marvels; Development of various materials of construction and method of construction; work of eminent civil engineers. Fundamentals of Architecture and Town planning; Aesthetics in civil engineering.		Basics of Civil Engineering by Dr.BC Punmia pg.347-359	ppt.1	4/12/22	1st 5/12/22	
2	28 Nov-03 Dec	4	I & II	Fundamentals of building material;stone,bricks,mortar,plai. Reinforced and prestresses concrete, construction chemicals; structurer steel,high tensile steel,carbon composite; plastic in construction, 3D printing;recycling of construction and demolition waste.Basics of construction management and contracts management: temporary	Hand made model showing various planes	Basics of Civil Engineering by Dr.BC Punmia pg.2-47	PPT 2 video 1	13/12/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
3	05-09 Dec	4	II	Environmental engineering and sustainability;water treatment system;effluent treatment system;solid waste management;sustainability in construction.Geotechnical engineering;Basics of solid mechanics,rock mechanicsand	Hand made model showing various planes,solving numericals in group	Building Construction by Sushil kumar pg.32 - 62	ppt.3, video 2	19/12/22		GAS
4	12-17 Dec	4	III	Hydraulics,Hydrology and water resources engineering; fundamental of fluid flow,basic of water supply system.Structural engineering; types of building,tall structuretypes of bridges and water retaining strructure.Surveying and geomatics; traditional surveying technics and total stations,development of digital terrain models:GPS,LIDAR.	watching video in class	Basics of Civil Engineering by Dr.BC Punmia pg.405-441	ppt.2, video 2	23/12/22	2nd	GAS
5	19-23 Dec	4	IV	Introduction to manufacturing;Conventionaal manufacturing processes, metal cutting and machining operation. Additivemanufacturing and 3D printing,basic CNC programing.Engineering mechanics and their applications in domestic appliances.Introduction to basic mechanism and equipment		Manufacturing science by Amitabh gosh and Asok kumar malik pg.25 to 103	ppt.3	5/1/23		GAS
6	26-31 Dec	Sessional I								
7	2-7 Jan	4	V	Introduction to energy source and its conversion;Energy sources:Conventional and renewable energy sources,biomass and tidal energy.Energy conversion devices;Introduction of pumps,compressor,turbine,windmilla nd photovoltic cell.		Thermal Engineering by RK Rajput pg.112 to 146	ppt.4, video 3	9/1/23		GAS

Faculty in Charge

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Mkssss's Cummins College of Engineering for Women
Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
8	9-13 Jan	4	V & VI	Vehicle and their specification;classification of automobile, vehicle specification of two/three wheeler,light motor vehicles,truck,buses,and multiaxle vehicle.Engine component(Introduction).Study of engine specification.cost analysis of vehicle.		Automobile Engineering by Dr.Kirpal singh pg.3 to 30	ppt.5, video 4	11/1/23	3rd	
9	16-20 Jan	4	VI	Vehicle systems;Introduction of chassis layout, steering system,suspension system,braking system,cooling system, fuel injection system,and fuel supply system. Study of power transmission system.clutch,gear box,propeller shaft,universal joint,differential gear box ans axle.		Automobile Engineering by Dr.Kirpal singh pg.41 to 72	ppt.6, video 5	13/1/23		
	23- 30 Jan	SESSIONAL - II								

Sub. Teacher

A. C.

MKSSS's Cummins College of Engineering for Women
Hingna, Nagpur-441110

Dr. Milind Khanapurkar
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Hingna, Nagpur-441110.

Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Women with a difference

Date: 21 / 11 / 2022

CCOEW/Allied Science/ 22-23

LESSON & TEACHING PLAN for BCME

Department of Allied Science

Faculty Name: Prof. Vikram Dandekar						Sub: BCME			Section-A & C	Year : 2022-23		Sem:- 1
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	GATE/TCRT Date	Completion Date	Assignment/Tutorial Date	AC's sign
1	21 Nov - 25 Nov	5	1	Basic understanding. Role of civil engineering in infrastructure development.Current budget for infrastructure work. Broad disciplines of civil engineering. Importance of civil engineering.Possible scope for career early construction and development over time. Ancient monument and modern marvels. Development of various materials of construction and method of construction. work of eminent civil engineers	BCME_AS_ ppt_01	BCME_AS_ V_01	Video from Youtube	Basics of Civil Engineering by Dr.BC Punmia pg.347-359			21/11		
					BCME_AS_ ppt_02	BCME_AS_ V_02					22/11		
					BCME_AS_ ppt_03	BCME_AS_ V_03					23/11		
					BCME_AS_ ppt_04	BCME_AS_ V_04					24/11		
					BCME_AS_ ppt_05	BCME_AS_ V_05					25/11		
					BCME_AS_ ppt_06	BCME_AS_ V_06							
2	28 Nov - 3 Dec	5	1	Fundamentals of Architecture and Town planning. Aesthetics in civil engineering, examples of great architecture.fundamentals of architecture design and town planning.building system(HVAC,Acoustic,Lighting etc);LEEDrating development of smart cities	BCME_AS_ ppt_07	BCME_AS_ V_07		Basics of Civil Engineering by Dr.BC Punmia pg.2-47			28/11		
					BCME_AS_ ppt_08	BCME_AS_ V_08					29/11		
					BCME_AS_ ppt_09	BCME_AS_ V_09					30/11		
					BCME_AS_ ppt_10	BCME_AS_ V_10					1/12		
					BCME_AS_ ppt_11	BCME_AS_ V_11					2/12		
					BCME_AS_ ppt_12	BCME_AS_ V_12							

Faculty in Charge

HOD

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	GATE/TCRT Date	Completion Date	Assignment/Tutorial Date	AC's sign
3	5 Dec - 9 Dec	5	2	Fundamentals of building material,stone,bricks,mortar,plai Reinforced and prestresses concrete construction chemicals; structurer steel,high tensile steel,carbon composite; plastic in construction 3D printing,recycling of construction and demolition waste.Basics of construction management and contracts management: temporary structure in construction; construction method for various types of structure; major construction equipment automation.	BCME_AS_ ppt_13	BCME_AS_ V_13		Building Construction by Sushil kumar pg 32 - 62			5/12		
					BCME_AS_ ppt_14	BCME_AS_ V_14					6/12		
					BCME_AS_ ppt_15	BCME_AS_ V_15					7/12		
					BCME_AS_ ppt_16	BCME_AS_ V_16					8/12		
					BCME_AS_ ppt_17	BCME_AS_ V_17					9/12		
					BCME_AS_ ppt_18	BCME_AS_ V_18							
4	12 Dec - 17 Dec	5	2	Enviromental engineering and sustainability;water treatment system,effluent treatment system;solid waste management,sustainability in construction.Geotechnical engineering:Basics of solid mechanics,rock mechanicsand geology	BCME_AS_ ppt_19	BCME_AS_ V_19		Basics of Civil Engineering by Dr.BC Punmia pg 405-441			12/12		
					BCME_AS_ ppt_20	BCME_AS_ V_20					13/12		
					BCME_AS_ ppt_21	BCME_AS_ V_21					14/12		
					BCME_AS_ ppt_22	BCME_AS_ V_22					15/12		
					BCME_AS_ ppt_23	BCME_AS_ V_23					16/12		
					BCME_AS_ ppt_24	BCME_AS_ V_24							
5	19 Dec - 23 Dec	5	3	Hydraulics,Hydrology and water resources engineering; fundamental of fluid flow,basic of water supply system.Structural engineering: types of building,tall structuretypes of bridges and wwater retaining strructure.Surveying and geomatics traditional surveying technies and total stations,development of digital terrain models;GPS,LIDAR	BCME_AS_ ppt_25	BCME_AS_ V_25		Basics of Civil Engineering by Dr.BC Punmia pg			19/12		
					BCME_AS_ ppt_26	BCME_AS_ V_26					20/12		
					BCME_AS_ ppt_27	BCME_AS_ V_27					21/12		
					BCME_AS_ ppt_28	BCME_AS_ V_28					22/12		
					BCME_AS_ ppt_29	BCME_AS_ V_29					23/12		
					BCME_AS_ ppt_30	BCME_AS_ V_30							
6	26 Dec - 30 Dec												

Sessional 1

Faculty in Charge

HOD

Cummins College of Engineering for Women
Hingna, Nagpur-441110
MKSSS's

Dr. Milind Khanapurkar
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Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	GATE/TCRT Date	Completion Date	Assignment/Tutorial Date	AC's sign
7	2 Jan - 7 Jan	5	4	Repair and rehabilitation of structure, basic of corrosion phenomenon and other structure destress mechanism computational method,IT,IoT in civil engineering.Basics of professionalism, professional ethics,enterpreneure possibilities in civil engineering.	BCME_AS_ ppt_31	BCME_AS_ V_31		Building Construction by Sushil kumar pg 32 - 62			2/1		GVS
					BCME_AS_ ppt_32	BCME_AS_ V_32					3/1		
					BCME_AS_ ppt_33	BCME_AS_ V_33					4/1		
					BCME_AS_ ppt_34	BCME_AS_ V_34					5/1		
					BCME_AS_ ppt_35	BCME_AS_ V_35					6/1	6/1/23	
					BCME_AS_ ppt_36	BCME_AS_ V_36					7/1		
8	9 Jan - 13 Jan	5	4	Introduction to manufacturing;Conventionaal manufacturing processes, metal cutting and machining operation. Additivemanufacturing and 3D printing,basic CNC programing.Engineering mechanics and their applications in domestic appliances.Introduction tobasic mechanism and equipment.	BCME_AS_ ppt_37	BCME_AS_ V_37		Manufacturing science by Amitabh gosh and Asok kumar malik pg 25 to 103			9/1		GVS
					BCME_AS_ ppt_38	BCME_AS_ V_38					10/1		
					BCME_AS_ ppt_39	BCME_AS_ V_39					11/1		
					BCME_AS_ ppt_40	BCME_AS_ V_40					12/1		
					BCME_AS_ ppt_41	BCME_AS_ V_41					13/1		
					BCME_AS_ ppt_42	BCME_AS_ V_42					14/1		
9	16 Jan -21 Jan	5	5	Introduction to energy source and its conversion;Energy sources Conventional and renewable energy sources, biomass and tidal energy.Energy conversion devices.Introduction of pumps, compressor,turbine,windmilla nd photovoltic cell.	BCME_AS_ ppt_43	BCME_AS_ V_43		Thermal Engineering by RK Rajput pg.112 to 146			16/1		
					BCME_AS_ ppt_44	BCME_AS_ V_44					17/1		
					BCME_AS_ ppt_45	BCME_AS_ V_45					18/1	18/1/23	GVS
					BCME_AS_ ppt_46	BCME_AS_ V_46					19/1		
					BCME_AS_ ppt_47	BCME_AS_ V_47					20/1		
					BCME_AS_ ppt_48	BCME_AS_ V_48					21/1		
12	23 Jan -30 Jan												

Sessional II

Sub. Teacher

Faculty in Charge

GVS

HOD

Cummins College of Engineering for Women Hingna, Nagpur-441110

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Approved by AICTE, New Delhi & DTE, Mumbai
Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

Academic year

2021-22

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Mouje Sukli (Gupchup), Hingna, Nagpur-441110

Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Cummins

Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr.S.Bompilwar | Advanced Engineering Materials | Department: AS | Section:A

Pr. No.	Name of experiment	Lab ID	Possible variations	Batch A1 Planned Date	Batch A1 Perform Date	Batch A1 No. of Viva done and	Batch A2 Planned Date	Batch A2 Perform Date	Batch A2 No. of Viva done and	Ac's Remark
print	print			print	fill	fill	print	fill	fill	fill
1	Parameter extraction from V-I characteristics of PN junction diode.		Si, Ge diode	18/4/22	18/4	✓	20/4	20/4/22	✓	
2	Parameter extraction from V-I characteristics of PNP/NPN transistor in CE mode		-	25/4/22	25/4	✓	27/4	27/4/22	✓	
3	Parameter extraction from V-I characteristics of Zener diode.		zener diode with diff Vz.	02-05-2022	2/5/22	✓	5/5/22	05-05-2022	✓	
4	Parameter extraction from V-I characteristics of PNP/NPN transistor in CB mode			16/5/22	9/5/22	✓	18/5	18/5/22	✓	
5	V-I Characteristics of Light Emitting Diodes.		used diff. diodes	30/5/22	23/5	✓	7/6/22	06-01-2022	✓	
6	Study of Diode rectification		variation i/p voltage	13/6/22	6/6/22	✓	15/6/22	15/6/22	✓	
7	Laser source: Determination of wavelength by diffraction grating		variation in dist.	27/6/22	20/6/22	✓	22/6/22	29/6/22	✓	

Sub. Teacher

Ac

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CCOEW/AS /21-22

Date: 18-4-2022

LESSON & TEACHING PLAN for Applied Chemistry

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam | Sub: Applied chemistry | Sec: A,B,C | Year : 2021-22 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	18-23 April	4	3	Basic concept of free energy and EMF	BSE2-3TACW01D020621L0	AC_ppt_01		To classify the substance in day to day life as metallic and non metallic and study the corrosion types in it	P.C.Jain and M. Jain 329-354		18/4/22		
				Cell potential , Nernst equation and its application	BSE2-3TACW01D020621L02						19/4/22		
				Corrosion, definition, causes , theories	BSE2-3TACW01D020621L0						20/4/22		
				Dry wet, differential aeration	BSE2-3TACW01D020621L0						21/4/22		
2	25-30 April	6		Types of corrosion,pitting, stress, intergranular corrosion	BSE2-3TACW01D020621L05						22/4/22		
				prevention and control of corrosion	BSE2-3TACW01D020621L0						25/4/22		
				Design, material selection, cathodic protection	BSE2-3TACW01D020621L0						27/4/22		
				Tutorial lecture	BSE2-3TACW01D020621L0						27/4/22		
			5	Green chemistry, introduction,	BSE2-3TACW01D020621L0						28/4/22		
				Twelve principles of green chemistry	BSE2-3TACW01D020621L0						29/4/22		
				Numericals on atom economy	BSE2-3TACW01D020621L011			Numericals to be solved by			29/4/22		

Faculty in Charge

AC

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	2-7 may	6		Carbon sequestration, carbon credits	BSE2-3TACW01D020621L017	AC_ppt_02		be solved by the students	S. Dara 814-74		2|5|22		
				Dimethyl carbonate and its application	BSE2-3TACW01D020621L013						3|5|22	3|5|22	
				Supercritical Carbon dioxide and its applications	BSE2-3TACW01D020621L014						4|5|22		
				Uses and applications of biopolymers	BSE2-3TACW01D020621L015						5|5|22		
				Tutorial lecture	BSE2-3TACW01D020621L0								
4	9-14may	6	6	Importance of pH, alkalinity, hardness of water	BSE2-3TACW01D020621L0	AC_ppt_03		To identify the coagulating agents in day to	S. Dara 22-6		10|5|22		
				Domestic water treatment, brief discussion of coagulation by various reagents	BSE2-3TACW01D020621L018								
				Sterilisation by using ozone , chlorine	BSE2-3TACW01D020621L0						11|5|22		
				Break point chlorination	BSE2-3TACW01D020621L0						12|5|22		
				Softening of water by zeolite process, reactions, advantages, limitations	BSE2-3TACW01D020621L0						13|5|22		
				Softening of water by ion exchange process, reactions, advantages,	BSE2-3TACW01D020621L0								
5	16-21 may	5		Numericals on zeolite process	BSE2-3TACW01D020621L0			Numericals to be solved by the students			16|5|22		
				Numericals on zeolite process	BSE2-3TACW01D020621L0						17|5|22		
				Boiler troubles, causes, effects and its prev	BSE2-3TACW01D020621L0						18|5|22		
				Scales, sludges, caustic embrittlement	BSE2-3TACW01D020621L0								
				Desalination of sea water by electrodialysis and reverse osmosis	BSE2-3TACW01D020621L0								
				Waste water treatment, memberane biore	BSE2-3TACW01D020621L0						6|6|22		
				Tutorial lecture	BSE2-3TACW01D020621L0								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	23-27 may	6	1	Effective nuclear charge, penetration of atomic orbitas	BSE2-3TACW01D020621L030							23/5/22	
				Electronic configuration, periodic trend of atomic and ionic sizes.	BSE2-3TACW01D020621L0			To draw a chart of trends in atomic properties				25/5/22	
				ionisation energy, electron affinity,	BSE2-3TACW01D020621L0							26/5/22	
				Electronegativity, polarizability	BSE2-3TACW01D020621L0							27/5/22	
	27may-4			SESSIONAL I									
7	6-11 june	5		Atomic and molecular orbitals	BSE2-3TACW01D020621L0	AC_ppt_04			Applied chemistry by Dr. Avinash Bharati			6/6/22	
				molecular orbital theory and energy level diagram of homo diatomic	BSE2-3TACW01D020621L0							7/6/22	
				Energy level diagram of hetero diatomic molecules	BSE2-3TACW01D020621L0							8/6/22	
				Crystal field theory	BSE2-3TACW01D020621L0							10/6/22	
				Energy level diagram of transition metal ions	BSE2-3TACW01D020621L0								
8	13-18 june	5		Magnetic properties of tetrahdral and octahedral complexes	BSE2-3TACW01D020621L0							13/6/22	
				Tutorial lecture	BSE2-3TACW01D020621L0							14/6/22	
			2	Thermodynamic functions, entropy, enthalpy, free energy	BSE2-3TACW01D020621L0							15/6/22	
				Brief introduction of system, surrounding, intensive and extensive	BSE2-3TACW01D020621L0							16/6/22	
				Definition and basic concept internal energy	BSE2-3TACW01D020621L0							17/6/22	
				Numerical on internal energy and entha	BSE2-3TACW01D020621L0							18/6/22	
				Numerical on internal energy and entha	BSE2-3TACW01D020621L0	AC_ppt_05						21/6/22	
				Zeroth law, first law Second law of thermodynamics	BSE2-3TACW01D020621L0							22/6/22	
9	20-25	6											

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women, Hingna, Nagpur-441110

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
9	june	6		Reversible, irreversible reactions	BSE2-3TACW01D020621L0 47						23/6/22		
				Use of Gibbs free energy in chemical equilibrium and oxidation reduction	BSE2-3TACW01D020621L0 48						24/6/22		
				Tutorial lecture	BSE2-3TACW01D020621L0 49								
10	27-30 june	6	4	Principle of spectroscopy and selection rules	BSE2-3TACW01D020621L0 50	AC_ppt_06		To draw the NMR spectra of 10 aliphatic and aromatic compounds	Y. R. Sharma, The book of spectroscopy		29/6/22		
				Electronic spectroscopy, Lambert Beer's Law	BSE2-3TACW01D020621L0 51						30/6/22		
				Woodward, Fischer rule for conjugated dienes	BSE2-3TACW01D020621L0 52								
				Fluroscence, phosphorescence , Jablonski diagram	BSE2-3TACW01D020621L0 53						4/7/22		
11	4-9 july	6		NMR spectroscopy, basic principles	BSE2-3TACW01D020621L0						5/7/22		
				Chemical shift, spectral interpretation	BSE2-3TACW01D020621L0						7/7/22		
				NMR spectra to draw for various compounds	BSE2-3TACW01D020621L0						7/7/22		
				Magnetic resonance imaging spectrosc	BSE2-3TACW01D020621L0								
12	11-18 july	Sessional II											

Sub. Teacher
Dr. A.H. Gedam

AC
Dr. A. H. Gedam

Faculty in Charge

AC

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
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Cummins

Section B

Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr. Asha H. Gedam | Applied Chemistry | Department: AS | Section:A B,C

Section B1 | B2

Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva question	Ac's Remark
print	print				print	fill	fill	print	fill	fill	fill
1	Determination of hardness of water by complexometry method	BSE2-3PAC9621P01			19/4/22	3/5/22		29/4/22	4/5/22		
2	To determine type and extent of alkalinity of given water sample	BSE2-3PAC16621P02			26/4/22	10/5/22		27/4/22	11/5/22		
3	Determination of free chlorine by iodometry	BSE2-3PAC23621P03			3/5/22	17/5/22		4/5/22	18/5/22		
4	Determination of dissolved oxygen	BSE2-3PAC30621P04			10/5/22	10/5/22		11/5/22	11/5/22		
5	Determination of ferrous / ferric by redox titration	BSE2-3PAC7721P05			17/5/22	17/5/22		18/5/22	18/5/22		
6	Synthesis of polymer	BSE2-3PAC14721P06			7/6/22	7/6/22		8/6/22	8/6/22		
7	Virtual demonstration of Lambert Beer's Law	BSE2-3PAC28721P07			14/6/22	14/6/22		15/6/22	15/6/22		
8	Demonstration of thin layer chromatography	BSE2-3PAC4821P08			21/6/22	21/6/22		22/6/22	22/6/22		

Sub. Teacher
Dr. Asha H. Gedam

AC
Dr. A.H. Gedam

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Hingna, Nagpur-441110.

CCOEW/AS/ 21-22

Date: 18 /04/2022

LESSON & TEACHING PLAN for Indian Culture and Constitution

Department of Allied Science

Faculty Name: Prof. Priyadarshini Ramteke | Sub: Indian Culture & Constitution | Sec: C | Year : 2020-21 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	18 - 24 April	2	I	Concept of Culture & Civilization						21/4/22		
				Difference between culture and civilization						28/4/22		
				Vedic Culture & Civilization								
2	26 - 30 April	2		Indus valley Civilization						10/5/22		
			II	Social Engineerng						5/5/22		
				Meaning and Scope of Industrial Psychology						28/4/22		
3	2 - 7 May	2		Meaning and Scope of Industrial Sociology						12/5/22		
				Recruitment of workers						12/5/22		
4	9 - 14 May	2		Selection Procedure						16/5/22		
				Training in industry						17/5/22		
5	16 - 21 May	2	III	Theories of Motivation						19/5/22		
				Sustainable Development						6/6/22		
				Social Change						GD		
6	23 - 26 May	1		Concepts and styles of leaderships						Assignment		
										10/6/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
27 May - 4 June			SESSIONAL - I									
7	6 - 11 June	2	IV	Indian Constitution					14/6/22			
				Federal System					14/6/22			
8	13 18 June	2		Fundamental Rights					16/6/22			
				Directive Principles of state policy					Assignment			
9	20 - 25 June	2		Bureaucracy					19/6/22			
			V	Industrial Democracy					19/6/22			
				Line Organization, Line & Staff Organization					21/6/22 22/6/22			
10	27 June - 2 July	2		Functional Organization					22/6/22			
				Power and Status					28/6/22			
11	4 - 9 July	2		Delegation of Authority					Assignment			
				Industrialization and Urbanization & Slums					30/6/22			
11 - 18 July			Sessional II									

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CCOEW/AS/ 21-22

Date: 18 /04/2022

LESSON & TEACHING PLAN for Indian Culture and Constitution

Department of Allied Science

Faculty Name: Prof. Priyadarshini Ramteke | Sub: Indian Culture & Constitution | Sec: B | Year : 2020-21 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	18 - 24 April	2	I	Concept of Culture & Civilization						22/4/22		
				Difference between culture and civilization						25/4/22 29/4/22		
				Vedic Culture & Civilization						6/5/22		
2	26 - 30 April	2		Indus valley Civilization						2/5/22		
			II	Social Engineerng						29/4/22		
				Meaning and Scope of Industrial Psychology						9/5/22		
3	2 - 7 May	2		Meaning and Scope of Industrial Sociology						9/5/22		
				Recruitment of workers						11/5/22		
4	9 - 14 May	2		Selection Procedure						16/5/22		
				Training in industry						20/5/22		
5	16 - 21 May	2	III	Theories of Motivation						10/6/22		
				Sustainable Development						GD		
				Social Change						Assignment		
6	23 - 26 May	1		Concepts and styles of leaderships						15/6/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
27 May - 4 June			SESSIONAL - I									
7	6 - 11 June	2	IV	Indian Constitution					17/6/22			
				Federal System					17/6/22			
8	13 18 June	2		Fundamental Rights					20/6/22			
				Directive Principles of state policy					Assignment			
				Bureaucracy					20/6/22			
9	20 - 25 June	2	V	Industrial Democracy					21/6/22			
				Line Organization, Line & Staff Organization					21/6/22			
10	27 June - 2 July	2		Functional Organization					27/6/22			
				Power and Status					29/6/22			
11	4 - 9 July	2		Delegation of Authority					Assignment			
				Industrialization and Urbanization & Slums					30/6/22			
11 - 18 July			Sessional II									

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CCOEW/AS / 21-22

Date: 03/01/2022

LESSON & TEACHING PLAN for Applied Maths-I

Department of Allied Science

Faculty Name: Prof. Pravin Gorantiwar | Sub: Mathematics-I | Allied Science | Year : 2021-22 | Sem:- I (sec B)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	03 Jan - 08 Jan	5	III	Unit 3: Matrices Introduction		PDF-I-03		B.S. Grewal, Higher Engineering Mathem				
				Inverse of a matrix by Partitioning method								
				Rank of a matrix						07-01-2022		
2	10 Jan - 15 Jan	5	III	Consistency of linear system of nonhomogeneous		PDF-I-03		B.S. Grewal, Higher Engineering Mathem				
				Homogeneous system of Linear equations								
				Symmetric, Skew-symmetric and Orthogonal matrices								
				Linear and Orthogonal transformations						15-01-2022	15-01-22	
3	17 Jan - 22 Jan	5	III	Cayley-Hamilton theorem				B.S. Grewal, Higher Engineering Mathem		17-01-2022		
			I	Unit 1: Differential Calculus Successive differentiation: Leibnitz's Rule		PDF-I-01						
				Taylor's and Maclaurin's series for function of one variable						25-01-2022	29.01.22	
4	24 Jan - 29 Jan	5	I	Indeterminate forms and L'Hospital's Rule		PDF-I-01		D. T. Deshmukh, Higher Engineering Mathematics				
				Maxima and Minima for function of one variable.						04-02-2022		
			II	Unit 2: Multivariable Calculu Differentiation Functions of several variables		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics		05-02-2022		
5	31 Jan - 05 Feb	5	II	First and Higher order partial derivatives		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics				
				Euler's theorem		PDF-I-02						
				Chain rule and Total differential coefficient								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
6	07 Feb - 12 Feb	3	II	Jacobians, Taylor's and Maclaurin's series for function of two variables		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics		23-02-2022		
7	14 Feb - 19 Feb	6	Sessional - I Examination									
8	21 Feb - 26 Feb	5	II	Maxima and Minima for function of two variables Lagrange's method of undetermined multipliers		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics		27-02-2022		
9	28 Feb - 05 March	5	IV	Unit 4: First Order Ordinary Differential Equations Linear and Bernoulli's equation		PDF-I-04		B.S. Grewal, Higher Engineering Mathem		01-03-2022		
10	07 Mar - 12 Mar	5	IV	Equations of first order and higher degree: Solvable for p, y, x and Clairaut's type Application of first order differential equation to simple electrical circuits		PDF-I-04		B.S. Grewal, Higher Engineering Mathem		04-03-2022		
11	14 Mar - 19 Mar	5	V	Unit 5: Higher Order Ordinary Differential Equations Higher order ordinary linear differential equations with constant coefficients Method of variation of parameters,		PDF-I-05		B.S. Grewal, Higher Engineering Mathematics		06-03-2022		
12	21 Mar - 26 Mar	5	V	Cauchy's and Legendre's homogeneous differential equations. Simultaneous differential equations		PDF-I-05		B.S. Grewal, Higher Engineering Mathematics		07-03-2022 09-03-2022	09.03.22	
13	28 Mar - 31 Mar	4	V	Equations of the type d2y/dx2=f(x) and d2y/dx2=f(y) Applications of higher order differential equations to simple electrical circuits		PDF-I-05		B.S. Grewal, Higher Engineering Mathematics		15-03-2022		
14	04 April - 8 April		Sessional- II Examination									

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CCOEW/AS / 21-22

Date: 03/01/2022

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

Faculty Name: Prof.Sneha Uttarwar | Sub: Mathematics-I | Allied Science | Year : 2021-22 | Sem:- I (sec A)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	03 Jan - 08 Jan	5	III	Unit 3: Matrices Introduction				B.S. Grewal, Higher Engineering Mathem				
				Inverse of a matrix by Partitioning method								
				Rank of a matrix					8/01/22			
2	10 Jan - 15 Jan	5	III	Consistency of linear system of nonhomogeneous				B.S. Grewal, Higher Engineering Mathem	10/01/22			
				Homogeneous system of Linear equations								
				Symmetric, Skew-symmetric and Orthogonal matrices					10/01/22			
				Linear and Orthogonal transformations					11/01/22			
			III	Cayley-Hamilton theorem					12/01/22			
3	17 Jan - 22 Jan	5	I	Unit 1: Differential Calculus Successive differentiation: Leibnitz's Rule				B.S. Grewal, Higher Engineering Mathem	15/01/22 Tutorial-I Assg-I			
				Taylor's and Maclaurin's series for function of one variable					24/01/22			
4	24 Jan - 29 Jan	5	I	Indeterminate forms and L'Hospital's Rule				D. T. Deshmukh, Higher Engineering Mathematics	28/01/22			
				Maxima and Minima for function of one variable.					01/02/22			
			II	Unit 2: Multivariable Calculu Differentiation Functions of several variables				D. T. Deshmukh, Higher Engineering Mathematics	04/02/22 Tutorial-II			
5	31 Jan - 05 Feb	5	II	First and Higher order partial derivatives				D. T. Deshmukh, Higher Engineering Mathematics				
				Euler's theorem					07/02/22 Test		Assign-02	
				Chain rule and Total differential coefficient								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
6	07 Feb - 12 Feb	3	II	Jacobians, Taylor's and Maclaurin's series for function of two variables				D. T. Deshmukh, Higher Engineering Mathematics	10/02/22	10/02/22		
7	14 Feb - 19 Feb	6	Sessional - I Examination									
8	21 Feb - 26 Feb	5	II	Maxima and Minima for function of two variables Lagrange's method of undetermined multipliers				D. T. Deshmukh, Higher Engineering Mathematics		22/02/22		
9	28 Feb - 05 March	5	IV	Unit 4: First Order Ordinary Differential Equations Linear and Bernoulli's equation				B.S. Grewal, Higher Engineering Mathem		23/02	Assig-03	
10	07 Mar - 12 Mar	5	IV	Equations of first order and higher degree: Solvable for p, y, x and Clairaut's type Application of first order differential equation to simple electrical circuits				B.S. Grewal, Higher Engineering Mathem		05/03 Tutorial-III		
11	14 Mar - 19 Mar	5	V	Unit 5: Higher Order Ordinary Differential Equations Higher order ordinary linear differential equations with constant coefficients Method of variation of parameters,				B.S. Grewal, Higher Engineering Mathematics		07/03 08/03		
12	21 Mar - 26 Mar	5	V	Cauchy's and Legendre's homogeneous differential equations. Simultaneous differential equations				B.S. Grewal, Higher Engineering Mathematics		09/03 Tutorial-IV		
13	28 Mar - 31 Mar	4	V	Equations of the type d2y/dx2=f(x) and d2y/dx2=f(y) Applications of higher order differential equations to simple electrical circuits				B.S. Grewal, Higher Engineering Mathematics		18/03 19/03		
14	04 April - 8 April		Sessional- II Examination									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
3	17 Jan to 22 Jan22	4	II	Expression for Compton shift & its interpretation,de Broglie hypothesis	Quant _ppt_01+ 02		A testbook of Engineering physics (page number 304-394)10th Edition ,Atextbook of Applied physics(2.1 to 3.23) first edition			18-1-22	
				Concept of wave-particle duality, de-Broglie Hypothesis	Quant_ppt_02					18-1-22	
4	24 Jan to 29 Jan 22	4		Matter Waves, Davisson-Germer Experiment; Bohr's Quantization condition.	Quant_ppt_02					25-1-22	
				numericals	Quant_ppt_03					26-1-22	
5	31 Jan to 5 Feb	4		Wave function Ψ and normalization condition, concept of wave packets,	Quant_ppt_03					29-1-22	
				Heisenberg Uncertainty Principle.	Quant_ppt_03					1-2-22	
				Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite potential well.	Quant_ppt_04				2-2-22 (Assign) 2-2-22 (Tutorial)	2-2-22	
6	7 Feb to 12 Feb 22	3		Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite	Quant_ppt_04					1-2-22	
7	14 Feb to 19 Feb	Sessional I									
8	21 Feb to 26Feb 22	3		Huygen's principle, superposition of waves	Inter _ppt_05		A testbook of Engineering				
				interference of light by wavefront splitting and amplitude splitting,	Inter _ppt_05					29-1-22	
9		4		Interference in thin films,	Inter _ppt_05					31-1-22	
				, Interference in Wedge shape thin film,	Inter _ppt_06					11-3-22	
				Newton's rings, Anti-reflection coating.	Inter _ppt_06					12-3-22	

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K No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
			I	Fraunhoffer diffraction from a single slit and a circular aperture, Diffraction grating and its resolving power.	Inter _ppt_07		physics (page number 468-505)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		12-3-22		
10	28 Feb to 5 March 22	4		Fraunhoffer diffraction from a single slit and a circular aperture, Diffraction grating and its resolving power.	Inter _ppt_07				14-3-22		
					Inter _ppt_07				14-3-22		
					Inter _ppt_07				14-3-22		
11				Numericals	Inter _ppt_08				15-3-22		
	7March to 12 March 22	4		numericals	Inter _ppt_08				15-3-22		
			IV	Optical fibers: Propagation by total internal reflection, structure and classification	OP_ppt_01				2-3-22		
									3-3-22		
12				Modes of propagation in fiber, Acceptance angle, Numerical aperture, Attenuation and dispersion.	OP_ppt_01				4-3-22		
	14 march to 19	5	IV	Acceptance angle, Numerical aperture, Attenuation and dispersion.	OP_ppt_02		A testbook of Engineering physics (page		5-3-22		

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K No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
	march 22			Light sources and Detectors, Applications of optical fiber as Sensors - i) Temperature Sensor ii) Pollution / Smoke detector	OP_ppt_02		number 698-725)10th Edition ,Atextbook of Applied physics(5.1 to 5.31) first edition		7-3-22		
13	21 march to 26 March	4	IV	iii) Liquid level sensor, Fiber optic communication system.	OP_ppt_02				7-3-22		
				Numericals	OP_ppt_03				7-3-22		
				Numericals	OP_ppt_03				7-3-22		
14				Devices: Cathode Ray Tube, Cathode Ray Oscilloscope and its applications,	Devi_ppt_01				9-2-22 11-2-22		
	28 March to 31 March	3		Function & working of each block, Bainbridge mass spectrograph.	Devi_ppt_02		A testbook of Engineering physics (page number 70-104)10th Edition ,Atextbook of Applied		21-2-22 25-2-22	Assign 3 25-2-22 Tutorial 3 25-2-22	

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Lab Practicals Plan

Classes separated on 21st Feb. Formed new Section C.

CCOEW/ Department of Allied Science 2021-22

Dr.S.Shastri | Applied Physics | Department: AS | Section: B

					Batch B 1 / C1			Batch B 2 / C2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
1	comparative study of cubic crystal structure			https://vlab.amrita.edu/?sub=1&brch=282&sim=370&cnt=1	12-01-2022	12-01-22	online	12-01-2022	12-01-22		
2	Newtons rings			https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=1520&cnt=1	19-01-2022	19-01-22	online	19-01-2022	19-1-22		
3	Determination of angle of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1508&cnt=1	02-02-2022	2-2-22	online	02-02-2022	2-2-22		
4	RI of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1513&cnt=1	09-02-2022	9-2-22	online	09-02-2022	9-2-22		
5	Plane diffraction grating			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=334&cnt=1	02-03-2022	2-3-22	offline	02-03-2022	2-3-22		
6	NA of optical fiber			https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=343&cnt=1	16-03-2022	16-3-22	online	16-03-2022	16-3-22		
7	Detrmination of AC and DC voltage using CRO			https://www.svce.ac.in/acdcsignal/simulation.html	23-03-2022	23-3-22	offline	23-03-2022	23-3-22		

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CCOEW/AS / 21-22

Date: 17/ 1 / 2022

LESSON & TEACHING PLAN for Applied Physics

Department of Allied Science

Faculty Name:Dr Shubhangi Bompilwar						Sub:Applied Physics		Sec: C	Year : 2021-22		Sem:- I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	17 Jan to 22 Jan22	4	II	comparison of classical and quantum mechanics	Quant _ppt_01+ 02		A testbook of Engineering physics (page number 368-405)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		17 JAN to 22 JAN.		
				Plancks hypothesis , Einsteins theory of photons, Concept of wave-particle duality	Digital slet with one note						
				Compton effect, Expression for Compton shift & its interpretation,de Broglie hypothesis	Digital slet with one note						
				, de-Broglie Hypothesis	Digital slet with one						
4	24 Jan to 29 Jan 22	4		Matter Waves, Davisson-Germer Experiment; Bohr's Quantization condition.	Digital slet with one note				24 JAN to 29 JAN.		
				numericals	Digital slet with one						
5	31 Jan to 5 Feb	4		Wave function Ψ and normalization condition, concept of wave packets,	Digital slet with one note				31-JAN to 5 FEB.	30 JAN 2021	
				Heisenberg Uncertainty Principle.	Digital slet with one						
				Numericals	Digital slet with one						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite potential well.	Digital slet with one note				7 Feb to 22 Feb		
6	7 Feb to 12 Feb 22	3		Electron Optics , Bethe's law, Lecetrostatic lens, Numericals	Digital slet with one note						
7	14 Feb to 19 Feb	Sessional I (15Mar-20Mar)									
8											
				Electrostatic lens, CRT	BB				21 Feb to 26 Feb		
9	21 Feb to 26Feb 22	5		CRO Block diagram and functions							
				Components of CRO and its working							
				Bainbridge Mass spectroscope		Black Board					
				Numericals							
10			IV	Optical fibers: Propagation by total internal reflection, structure and classification	BB		A testbook of Engineering physics (page number 468-505)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		28 Feb to 5 March		
	28 Feb to 5 March 22	4		Attenuation, loss mechanism,							
				Applications of OF							
11				Numericals							
	7March to 12 March 22	4		Wave optics, interfereance in Wedge shaped thin filmApplications of wedge shaped thin film	BB			5 march 2022	7 march to 12 march	https://docs.google.com/forms/d/1w9pB_807SN9MLk08VRB4GaH2m3092xvau6zHO6gqeTU/edit	
			I	, AR coating,newtons ring expt and its applications							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	14 march to 19 march 22	5	IV	Numericals	BB		A testbook of Engineering physics (page number 698-725)10th Edition ,Atextbook of Applied physics(5.1 to 5.31) first edition		14 March	10 march 2022	
				Diffraction, its types,					to		
				Diffraction grating, resolving power	BB				22 to 19 March		
				numericals Revision							

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr.S.Bompilwar | Applied Physics | Department: AS | Section:A

					Batch A 1			Batch A2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
pri	print				print	fill	fill	print	fill	fill	fill
1	comparative study of cubic crystal structure			https://vlab.amrita.edu/?sub=1&brch=282&sim=370&cnt=1	13-01-2022	13/1/22	✓	13-01-2022	13/1/22	✓	
2	Newtons rings		different source of lights + lens	https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=1520&cnt=1	20-01-2022	20/1/22	✓	20-01-2022	20/1/22	✓	
3	Determination of angle of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1508&cnt=1	03-02-2022	27/1/22	✓	03-02-2022	27/1/22	✓	
4	RI of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1513&cnt=1	10-02-022	27/1/22	✓	10-02-2022	27/1/22	✓	
5	Plane diffraction grating			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=334&cnt=1 LAB	03-03-2022	3/2/22	✓	03-03-2022	5/2/22	✓	
6	NA of optical fiber		Light source	https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=343&cnt=1	17-03-2022	2/3/22	✓	17-03-2022	2/3/22	✓	
7	Detrmination of AC and DC voltage using CRO		Freq. Variation	https://www.svce.ac.in/acdcsignal/simulation.html LAB	24-03-2022	21/2/22	✓	24-03-2022	23/2/22	✓	

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CCOEW/Allied Science/ 21-22 Date: 28 / 12 / 2021

LESSON & TEACHING PLAN for BCME

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam						Sub: EE	Section-A & B		Year : 2021-22		Sem:- 1
WEEK No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	03 Jan - 08 Jan	4	1	• Basics of Energy - Introduction, sources and types of energy, Units of energy, Thermal Basics of energy - fuels, thermal energy contents of fuel, heat capacity, sensible and latent heat, evaporation, condensation, steam, moist air and humidity & heat transfer. • Classification of fuels,	AC_AS_ppt_01		PPT.	Energy and environment Dr.AV Bharati pg.1-42		4/1/22 5/1/22 7/1/22 7/1/22		
2	10 Jan - 15 Jan	4	1	Calorific Value (HCV & LCV). Determination of Calorific value by Bomb and Boy's Calorimeter. • Solid Fuels:- Significance of Proximate and Ultimate Analysis of coal, • Numerical based on Dulong's formula	AC_AS_ppt_02			Energy and environment Dr.AV Bharati pg.1-42		10/1/22 11/1/22 13/1/22 15/1/22	11/1/22	
				• Numerical on Goutal's Formula for Gross Calorific Value based on Proximate Analysis	AC_AS_ppt_03					15/1/22		

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EEK No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	17 Jan - 22 Jan	4	1	• Numerical on Calorific Value determination. • Numerical on GCV & NCV by using relation formula (convert answer in joules or one of the CV given in joules)				Energy and environment Dr.AV Bharati pg.1-42		18/1/22 19/1/22 20/1/22		
4	24Jan - 29 Jan	4	2	• Liquid Fuel:-Fractional distillation of crude oil, Catalytic cracking and its advantages • Knocking in internal combustion petrol and diesel engine, Octane and Cetane number,	AC_AS_ppt_04			Energy and environment Dr.AV Bharati pg.43-96		21/1/22 23/1/22 29/1/22 31/1/22	31/1/22	
5	31 Jan - 05 Feb	4	2	Knocking and its relationship with structure of fuel, Doping agents, • Power alcohol, Gasohol, Diesehol. Aviation fuel, Bio-diesel. • Gaseous Fuel:-CNG, H2 as specialised fuel • Combustion Calculations	AC_AS_ppt_05			Energy and environment Dr.AV Bharati pg.43-96		1/2/22 2/2/22 3/2/22 5/2/22		
6	07 Feb - 12 Feb	4	3	• Bio-energy, Photolysis of water-Chemical Conversion of Solar Energy. • Nuclear fuels: Numerical on Binding Energy & Average Binding Energy per Nucleon • Fuel cells- working, advantages and disadvantages of alkaline, methanol fuel cells	AC_AS_ppt_06			Energy and environment Dr.AV Bharati pg.164-202		7/2/22 8/2/22 9/2/22 12/2/22	~~9/2/22~~	

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WEEK No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	21-26 Mar	4	5	• Introduction of Advance materials, properties and applications:- composites, liquid Crystal polymers, conducting polymers, insulating materials, adhesives, biodegradable polymers	AC_AS_ppt_11			Energy and environment Dr.AV Bharati pg.212-242		16/3/22		
13	28-31 Mar	4	5	• Nanomaterials in energy- Photochemical devices like lithium ion batteries, Nanomaterials for Energy Storage, nanomaterials in solar cells.	AC_AS_ppt_12			Energy and environment Dr.AV Bharati pg.212-242		19/3/22		
12	1 Apr- 9 Apr	Sessional II										

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Lab Practicals Plan

CCOEW/ Department of Allied science 2021-22

Dr. Asha H. Gedam — Section: B

Department of Allied science

Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
print	print				print	fill	fill	fill
1	Determination of Flash Point of the given sample by Abels/ Pensky Martens close cup apparatus	BSE13TEE P01	change in oil samples.		01-11-2022	1/11/22	1	Ok
2	Determination of Neutralisation number (Acid value) of oil.	BSE13TEE P02	change in normality		18/1/22	18/1/22	1	Ok
3	Determination of Viscosity by Redwood Viscometer and specific gravity of Biodiesel at different temperatures.	BSE13TEE P03	change 9 1 & 2	Redwood	25/1/22	25/1/22	1	Ok
4	Determination of COD of water sample.	BSE13TEE P04	Natural water samples		02-08-2022	2/8/22	1	Ok
5	Proximate analysis of coal - Determination of % of Moisture and % of Volatile Matter in coal sample	BSE13TEE P05	Different coal Varieties		15/2/22	15/2/22	1	Ok
6	Proximate analysis of coal - Determination of % of ash in coal sample	BSE13TEE P06	Diff coal	variation	22/2/22	22/2/22	1	Ok

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CCOEW/AS / 21-22

Date: 1/ 1 / 2022

LESSON & TEACHING PLAN for Communication Skills

Department of Allied Science

Faculty Name: Prof. Rashmi Deshpande | Sub:Communication Skills | Sec: A,B | Year : 2021-22 | Sem:- I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	3Jan-7Jan	3	I A	Introduction to Communication, Importance of Communication	BESI7TCSW01L01	CS_ppt_01			Communication Skills by Dr. L.Bisen Chap1, self prepared notes		4/1		
				Process of Communication,	BESI7TCSW01L02	CS_ppt_02					6/1		
				Types of communication- Verbal and Non Verbal	BESI7TCSW01L03	CS_ppt_02					7/1		
2	10Jan-13Jan	3	I B	Oral and Written Communication	BESI7TCSW02L04	CS_ppt_04			Communication Skills by Dr. L.Bisen Chap1, self prepared notes		11/1		
				Barriers to Communication and methods to overcome them	BESI7TCSW02L05	CS_ppt_05					15/1		
				Barriers to Communication and methods to overcome them	BESI7TCSW02L06	CS_ppt_06							
3	17Jan-21Jan	3	IV A	asic Grammar: Tenses and its typ	BESI7TCSW02L07	CS_ppt_07			Communication Skills by Dr. L.Bisen Chap8, self prepared notes		21/1		
				asic Grammar: Tenses and its typ	BESI7TCSW02L08	CS_ppt_07							
4	24Jan-	3		asic Grammar: Tenses and its typ	BESI7TCSW02L09	CS_ppt_07							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
4	24Jan-29Jan	3		asic Grammar: Tenses and its typ	BESI7TCS W02L09	CS_ppt_07			self prepared notes				
				Types of Sentences Transformati	BESI7TCS W02L10	CS_ppt_8				29/1			
5	31Jan-5Feb	3	IV B	Assertive-Imperative-Interrogative-Exclamatory	BESI7TCS W02L11	CS_ppt_8			Communication Skills by Dr. L.Bisen Chap8, self prepared notes				
				Assertive-Imperative-Interrogative-Exclamatory	BESI7TCS W02L12	CS_ppt_8				5/2			
				Assertive-Imperative-Interrogative-Exclamatory	BESI7TCS W02L13	CS_ppt_8							
				Reported Speech	BESI7TCS W02L14	CS_ppt_9							
6	7Feb-11Feb	3		Reported Speech	BESI7TCS W02L14	CS_ppt_9				11/2			
				Reported Speech	BESI7TCS W02L15	CS_ppt_9							
	14Feb-19Feb			**Sessional Exam(14Feb-19Feb)**									
7	21Feb-25Feb	3	II A	Listening Skills	BESI7TCS W03L16	CS_ppt_10			Communication Skills by Dr. L.Bisen Chap2, self prepared notes				
				Importance of Listening	BESI7TCS W03L17	CS_ppt_10				21/2			
				Types of Listening	BESI7TCS W03L18	CS_ppt_10							
				Listening Barriers and methods to overcome them	BESI7TCS W03L19	CS_ppt_10				23/2			
8	28Feb-5Mar	3	II B	Effective Speaking Skills	BESI7TCS W03L20	CS_ppt_11			Communication Skills by Dr. L.Bisen Chap3,4, self prepared notes	2/3			
				Components of Public Speaking	BESI7TCS W03L21	CS_ppt_11							
				Components of Public Speaking	BESI7TCS W03L22	CS_ppt_11				5/3			
9	7Mar-11Mar			Overcoming stage fear in public speaking	BESI7TCS W03L23	CS_ppt_11				7/3			
				Group Discussion-Process and techniques	BESI7TCS W03L24	CS_ppt_12				7/3			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
				Group Discussion-Process and techniques	BESI7TCS W03L25	CS_ppt_ 12				7/3			
10	14Mar-19Mar	3	III A	Reading Skills, Importance of Reading	BESI7TCS W03L26	CS_ppt_ 13			Communication Skills by Dr. L.Bisen Chap4, self prepared notes	15/3			
				Sources of Reading, Skimming, Scanning,	BESI7TCS W03L27	CS_ppt_ 13				15/3			
				Sources of Reading, Skimming, Scanning,	BESI7TCS W03L28	CS_ppt_ 13				16/3			
11	21Mar-25Mar	3	II B	Comprehending passage	BESI7TCS W03L29	CS_ppt_ 14			Communication Skills by Dr. L.Bisen Chap7, self prepared notes	16/3			
				Comprehending passage	BESI7TCS W03L30	CS_ppt_ 14							
				Comprehending passage	BESI7TCS W03L31	CS_ppt_ 14							
12	28Mar-31Mar	3	III B	Process and Techniques of Composition	BESI7TCS W03L32	CS_ppt_ 15				19/3			
				-Précis, Paragraph, Essay	BESI7TCS W03L33	CS_ppt_ 15							
				-Précis, Paragraph, Essay	BESI7TCS W03L34	CS_ppt_ 15							

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

R. Deshpande					Communication Skills				Department: AS		Section: A
					Batch A 1			Batch A 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
1	Barrires to Communication	BESI7PCS7/1/22P01			7/1/2022	7/1		7/1/2022	7/1		
2	~~Non Verbal~~ Listening Communication Skills	BESI7PCS21/1/22P02		Verify Vlabs ac. in Listening Skills	21/1/22	21/1		21/1/22	21/1		
3	Speaking Skills	BESI7PCS24/1/22P03			28/1/22	28/1		28/1/22	28/1		
4	Group Discussion	BESI7PCSCS4/2/22P04			4/2/2022	4/2		4/2/2022	4/2		
5	Interview Techniques	BSE1CS4/3/22P05			4/3/2022	3/3		4/3/2022	3/3		
6	Reading Skills	BESI7PCSCS18/3/22P06			18/3/2022	Not taken, course prepared		18/3/2022	Not taken, course prepared,		
7	Presentation Skills	BESI7PCS1CS25/3/22P07			25/3/22	10/3		25/3/22	15/3		

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

R. Deshpande | Communication Skills | Department: AS | Section:B

					Batch B 1			Batch B 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
1	Barrires to Communication	BESI7PCSCS10/1/22P01			10/1/2022	10/1		10/1/2022	10/1		
2	~~Non Verbal~~ Listening skills Communication	BESI7PCSCS17/1/22P02	Paragraph 1 Paragraph 2 Paragraph 3	Ve-iitg.vlabs.ac.in/listeningskills	17/1/22	17/1		17/1/22	17/1		
3	Speaking Skills	BESI7PCSCS24/1/22P03			24/1/22	24/1		24/1/22	24/1		
4	Group Discussion	BESI7PCSCS7/2/22P04			7/2/2022	23/2		7/2/2022	21/2		
5	Interview Techniques	BESI7PCSCS28/2/22P05			28/2/22	2/3		28/2/22	28/2		
6	Reading Skills	BESI7PCSCS7/3/22P06			7/3/2022	[redacted]		7/3/2022	[redacted]	Not taken bcoz course was prepone	
7	Presentation Skills	BESI7PCSCS28/3/22P07			28/3/22	15/3		28/3/22	16/3		

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CCOEW/AS / 21-22

Date: 1/ 2 / 2021

LESSON & TEACHING PLAN for Advanced engineering Materials

Department of Allied Science

Faculty Name:Dr Sanjivani shastri						Sub:Applied Physics		Sec: A,B	Year :
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date
1	18 April to 23 April	3	I	Basic idea of free electron theory of metals, expression of conductivity of a metal. Formation of energy bands in Solids, Fermi energy and Fermi level.	Semi _ppt_01		A textbook of Engineering Physics by Avdhanulu (Edition 2009)Page number (506 to 563,Advvanced Engineering Materials by Dr S shastri (1 to 82)		18-4-22 20-4-22
				Classification of solids on the basis of energy band diagram: Conductors, Semiconductors and Insulators, concept of Fermi energy.	Semi _ppt_02				
				Numericals	Semi _ppt_03				27-4-22 Assignment 28-4-22 Tutorial 1.
2	25 April to 30 April			Types of Semiconductor diodes, P-N junction Diode: Characteristics of P-N junction Diode,	Semi _ppt_04				

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No.		Lect.	No.	Exact Topic Name & Subtopic	PPt ID	Virtual lab link Teaching Aid	Chapter no. Page no,edition. No	link for quiz or poll Assignment / Tutorial	Completion Date
		4	II	Tunnel Diode, Zener Diode, LED, Photodiode.Transistors . Hall effect, Hall voltage and Hall coefficient; its applications,	Semi _ppt_05				28/4/22 GVS
				Numericals	Semi _ppt_06				2/5/22 GVS
3	2 May to 7 May	4	4	Quantum Transitions: Absorption, Spontaneous emission & stimulated Emission,	Laser _ppt_01		A textbook of Engineering Physics by Avdhanulu (Edition 2009)Page number395-421, Advanced Engineering Materials by Dr S shastri (138 to 166)	22/4/22 Asig 1 Tutorial 1	2[illegible]
				, Metastable states, Principle of laser, Laser characteristics, Coherence length and coherence time,	Laser _ppt_02			Tutorial 2 Asig 2 13/5/22	[illegible] 16/5/22 GVS
4	9 May to 14 May	3	IV	Pumping schemes: Three level and Four level.	Laser _ppt_03				20/5/22
				Optical Resonator,	Laser _ppt_04				20/5/22
				Ruby laser and He-Ne laser,	Laser _ppt_05				23/5/22

Faculty in Charge GVS

HOD GVS

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr.S.Shastri			Advanced engineering Materials			Department: AS		
			BatchC 1			Batch C 2		
Pi	Name of experiment	Possible variations used	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions
print	print		print	fill	fill	print	fill	fill
1	V-I characteristics of Semiconductor diodes		21-04-2022	21/4/22		22-04-2022	22/4/22	
2	Input, output and current transfer characteristics ofNPN transistor in CE mode		28-04-2022	28/4/22		29-04-2022	29/4/22	
3	V-I characteristics of Zener diodes.	Diodes with different Zener voltage	05-05-2022	5/5/22		06-05-2022	6/5/22	
4	Input, output and current transfer characteristics of NPN transistor in CB		12-05-2022	12/5/22		13-05-2022	13/5/22	
5	Study of Diode as a rectifier		19-05-2022	19/5/22		20-05-2022	20/5/22	
6	Study of LED	use of Diodes with different colors (cut-in vol.)	09-06-2022	26/5/22		10-06-2022	27/5/22	
7	Determination of band gap Energy of Semiconductor		23-06-2022	—	—	24-06-2022	—	

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CCOEW/AS / 21-22

Date: 18/ 4 / 2022

LESSON & TEACHING PLAN for Advanced Engineering Materials

Department of Allied Science

Faculty Name:Dr Shubhangi Bompilwar | Sub:Advanced Engineering Materia | Sec: C | Year : 2021-22 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	18-23 April 22	2	I	*Band Theory of Solids* : Basic idea of free electron theory of metals,	PPt	BB	A testbook of Engineering physics (page number 506-526)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		20/4/22		
				Expression of conductivity of a metal. Drift velocity, mean free path					21/4		
2	25-30 April 22	4		Formation of energy bands in SolidsClassification of solids on the basis of energy band diagram:					22/4/22 to	26/4/22	
				Conductors, Semiconductors and Insulators,					27/4/22		
				concept of Fermi energy.Fermi energy and Fermi level.Concept of effective mass,							
				Numericals		BB					
3	2-7 May 22	4	II	***Semiconductor Devices:*** Basics of Semiconductor, conduction process		PPT	A testbook of Engineering physics,M N		28/4		
				characteristics of P-N junction Diode: ,,Tunnel Diode, Zener Diode,		BB			29/4		
				, LED, Photodiode.					2/5		
				Transistors					5/5/22		

Faculty in Charge

HOD

MKSSS's Cummins College of Engineering for Women, Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	9-14 May 22	3		Hall effect, Hall voltage and Hall coefficient:			Avadhanulu (page number 527- 607)		9-11 may 22	AS-2 11 may 22	
				applications of Hall Effect		BB					
				Numericals							
				Numericals							
5	16-21 May 22	4	III	*Magnetic and Superconducting Materials: I* ntroduction to magnetic materials, magnetic field,			A testbook of Engineering physics,M N Avadhanulu (page number 608- 664)		16/6/22 to 15/6/22		
				magnetic dipole moment, magnetic induction,magnetization, magnetic susceptibility, magnetic permeability,		PPT projector					
				Diamagnetic, Paramagnetic, Ferromagnetic, Ferri-magnetic and anti ferromagnetic materials:							
6	23-26 May 22	2		Properties of mag. Materials					16/6 to 18/6/22		
				Hysteresis curve, Applications of magnetic materials							
7	27 May -4 June 22	Sessional I									
8	6-11 June	4	III	***Superconductors:*** Basics of superconductivity: Zero electrical resistance		BB & chalk	A testbook of Engineering physics,M N Avadhanulu (page		20/6 to 21/6		
				Persistent current Effect ofTemperature, Effect of Magnetic Field, Critical Current;							
				The Meissner Effect.Type-I and type-II superconductors, London Equation:		projector + PPT					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				The penetration depth, Bardeen-Cooper-Schrieffer (BCS) theory.			Avadhanulu (page number 608- 664)		22/6 to 23/6/22		
				Numericals		BB & chalk					
				Numericals							
9	13-18 June	4	IV	*Lasers:* Quantum Transitions: Absorption, Spontaneous emission & stimulated Emission,					12-17 may 22	AS-3 13/6/22	
				Coherence length and coherence time,Metastable states, Principle of laser		BB & chalk					
				Pumping schemes: Three level and Four level. Optical cavity			A testbook of Engineering physics,M N Avadhanulu (page number 395- 421)				
				Characteristics and applications of lasers					18-21 may 22	https://docs.google.com/forms/d/1w9pB_807SN9MLk08VR84GaH2m3	
10	20-26 June 22	4		Construction & working of Ruby laser and He-Ne laser,		PPT projector					
				Numericals					7-8 June 22		
11	27-30 June 22	3	IV	Numericals		BB					
				Test/Revision							
				Test/Revision		G-forms			24/6/22		
				Nanoscience and Nanomaterials			A testbook of Engineering physics (page number 608		27/6/22		
				Introduction to Nanoscience, Classification of nano materials,							

Faculty in Charge **HOD**

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	4-9 July 22	4	V	with bulk materials, Some special nanomaterials		projector	Number 698-725)10th Edition ,Atextbook of Applied physics(5.1 to 5.31) first edition		28/6/22		
				Zeolites, 2) Graphine, Application of nanomaterials in engineering					29/6/22		

Sub. Teacher

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Faculty in Charge

HOD

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr.S.Bompilwar | Advanced Engineering Materials | Department: AS | Section:A

Pr. No.	Name of experiment	Lab ID	Possible variations	Batch A1 Planned Date	Batch A1 Perform Date	Batch A1 No. of Viva done and	Batch A2 Planned Date	Batch A2 Perform Date	Batch A2 No. of Viva done and	Ac's Remark
print	print			print	fill	fill	print	fill	fill	fill
1	Parameter extraction from V-I characteristics of PN junction diode.		Si, Ge diode	18/4/22	18/4	✓	20/4	20/4/22	✓	
2	Parameter extraction from V-I characteristics of PNP/NPN transistor in CE mode		-	25/4/22	25/4	✓	27/4	27/4/22	✓	
3	Parameter extraction from V-I characteristics of Zener diode.		zener diode with diff Vz.	02-05-2022	2/5/22	✓	5/5/22	05-05-2022	✓	
4	Parameter extraction from V-I characteristics of PNP/NPN transistor in CB mode			16/5/22	9/5/22	✓	18/5	18/5/22	✓	
5	V-I Characteristics of Light Emitting Diodes.		used diff. diodes	30/5/22	23/5	✓	7/6/22	06-01-2022	✓	
6	Study of Diode rectification		variation i/p voltage	13/6/22	6/6/22	✓	15/6/22	15/6/22	✓	
7	Laser source: Determination of wavelength by diffraction grating		variation in dist.	27/6/22	20/6/22	✓	22/6/22	29/6/22	✓	

Sub. Teacher

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CCOEW/AS /21-22

Date: 18-4-2022

LESSON & TEACHING PLAN for Applied Chemistry

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam | Sub: Applied chemistry | Sec: A,B,C | Year : 2021-22 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	18-23 April	4	3	Basic concept of free energy and EMF	BSE2-3TACW01D020621L0	AC_ppt_01		To classify the substance in day to day life as metallic and non metallic and study the corrosion types in it	P.C.Jain and M. Jain 329-354		18/4/22		
				Cell potential , Nernst equation and its application	BSE2-3TACW01D020621L02						19/4/22		
				Corrosion, definition, causes , theories	BSE2-3TACW01D020621L0						20/4/22		
				Dry wet, differential aeration	BSE2-3TACW01D020621L0						21/4/22		
2	25-30 April	6		Types of corrosion,pitting, stress, intergranular corrosion	BSE2-3TACW01D020621L05						22/4/22		
				prevention and control of corrosion	BSE2-3TACW01D020621L0						25/4/22		
				Design, material selection, cathodic protection	BSE2-3TACW01D020621L0						27/4/22		
				Tutorial lecture	BSE2-3TACW01D020621L0						27/4/22		
			5	Green chemistry, introduction,	BSE2-3TACW01D020621L0						28/4/22		
				Twelve principles of green chemistry	BSE2-3TACW01D020621L0						29/4/22		
				Numericals on atom economy	BSE2-3TACW01D020621L011			Numericals to be solved by			29/4/22		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	2-7 may	6		Carbon sequestration, carbon credits	BSE2-3TACW01D020621L017	AC_ppt_02		be solved by the students	S. Dara 814-74		2|5|22		
				Dimethyl carbonate and its application	BSE2-3TACW01D020621L013						3|5|22	3|5|22	
				Supercritical Carbon dioxide and its applications	BSE2-3TACW01D020621L014						4|5|22		
				Uses and applications of biopolymers	BSE2-3TACW01D020621L015						5|5|22		
				Tutorial lecture	BSE2-3TACW01D020621L0								
4	9-14may	6	6	Importance of pH, alkalinity, hardness of water	BSE2-3TACW01D020621L0	AC_ppt_03		To identify the coagulating agents in day to	S. Dara 22-6		10|5|22		
				Domestic water treatment, brief discussion of coagulation by various reagents	BSE2-3TACW01D020621L018								
				Sterilisation by using ozone , chlorine	BSE2-3TACW01D020621L0						11|5|22		
				Break point chlorination	BSE2-3TACW01D020621L0						12|5|22		
				Softening of water by zeolite process, reactions, advantages, limitations	BSE2-3TACW01D020621L0						13|5|22		
				Softening of water by ion exchange process, reactions, advantages,	BSE2-3TACW01D020621L0								
5	16-21 may	5		Numericals on zeolite process	BSE2-3TACW01D020621L0			Numericals to be solved by the students			16|5|22		
				Numericals on zeolite process	BSE2-3TACW01D020621L0						17|5|22		
				Boiler troubles, causes, effects and its prev	BSE2-3TACW01D020621L0						18|5|22		
				Scales, sludges, caustic embrittlement	BSE2-3TACW01D020621L0								
				Desalination of sea water by electrodialysis and reverse osmosis	BSE2-3TACW01D020621L0								
				Waste water treatment, memberane biore	BSE2-3TACW01D020621L0						6|6|22		
				Tutorial lecture	BSE2-3TACW01D020621L0								

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	23-27 may	6	1	Effective nuclear charge, penetration of atomic orbitas	BSE2-3TACW01D020621L030							23/5/22	
				Electronic configuration, periodic trend of atomic and ionic sizes.	BSE2-3TACW01D020621L0			To draw a chart of trends in atomic properties				25/5/22	
				ionisation energy, electron affinity,	BSE2-3TACW01D020621L0							26/5/22	
				Electronegativity, polarizability	BSE2-3TACW01D020621L0							27/5/22	
	27may-4			SESSIONAL I									
7	6-11 june	5		Atomic and molecular orbitals	BSE2-3TACW01D020621L0	AC_ppt_04			Applied chemistry by Dr. Avinash Bharati			6/6/22	
				molecular orbital theory and energy level diagram of homo diatomic	BSE2-3TACW01D020621L0							7/6/22	
				Energy level diagram of hetero diatomic molecules	BSE2-3TACW01D020621L0							8/6/22	
				Crystal field theory	BSE2-3TACW01D020621L0							10/6/22	
				Energy level diagram of transition metal ions	BSE2-3TACW01D020621L0								
8	13-18 june	5		Magnetic properties of tetrahdral and octahedral complexes	BSE2-3TACW01D020621L0							13/6/22	
				Tutorial lecture	BSE2-3TACW01D020621L0							14/6/22	
			2	Thermodynamic functions, entropy, enthalpy, free energy	BSE2-3TACW01D020621L0							15/6/22	
				Brief introduction of system, surrounding, intensive and extensive	BSE2-3TACW01D020621L0							16/6/22	
				Definition and basic concept internal energy	BSE2-3TACW01D020621L0							17/6/22	
				Numerical on internal energy and entha	BSE2-3TACW01D020621L0							18/6/22	
				Numerical on internal energy and entha	BSE2-3TACW01D020621L0	AC_ppt_05						21/6/22	
				Zeroth law, first law Second law of thermodynamics	BSE2-3TACW01D020621L0							22/6/22	
9	20-25	6											

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
9	june	6		Reversible, irreversible reactions	BSE2-3TACW01D020621L0 47						23/6/22		
				Use of Gibbs free energy in chemical equilibrium and oxidation reduction	BSE2-3TACW01D020621L0 48						24/6/22		
				Tutorial lecture	BSE2-3TACW01D020621L0 49								
10	27-30 june	6	4	Principle of spectroscopy and selection rules	BSE2-3TACW01D020621L0 50	AC_ppt_06		To draw the NMR spectra of 10 aliphatic and aromatic compounds	Y. R. Sharma, The book of spectroscopy		29/6/22		
				Electronic spectroscopy, Lambert Beer's Law	BSE2-3TACW01D020621L0 51						30/6/22		
				Woodward, Fischer rule for conjugated dienes	BSE2-3TACW01D020621L0 52								
				Fluroscence, phosphorescence , Jablonski diagram	BSE2-3TACW01D020621L0 53						4/7/22		
11	4-9 july	6		NMR spectroscopy, basic principles	BSE2-3TACW01D020621L0						5/7/22		
				Chemical shift, spectral interpretation	BSE2-3TACW01D020621L0						7/7/22		
				NMR spectra to draw for various compounds	BSE2-3TACW01D020621L0						7/7/22		
				Magnetic resonance imaging spectrosc	BSE2-3TACW01D020621L0								
12	11-18 july	Sessional II											

Sub. Teacher
Dr. A.H. Gedam

AC
Dr. A. H. Gedam

Faculty in Charge

AC

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Section B

Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr. Asha H. Gedam | Applied Chemistry | Department: AS | Section:A B,C

Section B1 | B2

Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva question	Ac's Remark
print	print				print	fill	fill	print	fill	fill	fill
1	Determination of hardness of water by complexometry method	BSE2-3PAC9621P01			19/4/22	3/5/22		29/4/22	4/5/22		
2	To determine type and extent of alkalinity of given water sample	BSE2-3PAC16621P02			26/4/22	10/5/22		27/4/22	11/5/22		
3	Determination of free chlorine by iodometry	BSE2-3PAC23621P03			3/5/22	17/5/22		4/5/22	18/5/22		
4	Determination of dissolved oxygen	BSE2-3PAC30621P04			10/5/22	10/5/22		11/5/22	11/5/22		
5	Determination of ferrous / ferric by redox titration	BSE2-3PAC7721P05			17/5/22	17/5/22		18/5/22	18/5/22		
6	Synthesis of polymer	BSE2-3PAC14721P06			7/6/22	7/6/22		8/6/22	8/6/22		
7	Virtual demonstration of Lambert Beer's Law	BSE2-3PAC28721P07			14/6/22	14/6/22		15/6/22	15/6/22		
8	Demonstration of thin layer chromatography	BSE2-3PAC4821P08			21/6/22	21/6/22		22/6/22	22/6/22		

Sub. Teacher
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CCOEW/AS/ 21-22

Date: 18 /04/2022

LESSON & TEACHING PLAN for Indian Culture and Constitution

Department of Allied Science

Faculty Name: Prof. Priyadarshini Ramteke | Sub: Indian Culture & Constitution | Sec: C | Year : 2020-21 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	18 - 24 April	2	I	Concept of Culture & Civilization						21/4/22		
				Difference between culture and civilization						28/4/22		
				Vedic Culture & Civilization								
2	26 - 30 April	2		Indus valley Civilization						10/5/22		
			II	Social Engineerng						5/5/22		
				Meaning and Scope of Industrial Psychology						28/4/22		
3	2 - 7 May	2		Meaning and Scope of Industrial Sociology						12/5/22		
				Recruitment of workers						12/5/22		
4	9 - 14 May	2		Selection Procedure						16/5/22		
				Training in industry						17/5/22		
5	16 - 21 May	2	III	Theories of Motivation						19/5/22		
				Sustainable Development						6/6/22		
				Social Change						GD		
6	23 - 26 May	1		Concepts and styles of leaderships						Assignment		
										10/6/22		

Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
27 May - 4 June			SESSIONAL - I									
7	6 - 11 June	2	IV	Indian Constitution					14/6/22			
				Federal System					14/6/22			
8	13 18 June	2		Fundamental Rights					16/6/22			
				Directive Principles of state policy					Assignment			
9	20 - 25 June	2		Bureaucracy					19/6/22			
			V	Industrial Democracy					19/6/22			
				Line Organization, Line & Staff Organization					21/6/22 22/6/22			
10	27 June - 2 July	2		Functional Organization					22/6/22			
				Power and Status					28/6/22			
11	4 - 9 July	2		Delegation of Authority					Assignment			
				Industrialization and Urbanization & Slums					30/6/22			
11 - 18 July			Sessional II									

Sub. Teacher

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CCOEW/AS/ 21-22

Date: 18 /04/2022

LESSON & TEACHING PLAN for Indian Culture and Constitution

Department of Allied Science

Faculty Name: Prof. Priyadarshini Ramteke | Sub: Indian Culture & Constitution | Sec: B | Year : 2020-21 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	18 - 24 April	2	I	Concept of Culture & Civilization						22/4/22		
				Difference between culture and civilization						25/4/22 29/4/22		
				Vedic Culture & Civilization						6/5/22		
2	26 - 30 April	2		Indus valley Civilization						2/5/22		
			II	Social Engineerng						29/4/22		
				Meaning and Scope of Industrial Psychology						9/5/22		
3	2 - 7 May	2		Meaning and Scope of Industrial Sociology						9/5/22		
				Recruitment of workers						11/5/22		
4	9 - 14 May	2		Selection Procedure						16/5/22		
				Training in industry						20/5/22		
5	16 - 21 May	2	III	Theories of Motivation						10/6/22		
				Sustainable Development						GD		
				Social Change						Assignment		
6	23 - 26 May	1		Concepts and styles of leaderships						15/6/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
27 May - 4 June			SESSIONAL - I									
7	6 - 11 June	2	IV	Indian Constitution					17/6/22			
				Federal System					17/6/22			
8	13 18 June	2		Fundamental Rights					20/6/22			
				Directive Principles of state policy					Assignment			
				Bureaucracy					20/6/22			
9	20 - 25 June	2	V	Industrial Democracy					21/6/22			
				Line Organization, Line & Staff Organization					21/6/22			
10	27 June - 2 July	2		Functional Organization					27/6/22			
				Power and Status					29/6/22			
11	4 - 9 July	2		Delegation of Authority					Assignment			
				Industrialization and Urbanization & Slums					30/6/22			
11 - 18 July			Sessional II									

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CCOEW/AS / 21-22

Date: 03/01/2022

LESSON & TEACHING PLAN for Applied Maths-I

Department of Allied Science

Faculty Name: Prof. Pravin Gorantiwar | Sub: Mathematics-I | Allied Science | Year : 2021-22 | Sem:- I (sec B)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	03 Jan - 08 Jan	5	III	Unit 3: Matrices Introduction		PDF-I-03		B.S. Grewal, Higher Engineering Mathem				
				Inverse of a matrix by Partitioning method								
				Rank of a matrix						07-01-2022		
2	10 Jan - 15 Jan	5	III	Consistency of linear system of nonhomogeneous		PDF-I-03		B.S. Grewal, Higher Engineering Mathem				
				Homogeneous system of Linear equations								
				Symmetric, Skew-symmetric and Orthogonal matrices								
				Linear and Orthogonal transformations						15-01-2022	15-01-22	
3	17 Jan - 22 Jan	5	III	Cayley-Hamilton theorem				B.S. Grewal, Higher Engineering Mathem		17-01-2022		
			I	Unit 1: Differential Calculus Successive differentiation: Leibnitz's Rule		PDF-I-01						
				Taylor's and Maclaurin's series for function of one variable						25-01-2022	29.01.22	
4	24 Jan - 29 Jan	5	I	Indeterminate forms and L'Hospital's Rule		PDF-I-01		D. T. Deshmukh, Higher Engineering Mathematics				
				Maxima and Minima for function of one variable.						04-02-2022		
			II	Unit 2: Multivariable Calculu Differentiation Functions of several variables		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics		05-02-2022		
5	31 Jan - 05 Feb	5	II	First and Higher order partial derivatives		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics				
				Euler's theorem		PDF-I-02						
				Chain rule and Total differential coefficient								

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
6	07 Feb - 12 Feb	3	II	Jacobians, Taylor's and Maclaurin's series for function of two variables		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics		23-02-2022		
7	14 Feb - 19 Feb	6	Sessional - I Examination									
8	21 Feb - 26 Feb	5	II	Maxima and Minima for function of two variables Lagrange's method of undetermined multipliers		PDF-I-02		D. T. Deshmukh, Higher Engineering Mathematics		27-02-2022		
9	28 Feb - 05 March	5	IV	Unit 4: First Order Ordinary Differential Equations Linear and Bernoulli's equation		PDF-I-04		B.S. Grewal, Higher Engineering Mathem		01-03-2022		
10	07 Mar - 12 Mar	5	IV	Equations of first order and higher degree: Solvable for p, y, x and Clairaut's type Application of first order differential equation to simple electrical circuits		PDF-I-04		B.S. Grewal, Higher Engineering Mathem		04-03-2022		
11	14 Mar - 19 Mar	5	V	Unit 5: Higher Order Ordinary Differential Equations Higher order ordinary linear differential equations with constant coefficients Method of variation of parameters,		PDF-I-05		B.S. Grewal, Higher Engineering Mathematics		06-03-2022		
12	21 Mar - 26 Mar	5	V	Cauchy's and Legendre's homogeneous differential equations. Simultaneous differential equations		PDF-I-05		B.S. Grewal, Higher Engineering Mathematics		07-03-2022 09-03-2022	09.03.22	
13	28 Mar - 31 Mar	4	V	Equations of the type d2y/dx2=f(x) and d2y/dx2=f(y) Applications of higher order differential equations to simple electrical circuits		PDF-I-05		B.S. Grewal, Higher Engineering Mathematics		15-03-2022		
14	04 April - 8 April		Sessional- II Examination									

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CCOEW/AS / 21-22

Date: 03/01/2022

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

Faculty Name: Prof.Sneha Uttarwar | Sub: Mathematics-I | Allied Science | Year : 2021-22 | Sem:- I (sec A)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	03 Jan - 08 Jan	5	III	Unit 3: Matrices Introduction				B.S. Grewal, Higher Engineering Mathem				
				Inverse of a matrix by Partitioning method								
				Rank of a matrix					8/01/22			
2	10 Jan - 15 Jan	5	III	Consistency of linear system of nonhomogeneous				B.S. Grewal, Higher Engineering Mathem	10/01/22			
				Homogeneous system of Linear equations								
				Symmetric, Skew-symmetric and Orthogonal matrices					10/01/22			
				Linear and Orthogonal transformations					11/01/22			
			III	Cayley-Hamilton theorem					12/01/22			
3	17 Jan - 22 Jan	5	I	Unit 1: Differential Calculus Successive differentiation: Leibnitz's Rule				B.S. Grewal, Higher Engineering Mathem	15/01/22 Tutorial-I Assg-I			
				Taylor's and Maclaurin's series for function of one variable					24/01/22			
4	24 Jan - 29 Jan	5	I	Indeterminate forms and L'Hospital's Rule				D. T. Deshmukh, Higher Engineering Mathematics	28/01/22			
				Maxima and Minima for function of one variable.					01/02/22			
			II	Unit 2: Multivariable Calculu Differentiation Functions of several variables				D. T. Deshmukh, Higher Engineering Mathematics	04/02/22 Tutorial-II			
5	31 Jan - 05 Feb	5	II	First and Higher order partial derivatives				D. T. Deshmukh, Higher Engineering Mathematics				
				Euler's theorem					07/02/22 Test		Assign-02	
				Chain rule and Total differential coefficient								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
6	07 Feb - 12 Feb	3	II	Jacobians, Taylor's and Maclaurin's series for function of two variables				D. T. Deshmukh, Higher Engineering Mathematics	10/02/22	10/02/22		
7	14 Feb - 19 Feb	6	Sessional - I Examination									
8	21 Feb - 26 Feb	5	II	Maxima and Minima for function of two variables Lagrange's method of undetermined multipliers				D. T. Deshmukh, Higher Engineering Mathematics		22/02/22		
9	28 Feb - 05 March	5	IV	Unit 4: First Order Ordinary Differential Equations Linear and Bernoulli's equation				B.S. Grewal, Higher Engineering Mathem		23/02	Assig-03	
10	07 Mar - 12 Mar	5	IV	Equations of first order and higher degree: Solvable for p, y, x and Clairaut's type Application of first order differential equation to simple electrical circuits				B.S. Grewal, Higher Engineering Mathem		05/03 Tutorial-III		
11	14 Mar - 19 Mar	5	V	Unit 5: Higher Order Ordinary Differential Equations Higher order ordinary linear differential equations with constant coefficients Method of variation of parameters,				B.S. Grewal, Higher Engineering Mathematics		07/03 08/03		
12	21 Mar - 26 Mar	5	V	Cauchy's and Legendre's homogeneous differential equations. Simultaneous differential equations				B.S. Grewal, Higher Engineering Mathematics		09/03 Tutorial-IV		
13	28 Mar - 31 Mar	4	V	Equations of the type d2y/dx2=f(x) and d2y/dx2=f(y) Applications of higher order differential equations to simple electrical circuits				B.S. Grewal, Higher Engineering Mathematics		18/03 19/03		
14	04 April - 8 April		Sessional- II Examination									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
3	17 Jan to 22 Jan22	4	II	Expression for Compton shift & its interpretation,de Broglie hypothesis	Quant _ppt_01+ 02		A testbook of Engineering physics (page number 304-394)10th Edition ,Atextbook of Applied physics(2.1 to 3.23) first edition			18-1-22	
				Concept of wave-particle duality, de-Broglie Hypothesis	Quant_ppt_02					18-1-22	
4	24 Jan to 29 Jan 22	4		Matter Waves, Davisson-Germer Experiment; Bohr's Quantization condition.	Quant_ppt_02					25-1-22	
				numericals	Quant_ppt_03					26-1-22	
5	31 Jan to 5 Feb	4		Wave function Ψ and normalization condition, concept of wave packets,	Quant_ppt_03					29-1-22	
				Heisenberg Uncertainty Principle.	Quant_ppt_03					1-2-22	
				Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite potential well.	Quant_ppt_04				2-2-22 (Assign) 2-2-22 (Tutorial)	2-2-22	
6	7 Feb to 12 Feb 22	3		Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite	Quant_ppt_04					1-2-22	
7	14 Feb to 19 Feb	Sessional I									
8	21 Feb to 26Feb 22	3		Huygen's principle, superposition of waves	Inter _ppt_05		A testbook of Engineering				
				interference of light by wavefront splitting and amplitude splitting,	Inter _ppt_05					29-1-22	
9		4		Interference in thin films,	Inter _ppt_05					31-1-22	
				, Interference in Wedge shape thin film,	Inter _ppt_06					11-3-22	
				Newton's rings, Anti-reflection coating.	Inter _ppt_06					12-3-22	

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K No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
			I	Fraunhoffer diffraction from a single slit and a circular aperture, Diffraction grating and its resolving power.	Inter _ppt_07		physics (page number 468-505)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		12-3-22		
10	28 Feb to 5 March 22	4		Fraunhoffer diffraction from a single slit and a circular aperture, Diffraction grating and its resolving power.	Inter _ppt_07				14-3-22		
					Inter _ppt_07				14-3-22		
					Inter _ppt_07				14-3-22		
11				Numericals	Inter _ppt_08				15-3-22		
	7March to 12 March 22	4		numericals	Inter _ppt_08				15-3-22		
			IV	Optical fibers: Propagation by total internal reflection, structure and classification	OP_ppt_01				2-3-22		
									3-3-22		
12				Modes of propagation in fiber, Acceptance angle, Numerical aperture, Attenuation and dispersion.	OP_ppt_01				4-3-22		
	14 march to 19	5	IV	Acceptance angle, Numerical aperture, Attenuation and dispersion.	OP_ppt_02		A testbook of Engineering physics (page		5-3-22		

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K No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
	march 22			Light sources and Detectors, Applications of optical fiber as Sensors - i) Temperature Sensor ii) Pollution / Smoke detector	OP_ppt_02		number 698-725)10th Edition ,Atextbook of Applied physics(5.1 to 5.31) first edition		7-3-22		
13	21 march to 26 March	4	IV	iii) Liquid level sensor, Fiber optic communication system.	OP_ppt_02				7-3-22		
				Numericals	OP_ppt_03				7-3-22		
				Numericals	OP_ppt_03				7-3-22		
14				Devices: Cathode Ray Tube, Cathode Ray Oscilloscope and its applications,	Devi_ppt_01				9-2-22 11-2-22		
	28 March to 31 March	3		Function & working of each block, Bainbridge mass spectrograph.	Devi_ppt_02		A testbook of Engineering physics (page number 70-104)10th Edition ,Atextbook of Applied		21-2-22 25-2-22	Assign 3 25-2-22 Tutorial 3 25-2-22	

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Lab Practicals Plan

Classes separated on 21st Feb. Formed new Section C.

CCOEW/ Department of Allied Science 2021-22

Dr.S.Shastri | Applied Physics | Department: AS | Section: B

					Batch B 1 / C1			Batch B 2 / C2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
1	comparative study of cubic crystal structure			https://vlab.amrita.edu/?sub=1&brch=282&sim=370&cnt=1	12-01-2022	12-01-22	online	12-01-2022	12-01-22		
2	Newtons rings			https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=1520&cnt=1	19-01-2022	19-01-22	online	19-01-2022	19-1-22		
3	Determination of angle of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1508&cnt=1	02-02-2022	2-2-22	online	02-02-2022	2-2-22		
4	RI of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1513&cnt=1	09-02-2022	9-2-22	online	09-02-2022	9-2-22		
5	Plane diffraction grating			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=334&cnt=1	02-03-2022	2-3-22	offline	02-03-2022	2-3-22		
6	NA of optical fiber			https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=343&cnt=1	16-03-2022	16-3-22	online	16-03-2022	16-3-22		
7	Detrmination of AC and DC voltage using CRO			https://www.svce.ac.in/acdcsignal/simulation.html	23-03-2022	23-3-22	offline	23-03-2022	23-3-22		

Sub. Teacher

Ac

Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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CCOEW/AS / 21-22

Date: 17/ 1 / 2022

LESSON & TEACHING PLAN for Applied Physics

Department of Allied Science

Faculty Name:Dr Shubhangi Bompilwar						Sub:Applied Physics		Sec: C	Year : 2021-22		Sem:- I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	17 Jan to 22 Jan22	4	II	comparison of classical and quantum mechanics	Quant _ppt_01+ 02		A testbook of Engineering physics (page number 368-405)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		17 JAN to 22 JAN.		
				Plancks hypothesis , Einsteins theory of photons, Concept of wave-particle duality	Digital slet with one note						
				Compton effect, Expression for Compton shift & its interpretation,de Broglie hypothesis	Digital slet with one note						
				, de-Broglie Hypothesis	Digital slet with one						
4	24 Jan to 29 Jan 22	4		Matter Waves, Davisson-Germer Experiment; Bohr's Quantization condition.	Digital slet with one note				24 JAN to 29 JAN.		
				numericals	Digital slet with one						
5	31 Jan to 5 Feb	4		Wave function Ψ and normalization condition, concept of wave packets,	Digital slet with one note				31-JAN to 5 FEB.	30 JAN 2021	
				Heisenberg Uncertainty Principle.	Digital slet with one						
				Numericals	Digital slet with one						

Faculty in Charge

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Schrodinger wave equation (time dependent and time independent), Application to one dimensional infinite potential well.	Digital slet with one note				7 Feb to 22 Feb		
6	7 Feb to 12 Feb 22	3		Electron Optics , Bethe's law, Lecetrostatic lens, Numericals	Digital slet with one note						
7	14 Feb to 19 Feb	Sessional I (15Mar-20Mar)									
8											
				Electrostatic lens, CRT	BB				21 Feb to 26 Feb		
9	21 Feb to 26Feb 22	5		CRO Block diagram and functions							
				Components of CRO and its working							
				Bainbridge Mass spectroscope		Black Board					
				Numericals							
10			IV	Optical fibers: Propagation by total internal reflection, structure and classification	BB		A testbook of Engineering physics (page number 468-505)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		28 Feb to 5 March		
	28 Feb to 5 March 22	4		Attenuation, loss mechanism,							
				Applications of OF							
11				Numericals							
	7March to 12 March 22	4		Wave optics, interfereance in Wedge shaped thin filmApplications of wedge shaped thin film	BB			5 march 2022	7 march to 12 march	https://docs.google.com/forms/d/1w9pB_807SN9MLk08VRB4GaH2m3092xvau6zHO6gqeTU/edit	
			I	, AR coating,newtons ring expt and its applications							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	14 march to 19 march 22	5	IV	Numericals	BB		A testbook of Engineering physics (page number 698-725)10th Edition ,Atextbook of Applied physics(5.1 to 5.31) first edition		14 March	10 march 2022	
				Diffraction, its types,					to		
				Diffraction grating, resolving power	BB				22 to 19 March		
				numericals Revision							

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr.S.Bompilwar | Applied Physics | Department: AS | Section:A

					Batch A 1			Batch A2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
pri	print				print	fill	fill	print	fill	fill	fill
1	comparative study of cubic crystal structure			https://vlab.amrita.edu/?sub=1&brch=282&sim=370&cnt=1	13-01-2022	13/1/22	✓	13-01-2022	13/1/22	✓	
2	Newtons rings		different source of lights + lens	https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=1520&cnt=1	20-01-2022	20/1/22	✓	20-01-2022	20/1/22	✓	
3	Determination of angle of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1508&cnt=1	03-02-2022	27/1/22	✓	03-02-2022	27/1/22	✓	
4	RI of prism			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=1513&cnt=1	10-02-022	27/1/22	✓	10-02-2022	27/1/22	✓	
5	Plane diffraction grating			https://vlab.amrita.edu/index.php?sub=1&brch=281&sim=334&cnt=1 LAB	03-03-2022	3/2/22	✓	03-03-2022	5/2/22	✓	
6	NA of optical fiber		Light source	https://vlab.amrita.edu/index.php?sub=1&brch=189&sim=343&cnt=1	17-03-2022	2/3/22	✓	17-03-2022	2/3/22	✓	
7	Detrmination of AC and DC voltage using CRO		Freq. Variation	https://www.svce.ac.in/acdcsignal/simulation.html LAB	24-03-2022	21/2/22	✓	24-03-2022	23/2/22	✓	

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CCOEW/Allied Science/ 21-22 Date: 28 / 12 / 2021

LESSON & TEACHING PLAN for BCME

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam						Sub: EE	Section-A & B		Year : 2021-22		Sem:- 1
WEEK No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	03 Jan - 08 Jan	4	1	• Basics of Energy - Introduction, sources and types of energy, Units of energy, Thermal Basics of energy - fuels, thermal energy contents of fuel, heat capacity, sensible and latent heat, evaporation, condensation, steam, moist air and humidity & heat transfer. • Classification of fuels,	AC_AS_ppt_01		PPT.	Energy and environment Dr.AV Bharati pg.1-42		4/1/22 5/1/22 7/1/22 7/1/22		
2	10 Jan - 15 Jan	4	1	Calorific Value (HCV & LCV). Determination of Calorific value by Bomb and Boy's Calorimeter. • Solid Fuels:- Significance of Proximate and Ultimate Analysis of coal, • Numerical based on Dulong's formula	AC_AS_ppt_02			Energy and environment Dr.AV Bharati pg.1-42		10/1/22 11/1/22 13/1/22 15/1/22	11/1/22	
				• Numerical on Goutal's Formula for Gross Calorific Value based on Proximate Analysis	AC_AS_ppt_03					15/1/22		

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EEK No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	17 Jan - 22 Jan	4	1	• Numerical on Calorific Value determination. • Numerical on GCV & NCV by using relation formula (convert answer in joules or one of the CV given in joules)				Energy and environment Dr.AV Bharati pg.1-42		18/1/22 19/1/22 20/1/22		
4	24Jan - 29 Jan	4	2	• Liquid Fuel:-Fractional distillation of crude oil, Catalytic cracking and its advantages • Knocking in internal combustion petrol and diesel engine, Octane and Cetane number,	AC_AS_ppt_04			Energy and environment Dr.AV Bharati pg.43-96		21/1/22 23/1/22 29/1/22 31/1/22	31/1/22	
5	31 Jan - 05 Feb	4	2	Knocking and its relationship with structure of fuel, Doping agents, • Power alcohol, Gasohol, Diesehol. Aviation fuel, Bio-diesel. • Gaseous Fuel:-CNG, H2 as specialised fuel • Combustion Calculations	AC_AS_ppt_05			Energy and environment Dr.AV Bharati pg.43-96		1/2/22 2/2/22 3/2/22 5/2/22		
6	07 Feb - 12 Feb	4	3	• Bio-energy, Photolysis of water-Chemical Conversion of Solar Energy. • Nuclear fuels: Numerical on Binding Energy & Average Binding Energy per Nucleon • Fuel cells- working, advantages and disadvantages of alkaline, methanol fuel cells	AC_AS_ppt_06			Energy and environment Dr.AV Bharati pg.164-202		7/2/22 8/2/22 9/2/22 12/2/22	~~9/2/22~~	

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MKSSS's Cummins College of Engineering for Women
Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	21-26 Mar	4	5	• Introduction of Advance materials, properties and applications:- composites, liquid Crystal polymers, conducting polymers, insulating materials, adhesives, biodegradable polymers	AC_AS_ppt_11			Energy and environment Dr.AV Bharati pg.212-242		16/3/22		
13	28-31 Mar	4	5	• Nanomaterials in energy- Photochemical devices like lithium ion batteries, Nanomaterials for Energy Storage, nanomaterials in solar cells.	AC_AS_ppt_12			Energy and environment Dr.AV Bharati pg.212-242		19/3/22		
12	1 Apr- 9 Apr	Sessional II										

Sub. Teacher

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Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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Lab Practicals Plan

CCOEW/ Department of Allied science 2021-22

Dr. Asha H. Gedam — Section: B

Department of Allied science

Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
print	print				print	fill	fill	fill
1	Determination of Flash Point of the given sample by Abels/ Pensky Martens close cup apparatus	BSE13TEE P01	change in oil samples.		01-11-2022	1/11/22	1	Ok
2	Determination of Neutralisation number (Acid value) of oil.	BSE13TEE P02	change in normality		18/1/22	18/1/22	1	Ok
3	Determination of Viscosity by Redwood Viscometer and specific gravity of Biodiesel at different temperatures.	BSE13TEE P03	change 9 1 & 2	Redwood	25/1/22	25/1/22	1	Ok
4	Determination of COD of water sample.	BSE13TEE P04	Natural water samples		02-08-2022	2/8/22	1	Ok
5	Proximate analysis of coal - Determination of % of Moisture and % of Volatile Matter in coal sample	BSE13TEE P05	Different coal Varieties		15/2/22	15/2/22	1	Ok
6	Proximate analysis of coal - Determination of % of ash in coal sample	BSE13TEE P06	Diff coal	variation	22/2/22	22/2/22	1	Ok

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CCOEW/AS / 21-22

Date: 1/ 1 / 2022

LESSON & TEACHING PLAN for Communication Skills

Department of Allied Science

Faculty Name: Prof. Rashmi Deshpande | Sub:Communication Skills | Sec: A,B | Year : 2021-22 | Sem:- I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	3Jan-7Jan	3	I A	Introduction to Communication, Importance of Communication	BESI7TCSW01L01	CS_ppt_01			Communication Skills by Dr. L.Bisen Chap1, self prepared notes		4/1		
				Process of Communication,	BESI7TCSW01L02	CS_ppt_02					6/1		
				Types of communication- Verbal and Non Verbal	BESI7TCSW01L03	CS_ppt_02					7/1		
2	10Jan-13Jan	3	I B	Oral and Written Communication	BESI7TCSW02L04	CS_ppt_04			Communication Skills by Dr. L.Bisen Chap1, self prepared notes		11/1		
				Barriers to Communication and methods to overcome them	BESI7TCSW02L05	CS_ppt_05					15/1		
				Barriers to Communication and methods to overcome them	BESI7TCSW02L06	CS_ppt_06							
3	17Jan-21Jan	3	IV A	asic Grammar: Tenses and its typ	BESI7TCSW02L07	CS_ppt_07			Communication Skills by Dr. L.Bisen Chap8, self prepared notes		21/1		
				asic Grammar: Tenses and its typ	BESI7TCSW02L08	CS_ppt_07							
4	24Jan-	3		asic Grammar: Tenses and its typ	BESI7TCSW02L09	CS_ppt_07							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
4	24Jan-29Jan	3		asic Grammar: Tenses and its typ	BESI7TCS W02L09	CS_ppt_07			self prepared notes				
				Types of Sentences Transformati	BESI7TCS W02L10	CS_ppt_8				29/1			
5	31Jan-5Feb	3	IV B	Assertive-Imperative-Interrogative-Exclamatory	BESI7TCS W02L11	CS_ppt_8			Communication Skills by Dr. L.Bisen Chap8, self prepared notes				
				Assertive-Imperative-Interrogative-Exclamatory	BESI7TCS W02L12	CS_ppt_8				5/2			
				Assertive-Imperative-Interrogative-Exclamatory	BESI7TCS W02L13	CS_ppt_8							
				Reported Speech	BESI7TCS W02L14	CS_ppt_9							
6	7Feb-11Feb	3		Reported Speech	BESI7TCS W02L14	CS_ppt_9				11/2			
				Reported Speech	BESI7TCS W02L15	CS_ppt_9							
	14Feb-19Feb			**Sessional Exam(14Feb-19Feb)**									
7	21Feb-25Feb	3	II A	Listening Skills	BESI7TCS W03L16	CS_ppt_10			Communication Skills by Dr. L.Bisen Chap2, self prepared notes				
				Importance of Listening	BESI7TCS W03L17	CS_ppt_10				21/2			
				Types of Listening	BESI7TCS W03L18	CS_ppt_10							
				Listening Barriers and methods to overcome them	BESI7TCS W03L19	CS_ppt_10				23/2			
8	28Feb-5Mar	3	II B	Effective Speaking Skills	BESI7TCS W03L20	CS_ppt_11			Communication Skills by Dr. L.Bisen Chap3,4, self prepared notes	2/3			
				Components of Public Speaking	BESI7TCS W03L21	CS_ppt_11							
				Components of Public Speaking	BESI7TCS W03L22	CS_ppt_11				5/3			
9	7Mar-11Mar			Overcoming stage fear in public speaking	BESI7TCS W03L23	CS_ppt_11				7/3			
				Group Discussion-Process and techniques	BESI7TCS W03L24	CS_ppt_12				7/3			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
				Group Discussion-Process and techniques	BESI7TCS W03L25	CS_ppt_ 12				7/3			
10	14Mar-19Mar	3	III A	Reading Skills, Importance of Reading	BESI7TCS W03L26	CS_ppt_ 13			Communication Skills by Dr. L.Bisen Chap4, self prepared notes	15/3			
				Sources of Reading, Skimming, Scanning,	BESI7TCS W03L27	CS_ppt_ 13				15/3			
				Sources of Reading, Skimming, Scanning,	BESI7TCS W03L28	CS_ppt_ 13				16/3			
11	21Mar-25Mar	3	II B	Comprehending passage	BESI7TCS W03L29	CS_ppt_ 14			Communication Skills by Dr. L.Bisen Chap7, self prepared notes	16/3			
				Comprehending passage	BESI7TCS W03L30	CS_ppt_ 14							
				Comprehending passage	BESI7TCS W03L31	CS_ppt_ 14							
12	28Mar-31Mar	3	III B	Process and Techniques of Composition	BESI7TCS W03L32	CS_ppt_ 15				19/3			
				-Précis, Paragraph, Essay	BESI7TCS W03L33	CS_ppt_ 15							
				-Précis, Paragraph, Essay	BESI7TCS W03L34	CS_ppt_ 15							

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

R. Deshpande					Communication Skills				Department: AS		Section: A
					Batch A 1			Batch A 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
1	Barrires to Communication	BESI7PCS7/1/22P01			7/1/2022	7/1		7/1/2022	7/1		
2	~~Non Verbal~~ Listening Communication Skills	BESI7PCS21/1/22P02		Verify Vlabs ac. in Listening Skills	21/1/22	21/1		21/1/22	21/1		
3	Speaking Skills	BESI7PCS24/1/22P03			28/1/22	28/1		28/1/22	28/1		
4	Group Discussion	BESI7PCSCS4/2/22P04			4/2/2022	4/2		4/2/2022	4/2		
5	Interview Techniques	BSE1CS4/3/22P05			4/3/2022	3/3		4/3/2022	3/3		
6	Reading Skills	BESI7PCSCS18/3/22P06			18/3/2022	Not taken, course prepared		18/3/2022	Not taken, course prepared,		
7	Presentation Skills	BESI7PCS1CS25/3/22P07			25/3/22	10/3		25/3/22	15/3		

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

R. Deshpande | Communication Skills | Department: AS | Section:B

					Batch B 1			Batch B 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
1	Barrires to Communication	BESI7PCSCS10/1/22P01			10/1/2022	10/1		10/1/2022	10/1		
2	~~Non Verbal~~ Listening skills Communication	BESI7PCSCS17/1/22P02	Paragraph 1 Paragraph 2 Paragraph 3	Ve-iitg.vlabs.ac.in/listeningskills	17/1/22	17/1		17/1/22	17/1		
3	Speaking Skills	BESI7PCSCS24/1/22P03			24/1/22	24/1		24/1/22	24/1		
4	Group Discussion	BESI7PCSCS7/2/22P04			7/2/2022	23/2		7/2/2022	21/2		
5	Interview Techniques	BESI7PCSCS28/2/22P05			28/2/22	2/3		28/2/22	28/2		
6	Reading Skills	BESI7PCSCS7/3/22P06			7/3/2022	[redacted]		7/3/2022	[redacted]	Not taken bcoz course was prepone	
7	Presentation Skills	BESI7PCSCS28/3/22P07			28/3/22	15/3		28/3/22	16/3		

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Academic year

2020-21

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CCOEW/AS / 20-21

Date: 18/04/2022

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

Faculty Name: Prof. Pravin Gorantiwar | Sub: Applied Maths II | Allied Science | Year : 2021-22 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
1	18 April - 23 April	5	V	Unit 5: Finite Differences: operator E & Delta Factorial polynomial Lagrange's interpolation formula for unequal intervals of arguments	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		21-04-22		
2	25 April - 30 April	5	V	Numerical Integration: Trapezoidal rule Simpson's 1/3rd rule Simpson's 3/8th rule Difference equation with constant coefficient	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		28-04-22	28-04-22	
3	02 May 7 May	5	IV	Unit4: Statistics: Fitting of a curve by method of least square: Straight line y = a+bx, Second degree parabola y = a + bx + cx2 curves of the type y = aebx , y = abx and y = axb	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856				
4	9 May - 14 May	5	IV	Rank correlation Coefficient of correlation and Lines of regression,	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856		12-05-22		
			I	Unit 4: Vector Calculus: Vector triple product, Product of four vectors, Scalar point function,Vector point function,	PDF Integral calculus-I				18-05-22		
5	15 May - 21 May	5	I	Vector differentiation, Gradient, Divergence and Curl, Directional derivatives,	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 302- 314				
6	23 May - 28 May	5	I	Solenoidal and Irrotational motions, Vector Integration: Line integrals and Work done	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		23-05-		
	30 May - 04 June			Sessional- I Examination					25-05	25-5-22	

Faculty in Charge

HOD / AC

Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
8	06 June - 11 June	5	I	Unit 1: Integral Calculus-I: Evaluation of definite and improper Integrals: Gamma functions	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337				
				Beta functionand their properties.					27-05-22		
9	13 June - 18 June	4	III	Differentiation of definite integral,	PDF Vector calculus		Higher engineering mathematics B. S. Grewal				
				Mean value, Mean square value and Root mean square value,					13-06-22		
10	20June - 25 June	5	III	Tracing of curves (Cartesian), Applications of definite integrals to find length of curve	PDF Vector calculus		Higher engineering mathematics B. S. Grewal				
				area, volume							
				surface area of solids of revolution (Cartesian, Polar and Parametric curves)					16-06-22	16-06-22	
11	27 June - 02 July	5	II	Unit 2: Multivariable Calculus (Integration): Multiple Integration: Double integrals (Cartesian and Polar),	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219				
				Change of order of integration in double integrals,					23-06-22		
12	04 July - 09 July	5	II	Change of variables (Cartesian to Polar)	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219				
				Elementary triple integrals.							
12	11 July - 18 July	5	II	Applications: Area, Mass, Volume							
				Center of Gravity (constant and variable densities)					04-07-22		
12		5		Sessional- II Examination							

Sub. Teacher

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COEW/AS / 20-21

Date: 18/04/2022

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

Faculty Name: Prof. ~~Pravin Gosantiwar~~ Sneha Uttarwar | Sub: Applied Maths II | Allied Science | Year: 2020-22 | Sem:- II

EEK o.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
1	18 April - 23 April	5	V	Unit 5: Finite Differences perator E & Delta	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999	18/04	18/04		
				Factorial polynomial							
				Lagrange's interpolation formula for unequal intervals of arguments				23/04	23/04		
2	25 April - 30 April	5	V	Numerical Integration: Trapezoidal rule	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999	~~25~~/04	25/04		
				Simpson's 1/3rd rule				~~26~~/04	~~26~~/04		
				Simpson's 3/8th rule				29/04	~~29~~/04	Tutorial-I	
				Difference equation with constant coefficient							
3	02 May 7 May	5	IV	Unit4: Statistics: Fitting of a curve by method of least square: Straight line y = a+bx,	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856	~~02~~/04	02/04		
				Second degree parabola y = a + bx + cx2					04/04		
				curves of the type y = aebx , y = abx and y = axb							
4	9 May - 14 May	5	IV	Rank correlation	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856	~~10~~	10/05		
				Coefficient of correlation and Lines of regression,							
			I	Module 1: Integral Calculus-I: Evaluation of definite and improper Integrals: Gamma functions	PDF Integral calculus-I				14/05		
5	15 May - 21 May	5	I	Beta functionand their properties.	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 302- 314		15/05		
				Differentiation of definite integral,					17/05		
				Mean value, Mean square value and Root mean square value,					21/05		
	23 May -			Tracing of curves (Cartesian),	PDF Integral				23/05		

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EK o.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
6	28 May	5	I	Applications of definite integrals to find length of curve, and	calculus-I		mathematics B. S. Grewal 315- 337		Tutorial III		
7	30 May - 04 June	5	I	area, volume surface area of solids of revolution (Cartesian, Polar and Parametric curves)	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		26/05 2/06		
8	06 June - 11 June	4	III	Module 4: Vector Calculus: Vector triple product, Product of four vectors, Scalar point function,Vector point function, Vector differentiation, Gradient, Divergence and Curl,	PDF Vector calculus		Higher engineering mathematics B. S. Grewal		30/05 04/06		
9	13 June - 18 June	5	III	Directional derivatives, Solenoidal and Irrotational motions, Vector Integration: Line integrals and Work done	PDF Vector calculus		Higher engineering mathematics B. S. Grewal		09/06 13/06		
10	20June - 25 June	5	II	Module 3: Multivariable Calculus (Integration): Multiple Integration: Double integrals (Cartesian and Polar), Change of order of integration in double integrals,	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219		17/06 22/06		
11	27 June - 02 July	5	II	Change of variables (Cartesian to Polar) Elementary triple integrals.	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219		27/06 30/06		
12	04 July - 09 July	5	II	Applications: Area, Mass, Volume Center of Gravity (constant and variable densities)					03/07 5/07		
13	11 July - 18 July	5		Sessional Examination							

Sub. Teacher

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CCOEW/AS / 20-21

Date: 18/04/2022

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

Faculty Name: Prof. Pravin Gorantiwar | Sub: Applied Maths II | Allied Science | Year : 2021-22 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
1	18 April - 23 April	5	V	Unit 5: Finite Differences: operator E & Delta Factorial polynomial Lagrange's interpolation formula for unequal intervals of arguments	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		21-04-22		
2	25 April - 30 April	5	V	Numerical Integration: Trapezoidal rule Simpson's 1/3rd rule Simpson's 3/8th rule Difference equation with constant coefficient	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999		28-04-22	28-04-22	
3	02 May 7 May	5	IV	Unit4: Statistics: Fitting of a curve by method of least square: Straight line y = a+bx, Second degree parabola y = a + bx + cx2 curves of the type y = aebx , y = abx and y = axb	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856				
4	9 May - 14 May	5	IV	Rank correlation Coefficient of correlation and Lines of regression,	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856		12-05-22		
			I	Unit 4: Vector Calculus: Vector triple product, Product of four vectors, Scalar point function,Vector point function,	PDF Integral calculus-I				18-05-22		
5	15 May - 21 May	5	I	Vector differentiation, Gradient, Divergence and Curl, Directional derivatives,	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 302- 314				
6	23 May - 28 May	5	I	Solenoidal and Irrotational motions, Vector Integration: Line integrals and Work done	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		23-05-		
	30 May - 04 June			Sessional- I Examination					25-05	25-5-22	

Faculty in Charge

HOD / AC

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
8	06 June - 11 June	5	I	Unit 1: Integral Calculus-I: Evaluation of definite and improper Integrals: Gamma functions	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337				
				Beta functionand their properties.					27-05-22		
9	13 June - 18 June	4	III	Differentiation of definite integral,	PDF Vector calculus		Higher engineering mathematics B. S. Grewal				
				Mean value, Mean square value and Root mean square value,					13-06-22		
10	20June - 25 June	5	III	Tracing of curves (Cartesian), Applications of definite integrals to find length of curve	PDF Vector calculus		Higher engineering mathematics B. S. Grewal				
				area, volume							
				surface area of solids of revolution (Cartesian, Polar and Parametric curves)					16-06-22	16-06-22	
11	27 June - 02 July	5	II	Unit 2: Multivariable Calculus (Integration): Multiple Integration: Double integrals (Cartesian and Polar),	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219				
				Change of order of integration in double integrals,					23-06-22		
12	04 July - 09 July	5	II	Change of variables (Cartesian to Polar)	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219				
				Elementary triple integrals.							
12	11 July - 18 July	5	II	Applications: Area, Mass, Volume							
				Center of Gravity (constant and variable densities)					04-07-22		
12		5		Sessional- II Examination							

Sub. Teacher

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Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

Dr. Milind Khanapurkar
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Hingna, Nagpur-441110.

COEW/AS / 20-21

Date: 18/04/2022

LESSON & TEACHING PLAN for Applied Maths-II

Department of Allied Science

Faculty Name: Prof. ~~Pravin Gosantiwar~~ Sneha Uttarwar | Sub: Applied Maths II | Allied Science | Year: 2020-22 | Sem:- II

EEK o.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
1	18 April - 23 April	5	V	Unit 5: Finite Differences perator E & Delta	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999	18/04	18/04		
				Factorial polynomial							
				Lagrange's interpolation formula for unequal intervals of arguments				23/04	23/04		
2	25 April - 30 April	5	V	Numerical Integration: Trapezoidal rule	PDF Finite Difference		Higher engineering mathematics B. S. Grewal 946- 999	~~25~~/04	25/04		
				Simpson's 1/3rd rule				~~26~~/04	~~26~~/04		
				Simpson's 3/8th rule				29/04	~~29~~/04	Tutorial-I	
				Difference equation with constant coefficient							
3	02 May 7 May	5	IV	Unit4: Statistics: Fitting of a curve by method of least square: Straight line y = a+bx,	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856	~~02~~/04	02/04		
				Second degree parabola y = a + bx + cx2					04/04		
				curves of the type y = aebx , y = abx and y = axb							
4	9 May - 14 May	5	IV	Rank correlation	PDF Statistics		Higher engineering mathematics B. S. Grewal 845- 856	~~10~~	10/05		
				Coefficient of correlation and Lines of regression,							
			I	Module 1: Integral Calculus-I: Evaluation of definite and improper Integrals: Gamma functions	PDF Integral calculus-I				14/05		
5	15 May - 21 May	5	I	Beta functionand their properties.	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 302- 314		15/05		
				Differentiation of definite integral,					17/05		
				Mean value, Mean square value and Root mean square value,					21/05		
	23 May -			Tracing of curves (Cartesian),	PDF Integral				23/05		

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EK o.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment / Tutorial Date	AC's sign
6	28 May	5	I	Applications of definite integrals to find length of curve, and	calculus-I		mathematics B. S. Grewal 315- 337		Tutorial III		
7	30 May - 04 June	5	I	area, volume surface area of solids of revolution (Cartesian, Polar and Parametric curves)	PDF Integral calculus-I		Higher engineering mathematics B. S. Grewal 315- 337		26/05 2/06		
8	06 June - 11 June	4	III	Module 4: Vector Calculus: Vector triple product, Product of four vectors, Scalar point function,Vector point function, Vector differentiation, Gradient, Divergence and Curl,	PDF Vector calculus		Higher engineering mathematics B. S. Grewal		30/05 04/06		
9	13 June - 18 June	5	III	Directional derivatives, Solenoidal and Irrotational motions, Vector Integration: Line integrals and Work done	PDF Vector calculus		Higher engineering mathematics B. S. Grewal		09/06 13/06		
10	20June - 25 June	5	II	Module 3: Multivariable Calculus (Integration): Multiple Integration: Double integrals (Cartesian and Polar), Change of order of integration in double integrals,	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219		17/06 22/06		
11	27 June - 02 July	5	II	Change of variables (Cartesian to Polar) Elementary triple integrals.	PDF Multivariable Calculus		Higher engineering mathematics B. S. Grewal 274- 219		27/06 30/06		
12	04 July - 09 July	5	II	Applications: Area, Mass, Volume Center of Gravity (constant and variable densities)					03/07 5/07		
13	11 July - 18 July	5		Sessional Examination							

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CCOEW/AS / 21-22

Date: 1/ 2 / 2021

LESSON & TEACHING PLAN for Advanced engineering Materials

Department of Allied Science

Faculty Name:Dr Sanjivani shastri						Sub:Applied Physics		Sec: A,B	Year :
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date
1	18 April to 23 April	3	I	Basic idea of free electron theory of metals, expression of conductivity of a metal. Formation of energy bands in Solids, Fermi energy and Fermi level.	Semi _ppt_01		A textbook of Engineering Physics by Avdhanulu (Edition 2009)Page number (506 to 563,Advvanced Engineering Materials by Dr S shastri (1 to 82)		18-4-22 20-4-22
				Classification of solids on the basis of energy band diagram: Conductors, Semiconductors and Insulators, concept of Fermi energy.	Semi _ppt_02				
				Numericals	Semi _ppt_03				27-4-22 Assignment 28-4-22 Tutorial 1.
2	25 April to 30 April			Types of Semiconductor diodes, P-N junction Diode: Characteristics of P-N junction Diode,	Semi _ppt_04				

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No.		Lect.	No.	Exact Topic Name & Subtopic	PPt ID	Virtual lab link Teaching Aid	Chapter no. Page no,edition. No	link for quiz or poll Assignment / Tutorial	Completion Date
		4	II	Tunnel Diode, Zener Diode, LED, Photodiode.Transistors . Hall effect, Hall voltage and Hall coefficient; its applications,	Semi _ppt_05				28/4/22 GVS
				Numericals	Semi _ppt_06				2/5/22 GVS
3	2 May to 7 May	4	4	Quantum Transitions: Absorption, Spontaneous emission & stimulated Emission,	Laser _ppt_01		A textbook of Engineering Physics by Avdhanulu (Edition 2009)Page number395-421, Advanced Engineering Materials by Dr S shastri (138 to 166)	22/4/22 Asig 1 Tutorial 1	2[illegible]
				, Metastable states, Principle of laser, Laser characteristics, Coherence length and coherence time,	Laser _ppt_02			Tutorial 2 Asig 2 13/5/22	[illegible] 16/5/22 GVS
4	9 May to 14 May	3	IV	Pumping schemes: Three level and Four level.	Laser _ppt_03				20/5/22
				Optical Resonator,	Laser _ppt_04				20/5/22
				Ruby laser and He-Ne laser,	Laser _ppt_05				23/5/22

Faculty in Charge GVS

HOD GVS

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Lab Practicals Plan

CCOEW/ Department of Allied Science 2021-22

Dr.S.Shastri			Advanced engineering Materials			Department: AS		
			BatchC 1			Batch C 2		
Pi	Name of experiment	Possible variations used	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions
print	print		print	fill	fill	print	fill	fill
1	V-I characteristics of Semiconductor diodes		21-04-2022	21/4/22		22-04-2022	22/4/22	
2	Input, output and current transfer characteristics ofNPN transistor in CE mode		28-04-2022	28/4/22		29-04-2022	29/4/22	
3	V-I characteristics of Zener diodes.	Diodes with different Zener voltage	05-05-2022	5/5/22		06-05-2022	6/5/22	
4	Input, output and current transfer characteristics of NPN transistor in CB		12-05-2022	12/5/22		13-05-2022	13/5/22	
5	Study of Diode as a rectifier		19-05-2022	19/5/22		20-05-2022	20/5/22	
6	Study of LED	use of Diodes with different colors (cut-in vol.)	09-06-2022	26/5/22		10-06-2022	27/5/22	
7	Determination of band gap Energy of Semiconductor		23-06-2022	—	—	24-06-2022	—	

GVS GVS GVS GVS GVS GVS GVS GVS

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CCOEW/AS / 21-22

Date: 18/ 4 / 2022

LESSON & TEACHING PLAN for Advanced Engineering Materials

Department of Allied Science

Faculty Name:Dr Shubhangi Bompilwar | Sub:Advanced Engineering Materia | Sec: C | Year : 2021-22 | Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	18-23 April 22	2	I	*Band Theory of Solids* : Basic idea of free electron theory of metals,	PPt	BB	A testbook of Engineering physics (page number 506-526)10th Edition ,Atextbook of Applied physics(1.1 to 1.39) first edition		20/4/22		
				Expression of conductivity of a metal. Drift velocity, mean free path					21/4		
2	25-30 April 22	4		Formation of energy bands in SolidsClassification of solids on the basis of energy band diagram:					22/4/22 to	26/4/22	
				Conductors, Semiconductors and Insulators,					27/4/22		
				concept of Fermi energy.Fermi energy and Fermi level.Concept of effective mass,							
				Numericals		BB					
3	2-7 May 22	4	II	***Semiconductor Devices:*** Basics of Semiconductor, conduction process		PPT	A testbook of Engineering physics,M N		28/4		
				characteristics of P-N junction Diode: ,,Tunnel Diode, Zener Diode,		BB			29/4		
				, LED, Photodiode.					2/5		
				Transistors					5/5/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	9-14 May 22	3		Hall effect, Hall voltage and Hall coefficient:			Avadhanulu (page number 527- 607)		9-11 may 22	AS-2 11 may 22	
				applications of Hall Effect		BB					
				Numericals							
				Numericals							
5	16-21 May 22	4	III	*Magnetic and Superconducting Materials: I* ntroduction to magnetic materials, magnetic field,			A testbook of Engineering physics,M N Avadhanulu (page number 608- 664)		16/6/22 to 15/6/22		
				magnetic dipole moment, magnetic induction,magnetization, magnetic susceptibility, magnetic permeability,		PPT projector					
				Diamagnetic, Paramagnetic, Ferromagnetic, Ferri-magnetic and anti ferromagnetic materials:							
6	23-26 May 22	2		Properties of mag. Materials					16/6 to 18/6/22		
				Hysteresis curve, Applications of magnetic materials							
7	27 May -4 June 22	Sessional I									
8	6-11 June	4	III	***Superconductors:*** Basics of superconductivity: Zero electrical resistance		BB & chalk	A testbook of Engineering physics,M N Avadhanulu (page		20/6 to 21/6		
				Persistent current Effect ofTemperature, Effect of Magnetic Field, Critical Current;							
				The Meissner Effect.Type-I and type-II superconductors, London Equation:		projector + PPT					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				The penetration depth, Bardeen-Cooper-Schrieffer (BCS) theory.			Avadhanulu (page number 608- 664)		22/6 to 23/6/22		
				Numericals		BB & chalk					
				Numericals							
9	13-18 June	4	IV	*Lasers:* Quantum Transitions: Absorption, Spontaneous emission & stimulated Emission,					12-17 may 22	AS-3 13/6/22	
				Coherence length and coherence time,Metastable states, Principle of laser		BB & chalk					
				Pumping schemes: Three level and Four level. Optical cavity			A testbook of Engineering physics,M N Avadhanulu (page number 395- 421)				
				Characteristics and applications of lasers					18-21 may 22	https://docs.google.com/forms/d/1w9pB_807SN9MLk08VR84GaH2m3	
10	20-26 June 22	4		Construction & working of Ruby laser and He-Ne laser,		PPT projector					
				Numericals					7-8 June 22		
11	27-30 June 22	3	IV	Numericals		BB					
				Test/Revision							
				Test/Revision		G-forms			24/6/22		
				Nanoscience and Nanomaterials			A testbook of Engineering physics (page number 608		27/6/22		
				Introduction to Nanoscience, Classification of nano materials,							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	4-9 July 22	4	V	with bulk materials, Some special nanomaterials		projector	Number 698-725)10th Edition ,Atextbook of Applied physics(5.1 to 5.31) first edition		28/6/22		
				Zeolites, 2) Graphine, Application of nanomaterials in engineering					29/6/22		

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Academic year

2019-20

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CCOEW/AS/ 19-20

Date: / / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin Gorantiwar | Subject: Applied Maths II | SEM II Allied Science (2018-19) | Sem:- EVEN

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	23 Dec-28 Dec	6	VI(B)	FINITE DIFFERENCES Forward difference operator (Δ), Shifting operator E, Factorial Notation	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.534 to 544	PPT/video to solve example and algorithms of method	26.12.19		
2	30 Dec-04 Jan	5	VI(B)	Lagranges interpolation formula for unequal intervals Difference Equation: Soloution of difference equation with constant coefficient	Solving example	Text Book By D.T. Deshmukh Pg no.567 to 573 & 600 to 624	PPT/video to solve example and algorithms of method	30.12.19		
3	06 Jan-11 Jan	5	VI(A)	STATISTICS :CURVE FITTING Fitting of curve ; straight line a+bx, Fitting of curve parabola, A fitting of expoential curve by method of least square method	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.876 to 891	PPT/video to solve example and algorithms of method	06.01.20	T 10.01.20	
4	13 Jan-18 Jan	5	VI(A)	Coefficient of correlation, Line of regressions, properties of correlation coefficient,Correlation by rank	Solving example	Text Book By D.T. Deshmukh Pg no.891 to 912	PPT/video to solve example and algorithms of method	10.01.20		
5	20 Jan-25 Jan	Anannya Cultural Festival								
6	27 Jan-01 Feb	5	I	INTEGRAL CALCULUS - I Gamma function, Beta function	Solving example	Text Book By D.T. Deshmukh Pg no.165 to 185	PPT/video to solve example of inverse	16.01.20	A 30.01.20	

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		No. Of Lect.	Unit No.	Topic No.	Teaching Aid	Refrence Book - Chap. no,edition. No	Activity	Completion Date	Assignment/Tutorial Date	HOD's sign
7	03 Feb-08 Feb	6	I	Differentation of definite integral by leibneit'z rule, The mean value,The root mean value, The root mean square value	Solving example	Text Book By D.T. Deshmukh Pg no.187 to 194	PPT/video to solve example of convolution theorem	29.01.20	T 31-01-20	
8	10 Feb-15 Feb	SESSIONAL-I								
9	17 Feb-22 Feb	6	IV	VECTOR DIFFERENTIAL CALCULUS Vector tripple product,Scaler product of four vector and vector product of four vector,Vector differentation,Gradient of vector,Divergence of vector point function & Curl,Directional derivative of function with their physical interpretation	Solving example	Text Book By D.T. Deshmukh Pg no.194 to 248	PPT	07.02.20		
10	24 Feb-29 Feb	5	IV	Solenodial vector, Irrotational motion INTEGRAL CALCULUS - II Tracing of curve (cartesian & Polar),Rectification of simple curve,Quadrature , volume,Surface of solid revoluation (cartesian,Polar and parametric form)	Solving example	Text Book By D.T. Deshmukh Pg no.497 to 531	PPT/video for solved example of probability function			
11	02 Mar-07 Mar	6	IV	VECTOR INTEGRAL CALCULUS line integral, Surface integral ,volume integral,Stroke's theorem,Gauss divergence theorem,Green's theorem,Application	Solving example	Text Book By D.T. Deshmukh Pg no.501 to 554	PPT/video for solved example of mathematical exceptation			
12	09 Mar-14 Mar	5	V	MULTIPLE INTEGRAL AND THEIR APPLICATION Elementary double integrals, Change of variable (simple trasformation),Change of order of integration (cartesian and polar)	Solving example	Text Book By D.T. Deshmukh Pg no.343 to 370	PPT			

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13	16 Mar-21 Mar	6	III	method to change given integration into polar form,Application of integration to find mass area volume and Centre of gravity of plane lamina, Elementary tripple integration	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.371 to 425	PPT			
14	23 Mar-03 Apr			REVISION						
15	4 Apr-9 Apr			Sessional II						

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CCOEW/AS/ 19-20

Date: / / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sneha Uttarwar | Subject: Applied Maths II | SEM II Allied Science (2018-19) | Sem:- EVEN

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	23 Dec-28 Dec	6	VI(B)	FINITE DIFFERENCES Forward difference operator (Δ), Shifting operator E, Factorial Notation	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.534 to 544	PPT/video to solve example and algorithms of method	24/12/19		
2	30 Dec-04 Jan	5	VI(B)	Lagranges interpolation formula for unequal intervals Difference Equation: Soloution of difference equation with constant coefficient	Solving example	Text Book By D.T. Deshmukh Pg no.567 to 573 & 600 to 624	PPT/video to solve example and algorithms of method	31/12/19		
3	06 Jan-11 Jan	5	VI(A)	STATISTICS :CURVE FITTING Fitting of curve ; straight line a+bx, Fitting of curve parabola, A fitting of expoential curve by method of least square method	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.876 to 891	PPT/video to solve example and algorithms of method	Tutorial -I 6/01/20		
4	13 Jan-18 Jan	5	VI(A)	Coefficient of correlation, Line of regressions, properties of correlation coefficient,Correlation by rank	Solving example	Text Book By D.T. Deshmukh Pg no.891 to 912	PPT/video to solve example and algorithms of method	14/01/20		
5	20 Jan-25 Jan	Anannya Cultural Festival								
6	27 Jan-01 Feb	5	I	INTEGRAL CALCULUS - I Gamma function, Beta function	Solving example	Text Book By D.T. Deshmukh Pg no.165 to 185	PPT/video to solve example of inverse	Tutorial -II 28/01/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	03 Feb-08 Feb	6	I	Differentation of definite integral by leibneit'z rule, The mean value,The root mean value, The root mean square value	Solving example	Text Book By D.T. Deshmukh Pg no.187 to 194	PPT/video to solve example of convolution theorem	Tutorial - III 31/01/20		
8	10 Feb-15 Feb	SESSIONAL-I								
9	17 Feb-22 Feb	6	II	VECTOR DIFFERENTIAL CALCULUS Vector tripple product,Scaler product of four vector and vector product of four vector,Vector differentation,Gradient of vector,Divergence of vector point function & Curl,Directional derivative of function with their physical interpretation	Solving example	Text Book By D.T. Deshmukh Pg no.194 to 248	PPT	20/02/20 Tutorial IV		
10	24 Feb-29 Feb	5	IV	Solenodial vector, Irrotational motion INTEGRAL CALCULUS - II Tracing of curve (cartesian & Polar),Rectification of simple curve,Quadrature , volume,Surface of solid revoluation (cartesian,Polar and parametric form)	Solving example	Text Book By D.T. Deshmukh Pg no.497 to 531	PPT/video for solved example of probability function	29/02/20		
11	02 Mar-07 Mar	6	IV	VECTOR INTEGRAL CALCULUS line integral, Surface integral ,volume integral,Stroke's theorem,Gauss divergence theorem,Green's theorem,Application	Solving example	Text Book By D.T. Deshmukh Pg no.501 to 554	PPT/video for solved example of mathematical exceptation	Tutorial V 03/03/20		
12	09 Mar-14 Mar	5	V	MULTIPLE INTEGRAL AND THEIR APPLICATION Elementary double integrals, Change of variable (simple trasformation),Change of order of integration (cartesian and polar)	Solving example	Text Book By D.T. Deshmukh Pg no.343 to 370	PPT	19/03/20 ~~13/03~~ 20 10 Tutorial - V		

Faculty in Charge HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	16 Mar-21 Mar	6	III	method to change given integration into polar form,Application of integration to find mass area volume and Centre of gravity of plane lamina, Elementary tripple integration	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.371 to 425	PPT			
14	23 Mar-03 Apr			REVISION						
15	4 Apr-9 Apr			Sessional II						

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CCOEW/AS / 19-20

Date: 23 /12 / 2019

LESSON & TEACHING PLAN for Advanced Physics

Department of Allied Science

Faculty Name: Prof Dr Sanjivani shastri | Year : 2019-20 | SEM II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	23 -28 Dec 19	3	I	Interference in thin films, Interference in Wedge shape thin film,	Read aloud,Co relating daily life examples	Textbook of Optics by Avadhanulu(323-325)A Text book of EP by Avadhanulu(142-154:395-421)Edition No 14,Problems in Physics by Avadhanulu(192-223) 4th edition	ppt	23/12/19 24/12/19 26/12/19		
2	30Dec -4 Jan 20	2	I	Newton"s rings, Anti-reflection coating and applications			ppt	27/12/19 31/12/19		
3	6-11 Jan 20	4	I	Numericals				4/1/20 7/1/20 8/1/20 9/1/20	Assign1 Tutorial 1	
4	13-18 Jan 20	3	I	Spatial and temporal coherence of a light wave, Quantum Transitions: Absorption, Spontaneous emission & stimulated Emission,Metastable states, Pumping schemes, Principle of laser,		Textbook of Optics by Avadhanulu(323-325)A Text book of EP by Avadhanulu(142-154:395-421)	ppt	9/1/20 14-1-20 16-1-20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
6	20-25 Jan20	Annany Weeek								
5	27-1 Feb20	3	I	Numericlas		Problems in Physics by Avadhanulu(192-223) 4th edition	27/1/20 28/1/20 30/1/20 1/2/20			
7	3-8 Feb 20	3	II	Motion of charged particles in uniform ele& mag field Motion of electron in parallel & per fields,acute angle condition,		EP By Avadhnulu(43-69) Numericals in Physics by Avadhanulu(40-117) 4th edition	4-2-20 6-2-20 7-2-20			
9	10-14 Feb 20	Sessional I								
8	17-22 Feb 20	3	II	Effect of mag & electric field on KE of charged particlesVelocity filter,cross field connetion and numericals		EP By Avadhnulu(43-69) Numericals in Physics by Avadhanulu(40-117) 4th edition	4-20-20			
10	24 Feb -29 Feb 20	4	III	Bethe"s law, Electric and Magnetic focusing,		EP by Avadhnulu(333-359)14 th edition	7-20-20			
11	2-7 Mar20	3	III	Construction & working of Electrostatic lens,CRT, CRO, Block Diagram,Function & working of each block,			15-2-20 ppt 18-2-20 20-2-20	Assign 2 Tutorial 2		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
12	9-14 Mar 20	3	III	Modes of propagation in fiber, Acceptance angle,Numerical aperture, Attenuation and dispersion		EP By Avadhanulu(329-379),Problems in Physics by Avdhanulu,14th edition	ppt	26/2/20 27/2/20 28/2/20	Asign 3 Tutorial 3	
13	16-21 Mar 20	3	III	Light sources and Detectors,As a Sensors - i) Temperature Sensor ii) Pollution / Smoke detector iii) Liquid,Numericals				3/3/20 4/3/20 5/3/20 6/3/20		
14	30-31 Mar 20	1		Introduction to nanoscience and nanotechnology, Classification of nano materials,Synthesis of nano materials nanomaterials,1) Zeolites,2)Graphine Application of nanomaterials in engineering, Impact of Nanoscience and nanotechnology .		Intro to Nano by Poole(1,154)&Nano the essentials by Pradeep(3-9)edition no 1	ppt	7/3/20 12/3/20 13/3/20 14/3/20		
15	4-8 April 20			**Sessional II**						

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LESSON & TEACHING PLAN

Faculty Name: Dr. Shubhangi Bompilwar					SEC :A	Sub: Advanced Physics		First Year (2019-20)		Sem:- II
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no, Page no	ICT tools	Completion Date	Assignment /Tutorial	HOT's Sign
1	23-31Dec	4	I	Advanced Physics syllabus discussion	Downloading syllabus from RTMNU website	Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar pp.143-160		23/12/19		
				Thin Film interference , wedge shaped thin film				27/12		
				Newtons Rings experiment and its various parameters	live demonstration in lab			30/12		
				Applications; antireflection coating, flatness of surface				31/12		
2	1to 4 Jan 2020	1		Numericals		Problems in Physics M N Avadhanulu, 192-223		4/1/2020		
3	6 to 10 Jan-2020	3		Introduction of Laser, Interaction of radiation with matter		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar,pp. 395-410	Projector	7/1/20	Assig.	
				Spatial & Temporal coherence,Principle and Characteristics of LASER				7/1/20	15/1/20	
				Population inversion, metastable state,Pumping Schemes,Three & four level Lasers				7/1/20		
4	13-17 Jan	2		Working of He-Ne Laser ,Ruby LASER				14/1/20		
				Semiconductor Laser and Applications				15/1/20		
	17-24 jan			**Ananya**						
5	27-31 Jan	4		Numericals		Problems in Physics M N Avadhanulu, 325-344		25/1/20		
				Numericals				4/1/20		
			II	Unit II: Electron Ballistic Motion of charged particles in uniform electric field		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 43-58		27/1/20		
				particle in electric field at varioue angles				28/1/20		

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6	3-7 Feb	3		magnetic fields: parallel, perpendicular and at an acute angle Electrostatic and magnetostatic deflection. Crossed electric and magnetic field configurations Velocity filter.	Lab activity -CRT			1/2/20 3/2/20 3/2/20	
7	**10-15 Feb**				**Sessional I**				
8	17-21 Feb	1		Energy of charged particles in electric and magnetic field				3/2/20	2nd Assi.
9	24-29 Feb	3		Numericals Numericals		Problems in Physics M N Avadhanulu, 40-117		4/2/20	20/2/20
10	2-7 March	2	III	Bethe"s law.Construction & working of Electrostatic lens, magnetostatic lens CRT, Block Diagram, Function & working of each block. CRO,Block Diagram, Function & working of each block.	LAB activity CRO	Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 70-100		18/2/20 18/2/20 24/2/20	
11	9-14 March	4		Applications of CRO Bainbridge mass spectrograph, Cyclotron. Numericals Numericals		Numericals: M N Avadhanulu, 125-154		25/2/20 26/2/20 2/3/20 2/3/20	
12	~~16-21March~~ 16/3/20 to 24/3/20	3	IV	**Optical fibers:** Propagation by total internal reflection, Acceptance angle, Numerical aperture, , Modes of propagation in fiber, Attenuation and dispersion.		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 698-725		3/3/20 3/3/20 4/3/20	3rd Assi. 9/3/20
13	~~23-28 March~~	4		Light sources and Detectors. Applications:various sensors Numericals Introduction to **nanoscience and nanotechnology**, Classification of nano materials		Introduction to Nanotechnology:Pooly & Owens; Willey Publication, Nanoscience by T Pradip		7/3/20 9/3/20 13,14/3/20	
14	30-31March	2		Synthesis of Nanomaterials, . e.g; PVP,CVP sol-gel etc. Zeolites, 2) Graphine,					
				Sessional II					

Sub. Teacher

HoT

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Lab Practicals Plan Sem. II

Date: 24 / 12 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. S Bompilwar | Subject: Advanced Physics | for | Department: Allied science | Section: A

			Batch: A1			Batch: A2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoT's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	To determine the wavelength of Laser source by plane diffraction gratting.		9/1/2020	9/1/20	✓	27/12/2020	27/12	✓	
2	Determination of radius of curvature of Plano-convex lens by Newton's Ring Expt.	Distance variation	28/12/2020	26/12	✓	10/1/2020	10/1/20	✓	
3	Determination of refractive index of prism		6/2/2020	12/2/20	✓	7/2/2020	13/2/20	✓	
4	Determination of specific cgarge (e/m) of an electron by Thomson's method		5/3/2020	6/2/20	✓	6/3/2020	28/2/20	✓	
5	Determination of wavelength of sodium light by plane diffraction gratting		27/2/2020	30/1/20	✓	28/2/2020	31/1/20	✓	
6	Study of Cathode Ray Oscilloscope (CRO) and measurement of AC and DC voltages	Different values of input voltage	12/3/2020	27/2/20	✓	13/3/2020	6/3/20	✓	
7	Determination of phase difference and Frequency of electrical signals using CRO	Different values of resisrors and capacirors	19/3/2020	5/3/20	✓	20/3/2020	13/3/20	✓	

Sub. Teacher

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CCOEW/CE / 19-20

Date: / / 2020

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Priyadarshini Ramteke						Subject: ES		SEM II (2019-20)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	23-27 Dec		I	Concept of Culture and Civilization	Memory Game			31/12/19		
2	30 Dec - 4 Jan			Applied Humanities and Social Engineering,				8/1/20		
3	6 - 11 Jan		II	Meaning and Scope of Industrial Psychology and Industrial Sociology,	Case studies			10/1/20		
4	13 - 18 Jan			Fatigue, Selection and Training of Workers				29/1/20 31/1/20		
5	20 - 25 Jan	ANANNYA 2020								
6	27 Jan - 1 Feb		I	Right to Information(RTI), Public Interest Litigation (PIL), Intellectual Property Rights(IPR) & Patents, Lokpal	Seminar			Assignment		
7	3 - 8 Feb		II	Motives for Work in Industry, Transactional Analysis.	Discussion on motives			1/2/20 3/2/20		
8	10 - 15 Feb	SESSIONAL - I								
9	17 - 22 Feb		III	Sustainable development, Professional Ethics	Case studies			5/2/20 7/2/20		

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CCOEW/CE / 19-20

Date: / / 2020 Section - A

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Priyadarshini Ramteke | **Subject: ES** | **SEM II (2019-20)** | **Sem:- EVEN**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	23-27 Dec		I	Concept of Culture and Civilization	Memory Game			23/12/19		
2	30 Dec - 4 Jan			Applied Humanities and Social Engineering,				26/12/19		
3	6 - 11 Jan		II	Meaning and Scope of Industrial Psychology and Industrial Sociology,	Case studies			30/12/19		
4	13 - 18 Jan			Fatigue, Selection and Training of Workers				6/1/20 9/1/20		
5	20 - 25 Jan	ANANNYA 2020								
6	27 Jan - 1 Feb		I	Right to Information(RTI), Public Interest Litigation (PIL), Intellectual Property Rights(IPR) & Patents, Lokpal	Seminar			Assignment		
7	3 - 8 Feb		II	Motives for Work in Industry, Transactional Analysis.	Discussion on motives			27/1/20 30/1/20		
8	10 - 15 Feb	SESSIONAL - I								
9	17 - 22 Feb		III	Sustainable development, Professional Ethics	Case studies			3/2/20 6/2/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	24 - 29 Feb			Organizational Behavioral Dynamics: Leadership in Industry				15/2/2020		
11	2 - 7 March		IV	Indian Constitution and Federal System	Quiz			17/2/2020		
12	9 - 14 March			Fundamental Rights and Directive Principles.	MCQs			20/2/2020 24/2/2020		
13	16 - 21 March			Role of Bureaucracy in Modern Society, Industrial Democracy				27/2/2020 2/3/2020		
14	23 - 28 March		V	Works Organization: Power, Authority and Status System; Formal				5/3/2020 9/3/2020		
15	30 - 31 March			Industrialization and Urbanization: Study of Slums				7/3/2020 11/3/2020		
17	1 Apr - 8 Apr	SESSIONAL - II								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	24 - 29 Feb			Organizational Behavioral Dynamics: Leadership in Industry				9/2/20		
11	2 - 7 March		IV	Indian Constitution and Federal System	Quiz			25/2/20		
12	9 - 14 March			Fundamental Rights and Directive Principles.	MCQs			27/2/20		
13	16 - 21 March			Role of Bureaucracy in Modern Society, Industrial Democracy				4/3/20		
14	23 - 28 March		V	Works Organization: Power, Authority and Status System; Formal and Informal Organization				6/3/20 11/3/20		
15	30 - 31 March			Industrialization and Urbanization: Study of Slums				14/3/20		
17	1 Apr - 8 Apr	SESSIONAL - II								

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Lab Practicals Plan Sem. II

Date: 21/ 12 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Asha H. Gedam			Subject: MaC			for	Department: Allied science		Section: A
			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of flash and fire point by Abels closed cup apparatus		3/1/2020	27/12/20		2/1/2020	9/1/20		
2	Determination of flash and fire point by Pensky Marten's apparatus		10/1/2020	10/1/20		9/1/2020	9/1/20		
3	Determination of viscosity by Redwood viscometer		17/1/2020	7/2/20		16/1/2020	30/1/20		
4	Determination of moisture content of coal		28/2/2020	28/2/20		20/2/2020	20/2/20		
5	Determination of volatile matter of coal		6/3/2020	6/3/20		5/3/2020	5/3/20		
6	Determination of ash in coal		13/3/2020	13/3/20		27/2/2020	27/2/20		
7	Determination of acid value of lubricating oil		20/3/2020	20/3/20		12/3/2020	12/3/20		
8	Determination of saponification value of oil		27/3/2020	27/3/20		19/3/2020	19/3/20		

Subject teacher

Academic Coordinator

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Date: 16/ 8 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Asha H. Gedam			Subject: MaC			for	Department: Allied science		Section: B
			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of flash and fire point by Abels closed cup apparatus		1/1/2020	1/1/20		30/12/2020	30/12/20		
2	Determination of flash and fire point by Pensky Marten's apparatus		08/01/20	8/1/20		13/1/2020	1/1/20		
3	Determination of viscosity by Redwood viscometer		15/1/2020	15/1/20		27/1/2020	27/1/20		
4	Determination of moisture content of coal		19/2/2020	19/2/20		17/2/2020	17/2/20		
5	Determination of volatile matter of coal		4/3/2020	4/3/20		2/3/2020	2/3/20		
6	Determination of ash in coal		11/3/20	11/3/20		9/3/20	9/3/20		
7	Determination of acid value of lubricating oil		18/3/2020	18/3/20		16/3/2020	16/3/20		
8	Determination of saponification value of oil		25/3/2020	23/3/20		23/3/2020	23/3/20		

Subject teacher

Academic Coordinator

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Date: 21 / 12 / 2019

LESSON & TEACHING PLAN for Engineering Chemistry

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam — Year : 2019-20 — Sem:- II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
1	23-28 Dec.	3	2	Liquid fuels, fractional distillation of crude petroleum oil, Use of gasoline and diesel in internal combustion engine	One word substitution	Jain and Jain 72-75		28/12/19		
2	1-4 Jan	3	2	, knocking of fuel, Octane number and cetane number, Doping agents and fischer tropsch process., Numericals based on combustion calculations	Numericals solving	Jain & Jain 81-82, Dara 126-127,Jain 99-111		4/1/2020		
3	6-11 Jan	3	2	Cracking of petroleum-principle, types, catalyst used,advantages,		S. S. Dara, 116-121		4/1/2020 9/1/2020 10/1/2020		
4	13-18 Jan	3	2	Introduction : higher and lower calorific value, Determination of calorific value by Bomb and Boys gas calorimeter.		Jain & Jain 55-60		14/1/2020 15/1/2020 16/1/2020	14/1/20.	
5	20-24 Jan			Anannya						
6	27-31 Jan	2	1	Numerical based on calorific value determination, significance of proximate and ultimate analysis., Numericals on Dulongs formula, composition , properties and limitations of biodiesel	Numericals solving	Jain 61-68, Dara 150		27/1/20 30/1/20 31/1/20.		
7	3-8 Feb.	3	1	Composition, properties, advantages, limitations of LPG, CNG., Non conventional energy resources and their applications, advantages and disadvantages	Differentiation by students	Jain & Jain , 83-91		1/2/20 4/2/20 6/2/20	1/2/20	
				Sessional I			AC			

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
9	17-21 Feb	3	1	Lubricants- Introduction, mechanisms- hydrodynamic, boundary and extreme pressure lubrication		Jain & Jain, 427-430		17/2/20 20/2/20		
10	24-28 Feb			Retest I						
11	2-7 Mar	3	3	Biodegradable lubricants- Properties, applications, advantages and limitations, classification of lubricants, solid, semisolid and liquid lubricants.		Jain & Jain, 434-444		2/3/20 4/3/20 5/3/20		
12	9-14 Mar	3	3	Synthetic lubricants- Silicones, Lubricating emulsions, Properties of greases, drop point and consistency test	Experimentatio	Jain & Jain, 438-446		10/3/20 12/3/20 13/3/20 14/3/20	12/3/20	
13	16-21 Mar	3	3	Properties of liquid lubricants: Acid value, saponification number, flash and fire point, viscosity and viscosity index, Aniline point, Cloud and pour point, Criteria for selection of lubricants, Biodegradable polymers	Experimentatio	Jain & Jain, 173-181		17/3/20 20/3/20 21/3/20		
14	23-28 Mar	3	3	Properties and applications- polylactic acid (PLA) and polycaprolactone(PCL), Conducting polymers- polyaniline, polypyrolle, composite materials, particle reinforced and fibre reinforced, LCP		Pradeep, 114-125	PPT	24/3/20 27/3/20 28/3/20 29/3/20		
15	30-31 Mar	2	4	Nanomaterials- definition nano scale, carbon nano tubes, types and difference between single wall NT, Multi wall NT, application of nanomaterials in medicine, environment and electronics		Dara & Umare 36-54	PPT	31/3/20 31/3/20.		

Faculty in Charge

A C

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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CCOEW/CE / 19 -20

Date: 05 / 08 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin Gorantiwar					Sec A	Subject: Applied Maths I		SEM I Allied Science. (2018-19)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	05 Aug-10 Aug	5	III	MATRICES Inverse of Matrix by adjoint method Inverse by Partitioning method	Solving example by dividing group	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.1 to 2.17	PPT/video to solve inverse by adjoint method	07-08-19		
2	12 Aug-17 Aug	4	III	Rank of Matrix Solution of system of linear equations Consistency of linear system of equations Tutorial 1	Solving example	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.18 to 2.37	PPT/video for consistency of linear equation	14-08-19	T. 14-08-19	
3	19 Aug-24 Aug	5	VI	COMPLEX NUMBER Cartesian and polar form of compex numbers Demoiveres theorem Hyperbolic function and their inverse Logarithm of complex quantities Tutorial 2	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 315 to 354/362 to 392	PPT/video for defination of complex number,modulus,argument	26-08-19	Assignment 19-08-19 T. 26-08-19	
4	26 Aug-31 Aug	5	I	DIFFERENTIAL EQUATION- I First order first degree differential eqation linear Differential eqation Reducible to linear	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 555 to 592 (Vol2)	PPT/video for solved example of first order	05-09-19		

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No.	Week	Lect. No.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	27 Aug-01 Sept	6	I	Exact Differential eqation Equation Solvable for x,y,p Tutorial 3	Solving example	Pg. no. 593 to 621 (Vol2)	PPT/video for solved example of exact diff. equation	07.09.19	T. 07.09.19	
7	2 Sept- 7 Sept	4	III	PARTIAL DIFFERENTATION Function of several variable, first and higher order derivative Euler's Theorem chain rule and total diferential co-efficient	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 223 to 260 (Vol2)	PPT	21.09.19		
6	09 Sept-14 Sept	Sessional I								
9	16 Sept-21 Sept	6	III	Jacobians Taylors and Maclaurins series of two variable, Maxima and Minima of function of two Variable Lagranges method of undetermined multipliers Tutorial 4	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 273 to 328 (Vol2)	PPT	01.10.19		
8	23 Sept-28 Sept	5	IV	DIFFERENTIAL CALCULUS Defination and Notation, The nth derivative of standered function Partial Fraction Method of finding nth derivativ of rational function Leibneitz Rule (nth detivative)	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 1 to 26	PPT/video for solved example of leibneitz rule	07.10.19		
10	30 Sept-05 Oct	5	IV	Taylors Theorem , Maclaurins Theorem Indeterminate Forms Radius of curvature of cartesion	Solving example	Text book of Engineering Mathematics D.T.Deshmukh	PPT/video for solved example of indeterminent	16.10.19	16.10.19, A-3	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	07 Oct-12 Oct	4	V	DIFFERENTIAL EQUATION- II Higher order differential equation with constant coefficient up to method of variation of parameters.	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 671 to 721(Vol2)	PPT/video for solved example of higher order diff. equation	20.10.19		
12	14 Oct-19 Oct	6	V	Cauchys and Legenders homogeneous differantial eqation	Solving example	Pg. no. 721 to 731 (Vol2)		22.10.19		
13	21 Oct-23 Oct	3	V	Differential equation of the special type Application Tutorial 6	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 781 to 791 (Vol2)	PPT	08.11.19		
14	31 Oct-09 Nov	8	REVISION							
14	11 Nov-18 Nov	Sessional II								

12

Faculty i

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Academic year

2018-19

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CCOEW/CE / 19 -20

Date: 05 / 08 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sneha Uttarwar					Sec A	Subject: Applied Maths I		SEM I Allied Science. (2018-19)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	05 Aug-10 Aug	5	III	MATRICES Inverse of Matrix by adjoint method Inverse by Partitioning method	Solving example by dividing group	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.1 to 2.17	PPT/video to solve inverse by adjoint method	08/08		
2	12 Aug-17 Aug	4	III	Rank of Matrix Solution of system of linear equations Consistency of linear system of equations Tutorial 1	Solving example	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.18 to 2.37	PPT/video for consistency of linear equation	16/08	13/08 Tutorial -I	
3	19 Aug-24 Aug	5	VI	COMPLEX NUMBER Cartesian and polar form of compex numbers Demoiveres theorem Hyperbolic function and their inverse Logarithm of complex quantities Tutorial 2	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 315 to 354/362 to 392	PPT/video for defination of complex number,modulus,argument	22/08	20/08 Tutorial II	
4	26 Aug-31 Aug	5	I	DIFFERENTIAL EQUATION- I First order first degree differential eqation linear Differential eqation Reducible to linear	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 555 to 592 (Vol2)	PPT/video for solved example of first order	3/09		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	27 Aug-01 Sept	6	I	Exact Differential eqation Equation Solvable for x,y,p Tutorial 5	Solving example	Pg. no. 593 to 621 (Vol2)	PPT/video for solved example of exact diff. equation	07/09		
7	2 Sept- 7 Sept	4	III	PARTIAL DIFFERENTATION Function of several variable, first and higher order derivative Euler's Theorem chain rule and total diferential co-efficient	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 223 to 260 (Vol2)	PPT	11/10		
6	09 Sept-14 Sept	Sessional I								
9	16 Sept-21 Sept	6	III	Jacobians Taylors and Maclaurins series of two variable, Maxima and Minima of function of two Variable Lagranges method of undetermined multipliers Tutorial 4	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 273 to 328 (Vol2)	PPT	10/10		
8	23 Sept-28 Sept	5	IV	DIFFERENTIAL CALCULUS Defination and Notation, The nth derivative of standered function Partial Fraction Method of finding nth derivativ of rational function Leibneitz Rule (nth detivative)	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 1 to 26	PPT/video for solved example of leibneitz rule	19/09		
10	30 Sept-05 Oct	5	IV	Taylors Theorem , Maclaurins Theorem Indeterminate Forms Radius of curvature of cartesion	Solving example	Text book of Engineering Mathematics D.T.Deshmukh	PPT/video for solved example of indeterminent	24/09		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	07 Oct-12 Oct	4	V	DIFFERENTIAL EQUATION- II Higher order differential equation with constant coefficient up to method of variation of parameters.	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 671 to 721(Vol2)	PPT/video for solved example of higher order diff. equation	21/10		
12	14 Oct-19 Oct	6	V	Cauchys and Legenders homogeneous differantial eqation	Solving example	Pg. no. 721 to 731 (Vol2)		24/10		
13	21 Oct-23 Oct	3	V	Differential equation of the special type Application Tutorial 6	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 781 to 791 (Vol2)	PPT	07/11		
14	31 Oct-09 Nov	8	REVISION							
14	11 Nov-18 Nov		Sessional II							

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CCOEW/AS / 19-20

Date: 5 / 08 / 2019

LESSON & TEACHING PLAN for Engineering Physics

Department of Allied Science

Faculty Name: Prof. Dr.Sanjivani shastri | Year : 2019-20 | Sem:I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	5Aug-10Aug	3	III	Crystal structure, Meaning of lattice and basis, Unit cell: primitive and non primitive unit cellCubic crystal structure: Body and Face centered cubic structures, SC, BCC and FCC unit cells.		A textbook of Engineering Physics, By Avdhanulu,chpt no 16(pages469-483,491,492,494-500)Problems in Physics pages345-380)By Avdhanulu,2010Engineering Phy & Che by Subhash chander(313-329)Edition 2010	ppt.1	5/8/19 6/8/19 9/8/19		
12Aug-17Aug	2	III	Unit cell characteristics: Effective number of atoms per unit cell, atomic radius, nearest neighbor distance,coordination number, atomic packing fraction, void space, density; Crystal planes and Miller indicesInter-planar distance between adjacent planes, Bragg"s law of X-ray diffraction,	Hand made model showing various planes	A textbook of Engineering Physics, By Avdhanulu,chpt no 16(pages469-483,491,492,494-500)Edition 2010	video 1	9/8/19 13/8/19		

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Dr. Milind Khanapurkar
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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
3	19Aug-24Aug	3	III	Tetrahedral and octahedral voids.Numericals	Hand made model showing various planes,solving numericals in group	Problems in Physics pages345-380)By Avdhanulu,2010	ppt.1	14/8/19 17/8/19		
4	26Aug-31Aug	4	I	Plank"s Hypothesis, Properties of Photons ,Compton Effect,Wave – particle duality,	watching video in class	Textbook of engineering Physics by Avdhanulu Pages(322-328,356-360)Reprint 2010	video 2	Assign I Tutorial I 20/8/19 26/8/19	19/8/19	
5	1Sept-7 sept	4	I	De-Broglie Hypothesis, Davisson - Germer Experiment;Bohr"s Quantization condition,Numericals		A text book of Engineering Physics by Avdhanulu pages(361-379),Eng Phy & Che by Subhash Chander pages(229-243) Reprint 2010	ppt.2	22/8/19 24/8/19 27/8/19 3/9/19 5/9/19		
6	9sept-13 sept	Sessional I								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
7	16Sept-21Sept	3	II	Concept of Group and phase velocities, Wave packet,Thought experiment on single slit electron diffraction,Wave function and its probability interpretation,		A text book of Engineering Physics by Avdhanulu pages(361-379),Eng Phy & Che by Subhash Chander pages(229-243) Reprint 2010	ppt 3	7/09/19 17/9/19 19/9/19 21/9/19		
8	23Sept-28Sept	3	II	Wave function and its probability interpretation,		A text book of Engineering Physics by Avdhanulu pages(361-379),Eng Phy & Che by Subhash Chander pages(229-243) Reprint 2010	ppt3	24/9/19 26/9/19		
9	30Sept-5Oct	4	II	Solution of Schrödinger"s equation for one dimensional infinite potential well,Barrier Tunneling,Numericals			ppt3	30/9/19 1/10/19 3/10/19 5/10/19	Assignm 2 Tutorial 2	
10	7Oct-12Oct	2	IV	Band-theory based classification of solids into insulators, semiconductors and conductors,Fermi-Dirac distribution Function, Intrinsic semiconductors: Germanium and siliconFermi energy,Typical energy band diagram of an intrinsic semi-conductor, Doping and Extrinsic semiconductors,		Engineering Physics By Avdhanulu,pages(55-129),Problems in Physics pages(381-430),Elec & instrumentation by KC Jain pages (1-24)Problrms in Physics by Avdhanulu pages(315-324)Reprint 2010	ppt4	7/10/19 10/10/19 12/10/19 15/10/19 17/10/19		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
11	14Oct-19Oct	3		PN- junction diode; Unbiased, Forward baised & Reverse biased mode with Energy band diagram reference,Diode rectifier equation, s		Engineering Physics By Avdhanulu,pages(55-129),Problems in Physics pages(381-430),Elec & instrumentation by KC Jain pages (1-24)Problrms in Physics by Avdhanulu pages(315-324)Reprint 2010	ppt4	19/10/19 22/10/19 2/11/19 4/11/19	Assignment 3 Tutorial 3	
12	21Oct-23 Oct	1	IV	Bipolar Transistor action,NumericalsHall effect, Hall coefficient & Hall Angle,Numericals LED,VI		Problrms in Physics by Avdhanulu pages(315-324)Repint 2010	ppt4	5/11/19		
13	4Nov - 8Nov	3	IV	Numericals		Problrms in Physics by Avdhanulu pages(315-324)Repint 2010		7/11/19		

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Lab Practicals Plan Sem. I

Date: 5 / 8 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name:Dr. Sanjivani Shastri | **Subject:Engineering Physics** | **Department: Allied science** | **Section: A**

			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	AC's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	V-I characteristics of Semiconductor diodes		20/8/19	6/8/19		19/8/19	19/8/19		
2	Input, output and current transfer characteristics ofNPN transistor in CE mode	constant value of voltage and current is different	03/09/19	13/8/19		26/8/19	26/8/19		
3	Input, output and current transfer characteristics of NPN transistor in CB	constant value of voltage and current is different	17/9/19	27/8/19		16/9/19	26/8/19		
4	V-I characteristics of Zener diodes.	different types of diodes are given to diff students	24/9/19	20/8/19		30/9/2019	5/8/19		
5	Study of Diode as a rectifier.		21/10/19	1/10/19		28/10/19	12/10/19	12/10/19	
6	Study of LED.	Different colors of LED are given to diff studetns	1/10/19	24/9/19		7/10/2019	7/10/19	7/10/19	
7	Determination of band gap		15/10/19	24/9/19		14/10/19	7/10/19	7/10/19	

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CCOEW/AS / 19-20 Date: 8/ 8 / 2019

LESSON & TEACHING PLAN for Engineering Physics

Department of Allied Science

Faculty Name: Prof. Dr. Shubhangi Bompilwar	Sub: Engineering Physics	Sec: A	Year : 2019-20	Sem:- I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	5-9/8/19	3	III	Introduction of Crystal Structure, meaning of lattice & basis,		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 468-497	PPT	5/8		
				Unit cell: primitive and non primitive unit cell; cell characteristics of SC				7/8		
				BCC and FCC structures				9/8		
2	12-17/8/19	3		Miller Indices				9/8	Assignment	
				Inter-planar distance between adjacent planes, Relation between d and (hkl)'				14/8	17/8	
				Bragg's Law				14/8		
3	19-23/8/19	3		Numericals		Numericals: M N Avadhanulu, 345-380		16/8	19/8	
				Numericals				17/8		
				TEST				26/8		
4	26-31/8/19	4	I	Introduction of Quantum mechanism, comparison with Newtonian mechanics,Plank"s Hypothesis,Properties of Photons,		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 305-360		19/8		
				Compton effect				2/8		
				Compton effect				2/8		
2-7/9/19		3		Wave particle Duality, De-Broglie hypothesis, its applications				4/9		
				Matter wave, Bohr's Quantization condition.						
				Davisson - Germer Experiment				4/9		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
6	9-13 /9/ 19			Sessional I						
	16/9/19			ENGINEERS DAY						
7	17-21//9/19	2	I	Numericals		Numericals: M N Avadhanulu, 252-324	23/24/8	Tutorial		
				Numericals			5/9/19			
8	23-27//9/19	3		TEST on unit I			26/9/19			
			II	Concept of Group and phase velocities, their relation		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 356-378	18/9/19			
				Wave packet, Heisenberg"s uncertainty principle, Thought experiment on single slit			20/9			
10	1-5/10/19	3		Wave function and its probability interpretation, Schrödinger"s Time			21/9			
				Solution of Schrödinger"s equation for one dimensional infinite potential well,			23/9			
				Barrier Tunneling., Numericals			25/9			
11	7-11/10/19	3		Numericals		Numericals: M N Avadhanulu, 252-324	27/9	Tutorial		
				Numericals			27/9			
				Revision			-			
				Test			-			
12	14-19/10/19	3	IV	Introduction to semiconductor physics,Qualitative idea on the formation of		Text Book of Engineering Physics: M N	30/9/19		Ass. 2	
				band diagramof Li, SI, Ge			4/10		1/10/19	
				Intrinsic and Extrinsic semiconductors			7/10			
13	21-23/10/19	2		Fermi-Dirac distribution function			7/10			
				Intrinsic semiconductors , derivation of ni, EF			9/10			
14	25/11/19	3		Extrinsic semiconductor band dia and conductivity			11/10			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
14	1*2/11/19	2		Hall effect, Hall coefficient & Hall Angle,		Avadhanulu, P K Kshirasagar, 356-378		18/10		
	4-8/11/19	3		Numericals				15/10, 6/11		
				PN- junction diode; eq. of potential barrier, Vo				19/10		
				Band diagram of p-n diode at equilibrium, and biased				23/10		
				Characteristics of tunnel diode, zener diode, LED				1/11	T	
	11-16/11/19	2		Basics of Transistor, band dia. of pnp and npn transistors				4/11		
				Numericals		Numericals: M N Avadhanulu, 381-430		2/11 6/11		
17				Revision		Sessional II		8/11/19		

Sub. Teacher
Dr. S Bompilwar

HoT

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Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Lab Practicals Plan Sem. I

Date: 16/ 8 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Asha H. Gedam			Subject:			for	Department: Allied science		Section: A
			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of temporary, permanent and total hardness	Water Sample from Students residence	23/8/19	16/8/19	1	22/8/19	22/8/19.	1	
2	Estimation of amount of nickel by complexometry	–	30/8/19	22/8/19	1	29/8/19	22/8/19	1	
3	Determination of type and extent of alkalinity by Warder's method	–	06/09/19	20/9/19	1	5/9/2019	5/9/19	1	
4	Estimation of free chlorine by iodometry	–	13/9/19	04/10/19	1	19/9/19	19/9/19	1	
5	Estimation of dissolved oxygen	–	27/9/19	27/9/19	1	26/9/19	26/9/19	1	
6	Determination of copper by iodometry	–	11/10/19	11/10/19	1	3/10/2019	3/10/19	1	
7	Determination of calcium, magnesium hardness separately	–	18/10/19	18/10/19	1	10/10/2019	7/11/19.	1	
8	Determination of pH by pH meter	Also by using pH strips	25/10/19	25/10/19	1	17/10/19	17/10/19	1	

Subject teacher

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Date: 16/ 8 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Name: Dr. Asha H. Gedam		Subject:		for	Department: Allied science		Section: B
		Batch B1		Batch B2			
Name of experiment		Planned Date	Performed Date	No. of Viva done	Planned Date	Performed Date	No. of Viva done	HoT's Remark
print	possible Variations used	print	fill	fill	print	fill	fill	fill
Determination of temporary, permanent and total hardness	Water Samples from students residence	21/8/19	21/8/19	1	23/8/19	16/8/19	1	
Estimation of amount of nickel by complexometry	—	28/8/19	8/8/19	1	30/8/19	22/8/19	1	
Determination of type and extent of alkalinity by Warder's method	—	04/09/19	4/9/19	1	06/09/19	6/9/19	1	
Estimation of free chlorine by iodometry	—	18/9/19	18/9/19	1	13/9/19	25/9/19	1	
Estimation of dissolved oxygen	—	25/9/19	8/8/19	1	27/9/19	27/9/19	1	
Determination of copper by iodometry	—	9/10/19	9/10/19	1	11/10/19	11/10/19	1	
Determination of calcium, magnesium hardness separately	—	16/10/19	16/10/19	1	18/10/19	18/10/19	1	
Determination of pH by pH meter	By using pH strips	23/10/19	23/10/19	1	25/10/19	4/10/19	1	

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CCOEW/AS / 2019-20

Date: 16 / 8 / 2019

LESSON & TEACHING PLAN for Engineering Chemistry

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam | Year : 2019-20 | Sem:- I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
1	5-10 Aug	3	3	Introduction, raw materials of portland cement, Dry and wet process of manufacture, Cement moduli, Setting and Hardening of cement.	Balancing of chemical reactions	Walekar & Bharati 3A-7 to 3A-10		5,6, 07/8/19		
2	12-17 Aug	3	3	Heat of hydration, soundness, Types of cement- white, high alumina, Low heat, Rapid hardening cement		Walekar & Bharati 3A-11 to 3A-12	PPT	13/8/19 17/8/19.		
3	19-24 aug	3	3	RMC, Fly ash as cementing materials (Properties, advantages, limitations and applications.)	QA	S.S. Dara 306-307		19/8/19 20/8/19 20/8/19 21/8/19	20/8/19 5/9/19.	
4	26-31 Aug	3	4	Principles of green chemistry, Biocatalysis and concept of carbon credits,	QA	S.S. Dara 814-816		24/8/19 26/8/19.		
5	2-7 Sep		4	Battery Technology- primary, secondary, reserve batteries, definition of energy density, power density, Secondary battery: Lithium ion, nickel cadmium, alk fuel cell	Balancing of chemical reactions	S.S. Dara 717 to 735		04/9/19 07/9/19.		
6	9-14 Sept			Sessional I						
7	16-21 sep	3	2	Introduction, Consequences of corrosion, electrochemical & galvanic series, Factors influencing corrosion- nature of metal, nature of environment, chemical and electrochemical corrosion	QA	Jain & Jain 329, P.C.Jain and M. Jain 342-343		17/9/19. 18/9/19 20/9/19	18/9/19.	

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Lab Practicals Plan

Date: 17/6 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR						
Faculty Name: Prof. Vidya S Raut			Department:Allied Science			Sem:1st
	Subject: Computational Skill		Batch A1			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	AC's Remark
print	print	possible Variations used	print	fill	fill	fill
1	Fundamentals of Computer Operating System.Internal structure of Computer. demonstrate the use of System Software.Explain about "C" language Complier.	Study about basics Computer System .	6/8/2019 8/8/2019	6/8/2019 8/8/2019	10	
2	Fundamentals of "C" language: To demonstrate all types of operators (Arithmetic, Logical and Relational) ,different data types .Demonstrate the use of "printf" and "scanf" with all possible options	Various program to use scanf() function to take input from the user, and printf() function to display output to the user.	13/8/2019 20/8/2019 22/8/2019	13/8/2019 20/8/2019 22/8/2019	10	
3	Fundamentals of Decision Control Structures Contents: Demonstrate the use of if-else structure, Nested if structure.The use of Conditional operators (? Operator. The use of Switch.Case construct.	Check whether a number is even or odd Find the largest number among three numbers . Check Whether a Number is Positive or Negative or Zero.	27/8/2019 29/9/2019 3/9/2019	27/8/2019 3/9/2019	20	
4	Fundamentals of Loop Control Structures Contents: To demonstrate the use of "while" control structure. The use of "do while" control structure. The use of "for" control structure. The use of "break" and "continue" construct.	prints Hello 3 Times. Find factorial of a number . Reverse a number. Check whether a number is a palindrome or not. Check Armstrong number.	5/9/2019 17/9/2019 19/9/2019	7/9/2019 17/9/2019 19/9/2019	15	

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5	Fundamentals of One Dimensional Arrays Contents: To demonstrate the creation of array, addition of an element, deletion of an element and displaying the elements from one dimensional array.	Program to take 5 values from the user and store them in an array Program to find the average of n numbers using arrays Program to check prime numbers in an array.	24/9/2019 26/9/2019	24/9/2019 26/9/2019	10	
6	To demonstrate the implementation of bubble sort, selection sort and insertion sort. To demonstrate the implementation of linear search and binary search.	C Program on bubble sort, selection sort and insertion sort. To demonstrate the implementation of linear search and binary search.	1/10/2019 3/10/2019	1/10/2019 3/10/2019	10	
7	Fundamentals of Two Dimensional Arrays Contents: 1) To demonstrate the matrix manipulation operations like addition, multiplication.	C Program on matrix manipulation operations like addition, multiplication.	10/10/2019 15/10/2019	11/10/2019 15/10/2019	20	
8	Fundamentals of Functions Contents: 1) To demonstrate the implementation of functions. 2) To demonstrate the call by value parameter passing method.	C Program to Creating a user defined function addition(). C Program to Swapping the values of the two variables	17/10/2019 22/10/2019	15/10/2019 17/10/2019 22/10/2019	20.	

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Lab Practicals Plan Engineering Graphics I

Date: 05/08 /2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Abhijit S.Getme | **Subject: Engineering Graphics I** | **for** | **Department: Allied science** | **Section: A**

			Batch A2			Batch A1			
Pi	**Name of experiment**		**Planned Date**	**Perform Date**	**No. of Viva done**	**Planned Date**	**Perform Date**	**No. of Viva done**	**HoD's Remark**
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Curves	Drawing instruments	24/09/19	24/09/19	24/09/19	24/09/19	24/09/19	24/09/19	
2	Projection of Lines	Drawing instruments	01-10-19	01/10/19	01/10/19	01-10-19	01/10/19	01/10/19	
3	Projection of Planes	Drawing instruments	15/10/19	15/10/19	15/10/19	15/10/19	15/10/19	15/10/19	
4	Projections of solids	Drawing instruments	22/10/19	22/10/19	22/10/19	22/10/19	22/10/19	22/10/19	
5	Orthographic Views	Drawing instruments	29/10/19	29/10/19	29/10/19	29/10/19	29/10/19	29/10/19	
6	Isometric Views/Projection	Drawing instruments	29/10/19	29/10/19	29/10/19	29/10/19	29/10/19	29/10/19	

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Lab Practicals Plan Engineering Graphics I

Date: 05/08 /2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR									
Faculty Name: Prof. Abhijit S.Getme			Subject: Engineering Graphics I			for	Department: Allied science		Section: B
			Batch B2			Batch B1			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Curves	Drawing instruments	19/09/19	19/09/19	26/09/19	19/09/19	19/09/19	26/09/19	
2	Projection of Lines	Drawing instruments	26/09/19	26/09/19	26/09/19	26/09/19	26/09/19	26/09/19	
3	Projection of Planes	Drawing instruments	26/09/19	26/09/19	03/10/19	26/09/19	26/09/19	03/10/19	
4	Projections of solids	Drawing instruments	10-03-2019	03/10/19	10/10/19	10-03-2019	03/10/19	10/10/19	
5	Orthographic Views	Drawing instruments	10-10-2019	10/10/19	17/10/19	10-10-2019	10/10/19	17/10/19	
6	Isometric Views/Projection	Drawing instruments	17/10/19	17/10/19	17/10/19	17/10/19	17/10/19	17/10/19	

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/AS / 19-20

Date: 05/08/2019

LESSON & TEACHING PLAN for Engineering graphics I

Department of Allied Science

Faculty Name: Prof. Abhijit S.Getme | **Year : 2019-20** | **Sem:- I**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	05-10 Aug	3	1	Introduction , Use of various drawing instruments, lettering, Layout of drawing sheets, sizes of drawing sheets, different types of lines used in drawing practice, Dimensioning – linear, angular, aligned system, unidirectional system, parallel dimensioning, chain dimensioning, location dimension and size dimension. Introduction to scales & scale factor (RF).	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/1-2/1.1 2.31	PPT	17 Aug		
2	12-17 Aug	3	1	Conic sections - Ellipse, Parabola, Hyperbola, (No Directrix – Focus Method), Cycloid, Involute & Archimedean Spiral	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/3-4/3.1 4.22	PPT	31 Aug		
3	19-24 Aug	3	1	Basic principles of orthographic projection, reference planes, concepts of four quadrants, methods of orthographic projections – First angle projections, Third angle projections, conventions used to represent methods of orthographic projection.Projections of points in all possible positions w.r.t. reference planes, projections of lines when it is perpendicular to one of the reference planes	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/7/7.1-7.75	PPT	07 Sep		
4	26-31 Aug	3	1 and 2	line is inclined to one & parallel to other reference plane, lines inclined to both reference planes. (Lines in First Quadrant Only), simple problems on straight lines.Projection of planes when it is parallel to one of the reference planes, lying in reference plane	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/7-8/7.1-7.75/8.1-8.41	PPT	21/Sep		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	02-07 Sep	3	2	perpendicular to one & inclined to other reference plane, when it is inclined to both reference planes.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/8/8.1-8.41	PPT	21 Sep		
6	16-21 Sep	3	2	Use of Auxiliary Plane method for solving the problems.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/8/8.1-8.41	PPT	23Sep		
7	23-28 Sep	3	2	Projections of solids when axis is perpendicular to one of the reference planes , when axis is inclined to one & parallel to other reference plane,	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/9/9.1-9.60	PPT	28Sep		
8	30Sep-05 Oct	3	2	axis is inclined to both the reference planes, projections of cube, right regular prisms, right regular pyramids, right circular cylinder, right circular cone, tetrahedron.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/9/9.1-9.60	PPT	05Sep		
9	07-12 Oct	3	3	Orthographic Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/5/5.1-5.24	PPT	12Oct		
10	14-19 Oct	3	3	Orthographic Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/5/5.1-5.24	PPT	19Oct		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition, No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	02-07 Sep	3	2	perpendicular to one & inclined to other reference plane, when it is inclined to both reference planes.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/8/8.1-8.41	PPT	21 Sep		
6	16-21 Sep	3	2	Use of Auxiliary Plane method for solving the problems.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/8/8.1-8.41	PPT	23sep		
7	23-28 Sep	3	2	Projections of solids when axis is perpendicular to one of the reference planes , when axis is inclined to one & parallel to other reference plane,	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/9/9.1-9.60	PPT	28sep		
8	30Sep-05 Oct	3	2	axis is inclined to both the reference planes, projections of cube, right regular prisms, right regular pyramids, right circular cylinder, right circular cone, tetrahedron.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/9/9.1-9.60	PPT	05 sep		
9	07-12 Oct	3	3	Orthographic Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/5/5.1-5.24	PPT	12 Oct		
10	14-19 Oct	3	3	Orthographic Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/5/5.1-5.24	PPT	19 Oct		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	21-26 Oct	3	4	Isometric Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/12/12. 1-12.47	PPT	16 Oct		
12	28 Oct-05Nov	3	4	Isometric Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/12/12. 1-12.48	PPT	05 Nov		

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CCOEW/AS / 19-20

Date: 05/08/2019

LESSON & TEACHING PLAN for Engineering graphics I

Department of Allied Science

Faculty Name: Prof. Abhijit S.Getme | Year : 2019-20 | Sem:- I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	05-10 Aug	3	1	Introduction , Use of various drawing instruments, lettering, Layout of drawing sheets, sizes of drawing sheets, different types of lines used in drawing practice, Dimensioning – linear, angular, aligned system, unidirectional system, parallel dimensioning, chain dimensioning, location dimension and size dimension. Introduction to scales & scale factor (RF).	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/1-2/1.1-2.31	PPT	17 Aug		
2	12-17 Aug	3	1	Conic sections - Ellipse, Parabola, Hyperbola, (No Directrix – Focus Method), Cycloid, Involute & Archimedean Spiral	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/3-4/3.1-4.22	PPT	24 Aug		
3	19-24 Aug	3	1	Basic principles of orthographic projection, reference planes, concepts of four quadrants, methods of orthographic projections – First angle projections, Third angle projections, conventions used to represent methods of orthographic projection.Projections of points in all possible positions w.r.t. reference planes, projections of lines when it is perpendicular to one of the reference planes	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/7/7.1-7.75	PPT	07 Sep		
4	26-31 Aug	3	1 and 2	line is inclined to one & parallel to other reference plane, lines inclined to both reference planes. (Lines in First Quadrant Only), simple problems on straight lines.Projection of planes when it is parallel to one of the reference planes, lying in reference plane	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/7-8/7.1-7.75/8.1-8.41	PPT	16 Sep		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	02-07 Sep	3	2	perpendicular to one & inclined to other reference plane, when it is inclined to both reference planes.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/8/8.1-8.41	PPT	21 sep		
6	16-21 Sep	3	2	Use of Auxiliary Plane method for solving the problems.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/8/8.1-8.41	PPT	28 sep		
7	23-28 Sep	3	2	Projections of solids when axis is perpendicular to one of the reference planes , when axis is inclined to one & parallel to other reference plane,	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/9/9.1-9.60	PPT	30 sep		
8	30Sep-05 Oct	3	2	axis is inclined to both the reference planes, projections of cube, right regular prisms, right regular pyramids, right circular cylinder, right circular cone, tetrahedron.	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/9/9.1-9.60	PPT	05 oct		
9	07-12 Oct	3	3	Orthographic Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/5/5.1-5.24	PPT	12 oct		
10	14-19 Oct	3	3	Orthographic Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/5/5.1-5.24	PPT	19 oct		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	21-26 Oct	3	4	Isometric Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/12/12. 1-12.47	PPT	26 oct		
12	28 Oct-05Nov	3	4	Isometric Projections	Solid Models	Engineering Graphics-Basant Agrawal,C M Agrawal/12/12. 1-12.48	PPT	05/NOV		

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Lab Practicals Plan

Date: 17/6 / 2019

Faculty Name: Prof. Vidya S Raut			Department: Allied Science			Sem: 1st
Subject: Computational Skill			Batch A1			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	AC's Remark
print	print	possible Variations used	print	fill	fill	fill
1	Fundamentals of Computer Operating System.Internal structure of Computer. demonstrate the use of System Software.Explain about "C" language Complier.	Study about basics Computer System .	6/8/2019 8/8/2019	6/8/2019 8/8/2019	10	
2	Fundamentals of "C" language: To demonstrate all types of operators (Arithmetic, Logical and Relational) ,different data types .Demonstrate the use of "printf" and "scanf" with all possible options	Various program to use scanf() function to take input from the user, and printf() function to display output to the user.	13/8/2019 20/8/2019 22/8/2019	13/8/2019 20/8/2019 22/8/2019	10	
3	Fundamentals of Decision Control Structures Contents: Demonstrate the use of if-else structure, Nested if structure.The use of Conditional operators (? Operator. The use of Switch.Case construct.	Check whether a number is even or odd Find the largest number among three numbers . Check Whether a Number is Positive or Negative or Zero.	27/8/2019 29/9/2019 3/9/2019	27/8/2019 3/9/2019	20	
4	Fundamentals of Loop Control Structures Contents: To demonstrate the use of "while" control structure. The use of "do while" control structure. The use of "for" control structure. The use of "break" and "continue" construct.	prints Hello 3 Times. Find factorial of a number . Reverse a number. Check whether a number is a palindrome or not. Check Armstrong number.	5/9/2019 17/9/2019 19/9/2019	7/9/2019 17/9/2019 19/9/2019	15	

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5	Fundamentals of One Dimensional Arrays Contents: To demonstrate the creation of array, addition of an element, deletion of an element and displaying the elements from one dimensional array.	Program to take 5 values from the user and store them in an array Program to find the average of n numbers using arrays Program to check prime numbers in an array.	24/9/2019 26/9/2019	24/9/2019 26/9/2019	10	
6	To demonstrate the implementation of bubble sort, selection sort and insertion sort. To demonstrate the implementation of linear search and binary search.	C Program on bubble sort, selection sort and insertion sort. To demonstrate the implementation of linear search and binary search.	1/10/2019 3/10/2019	1/10/2019 3/10/2019	10	
7	Fundamentals of Two Dimensional Arrays Contents: 1) To demonstrate the matrix manipulation operations like addition, multiplication.	C Program on matrix manipulation operations like addition, multiplication.	10/10/2019 15/10/2019	11/10/2019 15/10/2019	20	
8	Fundamentals of Functions Contents: 1) To demonstrate the implementation of functions. 2) To demonstrate the call by value parameter passing method.	C Program to Creating a user defined function addition(). C Program to Swapping the values of the two variables	17/10/2019 22/10/2019	15/10/2019 17/10/2019 22/10/2019	20.	

Fac

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Lab Practicals Plan Sem. I

Date: 05 / Aug / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande			Subject: Communication Skills			for	Department: Allied science		Section: B
			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	BARRIERS TO COMMUNICATION	Different set of questionnare given	9/8/2019	7/8		7/8/2019	7/8		
2	DEVELOPMENT OF WORD POWER	Different set of Exercises given	16/8/2019	16/8		14/8/2019	14/8		
3	SPEAKING SKILLS	varies topics given to all	23/8/2019	20/8		21/8/2019	21/8		
4	GROUP DISCUSSION	Different topics given for discuss	20/9/2019	20/9		4/9/2019	4/9		
5	INTERVIEW TECHNIQUES	Diff. setg exp. given as practice	4/10/2019	4/10		25/9/2019	25/9		
6	FORMAL LETTER WRITING,TECHNICAL REPORT WRITING	All types of sample Eg given as practice	18/10/2019	18/10		16/10/2019	16/10		
7	PRESENTATION SKILLS	presentation made on varis topics	8/11/2019	8/11		6/11/2019	6/11		

Subject Faculty R. Deshpande

HoT

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Lab Practicals Plan Sem. I

Date: 05 / Aug / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande			Subject: Communication Skills			for	Department: Allied science		Section: A
			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	BARRIERS TO COMMUNICATION	Different set of questionnaire given	8/8/2019	9/8		9/8/2019	7/8		
2	DEVELOPMENT OF WORD POWER	Different set of Excercises given	22/8/2019	22/8		16/8/2019	16/8		
3	SPEAKING SKILLS	various activities taken	29/8/2019	13/9		23/8/2019	23/8		
4	GROUP DISCUSSION	different topic given	19/9/2019	19/9		20/9/2019	20/9		
5	INTERVIEW TECHNIQUES	Sample ques. given	3/10/2019	3/10		4/10/2019	04/10		
6	FORMAL LETTER WRITING,TECHNICAL REPORT WRITING	Different types of Q. given to all	17/10/2019	17/10		18/10/2019	18/10		
7	PRESENTATION SKILLS	presentation made of different topic	7/11/2019	07/11		8/11/2019	8/11		

Subject Faculty

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CCOEW/CE / 18-19

Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sneha Uttarwar						Subject: Applied Maths II		SEM II Allied Science (2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24 Dec-29 Dec	1		Introduction of syllabus						
2	31 Dec-05 Jan	6	VI(B)	FINITE DIFFERENCES Forward difference operator (Δ), Shifting operator E, Factorial Notation	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.534 to 544	PPT/video to solve example and algorithms of method	31/12/18		GVS
3	07 Jan-12 Jan	5	VI(B)	Lagranges interpolation formula for unequal intervals Difference Equation: Soloution of difference equation with constant coefficient	Solving example	Text Book By D.T. Deshmukh Pg no.567 to 573 & 600 to 624	PPT/video to solve example and algorithms of method	06/1/19 Tutorial-I	11/01/19 Assignment I	GVS
4	14 Jan-19 Jan	5	VI(A)	STATISTICS :CURVE FITTING Fitting of curve ; straight line a+bx, Fitting of curve parabola, A fitting of expoential curve by method of least square method	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.876 to 891	PPT/video to solve example and algorithms of method	08/01/19 .		GVS
5	21 Jan-26 Jan	5	VI(A)	Coefficient of correlation, Line of regressions, properties of correlation coefficient,Correlation by rank	Solving example	Text Book By D.T. Deshmukh Pg no.891 to 912	PPT/video to solve example and algorithms of method	Taken ~~25/1/19~~ on sunday 06/01/19		GVS
6	28 Jan-02 Feb	Anannya Cultural Festival GVS								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	04 Feb-09 Feb	5	I	INTEGRAL CALCULUS - I Gamma function, Beta function	Solving example	Text Book By D.T. Deshmukh Pg no.165 to 185	PPT/video to solve example of inverse	10/01/19	06/02/19 Assignment-II	GVJ
8	11 Feb-16 Feb	6	I	Differentation of definite integral by leibneit'z rule, The mean value,The root mean value, The root mean square value	Solving example	Text Book By D.T. Deshmukh Pg no.187 to 194	PPT/video to solve example of convolution theorem	12/01/19 Tutorial-II		GVJ
9	18 Feb-23 Feb	SESSIONAL-I								
10	25 Feb-02 Mar	6	II	VECTOR DIFFERENTIAL CALCULUS Vector tripple product,Scaler product of four vector and vector product of four vector,Vector differentation,Gradient of vector,Divergence of vector point function & Curl,Directional derivative of function with their physical interpretation	Solving example	Text Book By D.T. Deshmukh Pg no.194 to 248	PPT	06/02/19 Tutorial-III 16/02/19		GVJ
11	04 Mar-09 Mar	5	IV	Solenodial vector, Irrotational motion INTEGRAL CALCULUS - II Tracing of curve (cartesian & Polar),Rectification of simple curve,Quadrature , volume,Surface of solid revoluation (cartesian,Polar and parametric form)	Solving example	Text Book By D.T. Deshmukh Pg no.497 to 531	PPT/video for solved example of probability function	23/02/19 Tutorial-IV 5/03/19		GVJ
12	11 Mar-16 Mar	6	IV	VECTOR INTEGRAL CALCULUS line integral, Surface integral ,volume integral,Stroke's theorem,Gauss divergence theorem,Green's theorem,Application	Solving example	Text Book By D.T. Deshmukh Pg no.501 to 554	PPT/video for solved example of mathematical exceptation	06/03/19 Tutorial-V 09/03/19	14/03/19 Assignment-III	GVJ

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	18 Mar-23 Mar	5	V	MULTIPLE INTEGRAL AND THEIR APPLICATION Elementary double integrals, Change of variable (simple trasformation),Change of order of integration (cartesian and polar)	Solving example	Text Book By D.T. Deshmukh Pg no.343 to 370	PPT	11/03/19 Tutorial - VI 14/03/19		GAS
14	25 Mar-30 Mar	6	III	method to change given integration into polar form,Application of integration to find mass area volume and Centre of gravity of plane lamina, Elementary tripple integration	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.371 to 425	PPT	15/03/19 Tutorial - VI 21/03/19		GAS
15	01 Apr-8 Apr			Sessional II						

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CCOEW/CE / 18-19

Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin Gorantiwar						Subject: Applied Maths II		SEM II Allied Science (2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24 Dec-29 Dec	1		Introduction of syllabus						
2	31 Dec-05 Jan	6	VI(B)	- FINITE DIFFERENCES Forward difference operator (Δ), Shifting operator E, Factorial Notation	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.534 to 544	PPT/video to solve example and algorithms of method	01-01-19		Mention dates of Tutorial & assignment
3	07 Jan-12 Jan	5	VI(B)	Lagranges interpolation formula for unequal intervals Difference Equation: Soloution of difference equation with constant coefficient	Solving example	Text Book By D.T. Deshmukh Pg no.567 to 573 & 600 to 624	PPT/video to solve example and algorithms of method	05.01.19		GVJ
4	14 Jan-19 Jan	5	VI(A)	STATISTICS :CURVE FITTING Fitting of curve ; straight line a+bx, Fitting of curve parabola, A fitting of expoential curve by method of least square method	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.876 to 891	PPT/video to solve example and algorithms of method	07.01.19		GVJ
5	21 Jan-26 Jan	5	VI(A)	Coefficient of correlation, Line of regressions, properties of correlation coefficient,Correlation by rank	Solving example	Text Book By D.T. Deshmukh Pg no.891 to 912	PPT/video to solve example and algorithms of method	06.01.19		GVJ
6	28 Jan-02 Feb	Anannya Cultural Festival GVJ								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
7	04 Feb-09 Feb	5	I	INTEGRAL CALCULUS - I Gamma function, Beta function	Solving example	Text Book By D.T. Deshmukh Pg no.165 to 185	PPT/video to solve example of inverse	11-01-19		GMS
8	11 Feb-16 Feb	6	I	Differentation of definite integral by leibneit'z rule, The mean value,The root mean value, The root mean square value	Solving example	Text Book By D.T. Deshmukh Pg no.187 to 194	PPT/video to solve example of convolution theorem	12-01-19		
9	18 Feb-23 Feb	SESSIONAL-I								
10	25 Feb-02 Mar	6	IV	VECTOR DIFFERENTIAL CALCULUS Vector tripple product,Scaler product of four vector and vector product of four vector,Vector differentation,Gradient of vector,Divergence of vector point function & Curl,Directional derivative of function with their physical interpretation	Solving example	Text Book By D.T. Deshmukh Pg no.194 to 248	PPT	15.02.19		GMS
11	04 Mar-09 Mar	5	IV II	Solenodial vector, Irrotational motion INTEGRAL CALCULUS - II Tracing of curve (cartesian & Polar),Rectification of simple curve,Quadrature , volume,Surface of solid revoluation (cartesian,Polar and parametric form)	Solving example	Text Book By D.T. Deshmukh Pg no.497 to 531	PPT/video for solved example of probability function	06-03		GMS
12	11 Mar-16 Mar	6	V	VECTOR INTEGRAL CALCULUS line integral, Surface integral ,volume integral,Stroke's theorem,Gauss divergence theorem,Green's theorem,Application	Solving example	Text Book By D.T. Deshmukh Pg -no.501 to 554	PPT/video for solved example of mathematical exceptation	09.03		GMS

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GMS
HOD

G

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	18 Mar-23 Mar	5	V III	MULTIPLE INTEGRAL AND THEIR APPLICATION Elementary double integrals, Change of variable (simple trasformation),Change of order of integration (cartesian and polar)	Solving example	Text Book By D.T. Deshmukh Pg no.343 to 370	PPT	12-03		
14	25 Mar-30 Mar	6	III	method to change given integration into polar form,Application of integration to find mass area volume and Centre of gravity of plane lamina, Elementary tripple integration	Solving example by dividing group	Text Book By D.T. Deshmukh Pg no.371 to 425	PPT	19-03-		
15	01 Apr-8 Apr			Sessional II						

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12

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LESSON & TEACHING PLAN

Faculty Name: Dr. Shubhangi Bompilwar | **Sub: Advanced Physics** | **First Year (2018-19)** | **Sem:-**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no, Page no	ICT tools	Completion Date	Assignment /Tutorial	HOD's Sign
1	24-31Dec	1	I	Advanced Physics syllabus discussion		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 395-410&143-160		29/12		
2	1Jan-5Jan 19	4		Presentation on " Gravitational Waves"			Projector	1/1/19		
				Introduction of Laser, Interaction of radiation with matter	Q-A			31/12/18		
				Absorption, Spontaneous emission and Stimulated emission; Difference				31/12		GH
				Spatial & Temporal coherence,Principle and Characteristics of LASER	Group discussion			2/1/19		
				Pumping Schemes,Three & four level Lasers			Projector	2/1/19	5/1/19 T	
2	7-12 Jan	4		Working of He-Ne Laser ,Ruby LASER				3/1/19		
				Semiconductor Laser and Applications			Projector	5/1/19	GH	
				Numericals	solving problems on board by students	Problems in Physics M N Avadhanulu, 345-380		7/1/19		
				Numericals				7/1/19		
3	14-19 Jan	4		Interference in thin films, Wedge shaped film	Quiz	Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 143-160	Online.	8/1/19		- Google form
				Newtons Rings, antireflection coating				9,10/1/19	16/1/19 T Ass. I	GH
				Numericals				10/1		
				Numericals		Problems in Physics M N Avadhanulu, 345-380		14/1		
4	21-25 Jan	3	II	Lorentz force, Motion of charged particles in uniform electric field	Lab activity - CRT	Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 43-58		17/1/19		
				magnetic fields: parallel, perpendicular and at an acute angle				22/1/19		GH
				Electrostatic and magnetostatic deflection.				22, 24/1/19		
	28Jan-2 Feb				Anannya cultural Festival					
	4-9 Feb	4		Effect of electric and magnetic fields on kinetic energy of charged particle,				17, 22/1/19		

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5				Crossed electric and magnetic field configurations Velocity filter,				24/1/19		
				Numericals	gropu discussion and solving	Problems in Physics M N Avadhanulu, 345-380		5/1/19		
				Numericals				5,6,7/2/19	T	
	11-16 Feb	4	III	Test				11/2	AS II	
				Bethe"s law. Construction & working of Electrostatic lens	LAB visit			12/2		
7				Electric and Magnetic focusing		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 70-100	Projector	13/2		
				CRT, Block Diagram, Function & working of each block.			charts	23/2/19		
				CRO. Block Diagram, Function & working of each						
	19-23 Feb			Sessional I (Mid Term Test)						
8	25Feb-2March	3		Applications of CRO				25/2/19		
				Bainbridge mass spectrograph, Cyclotron.				26/2		
				Numericals		Numericals: M N Avadhanulu, 319-324		27/2		
9	4March -9 March	3		Numericals				2/3		
				Test				4/3	T, A III	
			IV	Optical fibers: Propagation by total internal reflection,				1/3/19		
10	12 March - 17March	4		, Modes of propagation in fiber, Attenuation and dispersion. Light sources and Detectors.		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 698-725		9/3		
				Acceptance angle, Numerical aperture,				7/3		
				Applications: various sensors				14/3		
11	19March - 24March	3		Numericals		Numericals: M N Avadhanulu, 381-430		13/3		
				TEST / Detectors.				16/3		
				Introduction to nanoscience and nanotechnology, Classification of nano materials		Introduction to Nanotechnology: Pooly & Owens; Willey Publication, Nanoscience by T Pradip	projector-PPT	19/3		
12	26March - 31March	4		Synthesis of Nanomaterials, . e.g; Physical VapourDeposition and Sol gel method.				20/3		
				Comparison of properties of nanomaterials with bulk materials,				20/3/19		
				Zeolites, 2) Graphine,						
				Revision						
				Sessional II (Pre- University Test)						

Sub. Teacher

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Lab Practicals Plan Sem. II

Date: 24 / 12 / 2018

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. S Bompilwar			**Subject: Advanced Physics**			**for**	**Department: Allied science**		**Section: B**
			Batch B2			**Batch B1**			
Pi	**Name of experiment**		**Planned Date**	**Perform Date**	**No. of Viva done**	**Planned Date**	**Perform Date**	**No. of Viva done**	**HoD's Remark**
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of radius of curvature of Plano-convex lens by Newton's Ring Expt.		31/12/2018	31/12/18	✓	3/1/2019	3/1/19	✓	GVS
2	To determine the wavelength of Laser source by plane diffraction gratting.	Distance variation	07/01/19	7/1/19	✓	10/1/2019	10/1/19	✓	GVS
3	Determination of refractive index of prism		04/02/19	25/2/19	✓	7/2/2018	7/3/19	✓	GVS
4	Determination of specific cgarge (e/m) of an electron by Thomson's method		11/02/19	11/2/19	✓	14/2/2019	7/2/19	✓	GVS
5	Determination of wavelength of sodium light by plane diffraction gratting		25/2/2019	15/1/19	✓	28/2/19	17/1/19	✓	GVS
6	Study of Cathode Ray Oscilloscope (CRO) and measurement of AC and DC voltages	Different values of input voltage	4/3/19	4/3/19	✓	7/3/2019	2/3/19	✓	GVS
7	Determination of phase difference and Frequency of electrical signals using CRO	Different values of resisrors and capacirors	18/3/2019	11/3/19	✓	21/3/19	14/3/19	✓	GVS

Sub. Teacher

HoD

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Lab Practicals Plan Sem. II

Date: 28 / 12 / 18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr Sanjivani shastri			Subject:Advanced Physics			for	Department: Allied science		Section: A
			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	DETERMINATION OF RADIUS OF CURVATURE OF PLANO-CONVEX LENS BY NEWTON'S RINGS	two sets have different radii	22/1/19	8/1/19		16/1/19	9/1/19		GVAS
2	TO DETERMINE THE WAVELENGTH OF LASER SOURCE BY PLANE DIFFRACTION GRATING	variable distance	22/1/19	8/1/19		16/1/19	9/1/19		GVAS
3	DETERMINATION OF THE REFRACTIVE INDEX OF PRISM		5/3/2019			6/2/2019			
4	DETERMINATION OF WAVELENGTH OF SODIUM LIGHT USING PLANE DIFFRACTION GRATIN		26/2/19	12/2/19		27/2/19	6/2/19		GVAS
5	STUDY OF CATHODE RAY OSCILLOSCOPE (CRO) AND MEASUREMENT OF AC AND DC VOLTAGES	variable input	12/3/2019			13/3/19			
6	DETERMINATION OF PHASE DIFFERENCE AND FREQUENCY OF ELECTRICAL SIGNALS USING CRO	variable input	26/3/19			27/3/19			
7	DETERMINATION OF SPECIFIC CHARGE (e/m) OF AN ELECTRON BY THOMSON'S METHOD		12/3/2019	12/2/19.		13/2/19	13/2/19.		GVAS

Faculty in charge GVAS

GVAS HoD

Cummins College of Engineering for Women, Hingna, Nagpur-441110

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Maharshi Karve Stree Shikshan Samstha's

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Cummins College of Engineering for Women, Nagpur

CCOEW/AS / 18-19

Date: 17 /12 / 2018

LESSON & TEACHING PLAN for Advanced Physics

Department of Allied Science

Faculty Name: Prof Dr Sanjivani shastri

Year : 2018-19 SEM II

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	24 -29 Dec 18	1	I	Interference in thin films, Interference in Wedge shape thin film,	Read aloud,Co relating daily life examples	Textbook of Optics by Avadhanulu(323-325)A Text book of EP by Avadhanulu(142-154:395-421)Edition No 14,Problems in Physics by Avadhanulu(192-223) 4th edition	ppt	29/12/18 3/1/19		
2	31Dec -5 Jan 19	3	I	Newton"s rings, Anti-reflection coating and applications			ppt	4/1/19 5/1/19		
3	7-12 Jan 19	3	I	Numericals	Group Solving			7/1/19 8/1/19		
4	14-19 Jan 19	3	I	Spatial and temporal coherence of a light wave, Quantum Transitions: Absorption, Spontaneous emission & stimulated Emission,Metastable states, Pumping schemes, Principle of laser,		Textbook of Optics by Avadhanulu(323-325)A Text book of EP by Avadhanulu(142-154:395-421)		10/1/19		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
5	21-25 Jan19	4	I	Numericlas	Solving in groups	Problems in Physics by Avadhanulu(192-223) 4th edition		14/1/19 17/1/19	Assignment 1 Tutorial 1	GMS
6	28 Jan -2 Feb 19	Annany Weeek								
7	4-9 Feb 19	3	II	Motion of charged particles in uniform ele& mag field Motion of electron in parallel & per fields,acute angle condition,		EP By Avadhnulu(43-69) Numericals in Physics by Avadhanulu(40-117) 4th edition		18/1/19 19, 21, 22, 25 Jan 19		GM
8	11-16 Feb 19	4	II	Effect of mag & electric field on KE of charged particles Velocity filter,cross field connetion and numericals				5, 7, 8, 12 14 Feb 19	Assignment Tutorial 2	GM
9	18-23 Feb 19	Sessional I								
10	25 Feb -2 Mar 19	4	III	Bethe"s law, Electric and Magnetic focusing,		EP by Avadhnulu(333-359)14 th edition	ppt	25 Feb		
11	4-9 Mar19	3	III	Construction & working of Electrostatic lens,CRT, CRO, Block Diagram,Function & working of each block,			ppt	4, 5 9 March		GMS
12	11-16 Mar 19	4		Modes of propagation in fiber, Acceptance angle,Numerical aperture, Attenuation and dispersion		EP By Avadhanulu(329-379),Problems in Physics by Avdhanulu,14th edition	ppt	11, 13 16 Mar		GM
13	18-22 Mar 19	3		Light sources and Detectors,As a Sensors - i) Temperature Sensor ii) Pollution / Smoke detector iii) Liquid,Numericals			ppt	18, 20 22 Mar		GM

GMS

Faculty in Charge

GM

HOD

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Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
25-30 Mar 19	4		Introduction to nanoscience and nanotechnology, Classification of nano materials,Synthesis of nano materials nanomaterials,1) Zeolites,2)Graphine Application of nanomaterials in engineering, Impact of Nanoscience and nanotechnology .		Intro to Nano by Poole(1,154)&Nano the essentials by Pradeep(3-9)edition no 1	ppt	25, 27 30 mar		
1April-8 April 19			**Sessional II**						

ulty in Charge

HOD

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Lab Practicals Plan Sem. II

Date: 29 /12 /2018

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Asha H. Gedam | **Subject: Materials Chem.** | **for** | **Dept: Allied sci.** | **Section: A**

			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of flash and fire point using Pensky-Marten's apparatus		2/1/2019	2/1/19	1	1/1/2019	1/1/19	1	GVB
2	Determination of flash and fire point using Abel's- apparatus		9/1/2019	9/1/19	1	8/1/2019	12/2/19	1	GVB
3	Determination of viscosity using Redwood viscometer		16/1/2019	27/2/19	1	22/1/2019	22/1/19	1	GVB
4	Determination of acid value		23/1/2019	6/3/19	1	29/1/2019	12/3/19	1	
5	Determination of saponification value of oil		6/2/2019	6/2/19	1	5/2/2019	5/2/19	1	GVB
6	Determination of volatile matter of coal sample		13/2/2019	13/2/19	1	12/2/2019	12/2/19	1	
7	Determination of ash of coal sample		27/2/2019	27/2/19	1	26/2/2019	5/3/19	1	
8	Determination of moisture of coal sample		12/3/2019	13/3/19	1	13/3/2019	12/3/19	1	

Faculty in charge

GVB

HoD

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Lab Practicals Plan Sem. II

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR — Date: 29 /12 /2018

Faculty Name: Dr. Asha H. Gedam — Subject: Materials Chem. — for — Dept: Allied sci. — Section: B

Pi	Name of experiment		Batch B1			Batch B2			
print	print	possible Variations used	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
			print	fill	fill	print	fill	fill	fill
1	Determination of flash and fire point using Pensky-Marten's apparatus		7/1/2019	31/1/19	1	3/1/2019	31/1/19	1	GAS
2	Determination of flash and fire point using Abel's- apparatus		21/1/2019	7/1/19	1	10/1/2019	10/1/19	1	GAS
3	Determination of viscosity using Redwood viscometer		28/1/2019	14/1/19	1	17/1/2019	14/2/19	1	GAS
4	Determination of acid value		4/2/2019	11/3/19	1	24/1/2019	14/3/19	1	
5	Determination of saponification value of oil		11/2/2019	11/2/19	1	7/2/2019	7/2/19	1	GAS
6	Determination of volatile matter of coal sample		18/2/2019	11/2/19	1	21/2/2019	7/3/19	1	
7	Determination of ash of coal sample		25/2/2019	4/3/19	1	7/3/2019	7/3/19	1	
8	Determination of moisture of coal sample		18/3/2019	18/3/19	1	14/3/2019	14/3/19	1	

Subject teacher

H.O.D. GAS

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CCOEW/AS / 18-19

Date: 29/ 12 / 2018

LESSON & TEACHING PLAN for Materials Chemistry

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam | **Year : 2018-19** | **Sem:- II**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	1-5 Jan	3		Introduction : higher and lower calorific value, Determination of calorific value by Bomb and Boys gas calorimeter.	Lab. Demonstration	Jain & Jain 55-60, Fifteenth edition (2013)		5/1/19		
2	7-12 Jan.	3		Numerical based on calorific value determination, Numericals on Dulongs formula, composition , properties and limitations of biodiesel	Solving the numericals by students	Jain 61-68, Fifteenth edition (2013), Dara 150, First edition (2010)		11/1/19	9/1/19	
3	14-19 Jan.	3		Composition, properties, advantages, limitations of LPG, CNG., Non conventional energy resources and their applications, advantages and disadvantages, significance of proximate and ultimate analysis.	Lab experiments	Jain & Jain , 83-91, Fifteenth edition (2013)		19/1/19 18/1/19		
4	21-26 Jan.	3		Rocket propellants: Principle and classification of propellants, Liquid fuels, fractional distillation of crude petroleum oil,	Filling of data by students using tabular form	Jain and Jain 72- 82 , Fifteenth edition (2013)		25/1/19		
5	28-31 Jan									
6	1-2 Feb									

Ananya

Faculty in Charge

HOD

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Lect. No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book, Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	4-9 Feb.	3		Use of gasoline and diesel in internal combustion engine, knocking of fuel, Octane number and cetane number	QA, for differentiation by students	Dara 126-127, First edition (2010) , Jain & Jain 99-111, Fifteenth edition (2013)		6/2/19		
				Doping agents and fischer tropsch process.,	https://www.youtube.com/watch?v=-I_UtU7zYs0			7/2/19		
				Numericals based on combustion calculations	Solving the numericals by students			7/2/19	7/2/19	
8	11-16 Feb.	4		Numericals based on combustion calculations	Solving the numericals by students			7/2/19		
				Cracking of petroleum-principle, types, catalyst used,advantages,	https://www.youtube.com/watch?v=HP6DPc2RXKQ	S. S. Dara, 116-121, First edition (2010) Jain & Jain, 427-430, Fifteenth edition (2013)		13/2/19 12/2/19		
				Lubrication introduction and types, mechanisms- hydrodynamic,	https://www.youtube.com/watch?v=WeH3CUvdt_s			15/2/19 14/2/19		
				Thin film and extreme pressure lubrication	https://www.youtube.com/watch?v=et0NWu1Hurk			15/2/19 15/2/19		
9	18-23 Feb.			Sessional I						
10	25-28 Feb.	3		Biodegradable lubricants- Properties, applications, advantages and limitations, classification of lubricants, solid, semisolid and liquid lubricants.	Quiz	Jain, 430-434 Fifteenth edition (2013) and S.S. Dara First edition (2010)		27/2/19		
11	1-2 Mar.	1		Synthetic lubricants- Silicones, Lubricating emulsions, Properties of greases, drop point and consistency test	Lab performance	Jain & Jain, 434-444, Fifteenth edition (2013)		2/3/19 2/3/19	2/3/19	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book, Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	4-9 Mar.	3		Properties of liquid lubricants: Acid value, saponification number,	Lab. Experiments	Jain & Jain, 438-446, Fifteenth edition (2013)		4/3/19 5/3/19		GAJ
				flash and fire point, viscosity and viscosity index, Aniline point, Cloud and pour point,	Lab. Experiments			6/3/19 7/3/19		GAJ
				Criteria for selection of lubricants, Biodegradable polymers	Que-Ans			8/3/19 8/3/19		GAJ
13	11-16 Mar.	4		Properties and applications- polylactic acid (PLA) and polycaprolactone(PCL), Conducting polymers- polyaniline, polypyrolle, composite materials, particle reinforced and fibre reinforced, LCP		Jain & Jain, 173-181, Fifteenth edition (2013)	PPT	11, 13, 15, 16/3/19 12, 14, 15, 16/3/19	16/3/19	GAJ
14	18-23 Mar.	3		Nanomaterials- definition nano scale, carbon nano tubes, types and difference between single wall NT, Multi wall NT, application of nanomaterials in medicine, environment and electronics		P. Adkine 131-136 First edition-2013	PPT	18/3/19 20/3/19 19/3/19 22/3/19		GAJ
15	25-26 Mar	1		Nanomaterials- definition nano scale, carbon nano tubes, types and difference between single wall NT, Multi wall NT, application of nanomaterials in medicine, environment and electronics			PPT	23/3/19 23/3/19		GAJ
16	27-30 Mar.			Internal practical examination						

Faculty in Charge

GAJ

HOD

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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Lab Practicals Plan (Revision 1) — Year 2018-19

Faculty Name: Prof. Yogesh Dandekar — Subject: Workshop Practice BE First Year II nd Sem — Department: AS

No of Batches: #4 — Section: B1

Sr. No	Name of Experiment	Batch # 1 & 2 Planned Date	Perform Date	No. Journals received	No. of Viva done	Name of Experiment	Batch # 3 & 4 Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark
1	Fitting	(Batch B1-2) TUE 01/01/2019 08/01/2019 15/01/2019 22/01/2019 05/02/2019	01/1/19	08		Smithy	(Batch B10-11) TUE 01/01/2019 08/01/2019 15/01/2019 22/01/2019 05/02/2019	01/1/19	08		
2	Carpentry	(Batch B3-4) TUE 01/01/2019 08/01/2019 15/01/2019 22/01/2019 05/02/2019	01/1/19	09		Welding	(Batch B12-13) TUE 01/01/2019 08/01/2019 15/01/2019 22/01/2019 05/02/2019	01/1/19	09		
3	Carpentry	(Batch B1-4) TUE 12/02/2019 19/02/2019 26/02/2019 05/03/2019 12/03/2019	12/2/19	09		Welding	(Batch B10-13) TUE 12/02/2019 19/02/2019 26/02/2019 05/03/2019 12/03/2019				
4	Fitting	(Batch B3-4) TUE 12/02/2019 19/02/2019 26/02/2019 05/03/2019 12/03/2019	12/2/19	09		Smithy	(Batch B12-13) TUE 12/02/2019 19/02/2019 26/02/2019 05/03/2019 12/03/2019	12/2/19	09		

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Lab Practicals Plan (Revision 1)

Year 2018-19

Faculty Name: Prof. Yogesh Dandekar | Subject: Workshop Practice BE First Year II nd Sem | Department: AS

No of Batches: #4 | Section: B2

Sr. No	Name of Experiment	Batch # 1 & 2 Planned Date	Perform Date	No. Journals received	No. of Viva done	Name of Experiment	Batch # 3 & 4 Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark
		(Batch B19-22)WED					(Batch B27-30)WED				
		02/01/2019	02/1/19	09			02/01/2019	02/1/19	09		
		09/01/2019					09/01/2019				
1	Smithy	16/01/2019				Fitting	16/01/2019				
		23/01/2019					23/01/2019				
		06/02/2019	06/2/19	09			06/02/2019				
		(Batch B23-26)WED					(Batch B31-35)WED				
		02/01/2019	02/1/19	09			02/01/2019	02/1/19	09		
		09/01/2019					09/01/2019				
2	Welding	16/01/2019				Carpentry	16/01/2019				
		23/01/2019					23/01/2019				
		06/02/2019	6/2/19	09			06/02/2019				
		(Batch B19-22)WED					(Batch B27-30)WED				
		13/02/2019	13/2/19	09			13/02/2019	13/2/19	09		
		20/02/2019					20/02/2019	-			
3	Welding	27/02/2019				Carpentry	27/02/2019				
		06/03/2019	6/3/19				06/03/2019	06/3/19			
		13/03/2019					13/03/2019	13/3/19			
		(Batch B23-26)WED					(Batch B31-35)WED				
		13/02/2019					13/02/2019	13/2/19	09		
		20/02/2019					20/02/2019				
4	Smithy	27/02/2019				Fitting	27/02/2019				
		06/03/2019	6/3/19				06/03/2019	06/3/19			
		13/03/2019	13/3/19				13/03/2019				

Lab-Incharge(Mech.Engg.)

HOD

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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Year 2018-19

Lab Practicals Plan (Revision 1)

Faculty Name: Prof. Yogesh Dandekar | Subject: Workshop Practice BE First Year II nd Sem | Department: AS

No of Batches: #4 | Section: A1

Sr. No	Name of Experiment	Batch # 1 & 2 Planned Date	Perform Date	No. Journals received	No. of Viva done	Name of Experiment	Batch # 3 & 4 Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark
		(Batch (A1)1-4)MON					(Batch (A1)10-14)MON				
		31/12/2018	—				31/12/2018	—			
		07/01/2019	07/1/19	09			07/01/2019	07/1/19	09		
1	Fitting	14/01/2019				Smithy	14/01/2019	14/1/19	09		
		21/01/2019					21/01/2019				
		04/02/2019					04/02/2019				
		(Batch (A1)5-9)MON					(Batch (A1)15-18)MON				
		31/12/2018	—				31/12/2018	—			
		07/01/2019	07/1/19	09			07/01/2019	07/1/19	09		
2	Carpentry	14/01/2019				Welding	14/01/2019				
		21/01/2019					21/01/2019	-			
		04/02/2019					04/02/2019				
		(Batch (A1)1-4)MON					(Batch (A1)10-14)MON				
		11/02/2019					11/02/2019	11/2/19	09		
		18/02/2019					18/02/2019				
3	Carpentry	25/02/2019				Welding	25/02/2019				
		11/03/2019					11/03/2019				
		18/03/2019					18/03/2019				
		(Batch (A1)5-9)MON					(Batch (A1)15-18)MON				
		11/02/2019					11/02/2019	11/2/19	09		
		18/02/2019					18/02/2019				
4	Fitting	25/02/2019				Smithy	25/02/2019				
		11/03/2019					11/03/2019				
		18/03/2019					18/03/2019				

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Lab Practicals Plan (Revision 1)

Year 2018-19

Faculty Name: Prof. Yogesh Dandekar | Subject: Workshop Practice BE First Year II nd Sem | Department: AS | No of Batches: #4 | Section: A2

Sr. No	Name of Experiment	Batch # 1 & 2 Planned Date	Perform Date	No. Journals received	No. of Viva done	Name of Experiment	Batch # 3 & 4 Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark
		(Batch A19-23)FRI					(Batch A29-32)FRI				
		04/01/2019	04/1/19	09			04/01/2019	04/1/19	09		GVS
		11/01/2019	11/1/19	09			11/01/2019				
1	Smithy	18/01/2019	18/1/19	09		Fitting	18/01/2019				
		25/01/2019					25/01/2019				
		08/02/2019	8/2/19	09			08/02/2019				
		(Batch A24-28)FRI					(Batch A33-37) FRI				
		04/01/2019	04/1/19	09			04/01/2019	04/1/19	09		GVS
		11/01/2019					11/01/2019				
2	Welding	18/01/2019				Carpentry	18/01/2019	18/1/19	09		GVS
		25/01/2019					25/01/2019				
		08/02/2019					08/02/2019	8/2/19	09		GVS
		(Batch A1-10)FRI					(Batch A21-30)FRI				
		15/02/2019					15/02/2019				
		22/02/2019	22/2/19				22/02/2019	22/2/19			
3	Welding	01/03/2019				Carpentry	01/03/2019				
		08/03/2019					08/03/2019				
		15/03/2019					15/03/2019				
		(Batch A11-20)FRI					(Batch A31-40) FRI				
		15/02/2019					15/02/2019				
		22/02/2019	22/2/19				22/02/2019	22/2/19			
4	Smithy	01/03/2019				Fitting	01/03/2019				
		08/03/2019					08/03/2019				
		15/03/2019					15/03/2019				

Lab-Incharge(Mech.Engg.)

HOD GVS

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Date: / / 2018

LESSON & TEACHING PLAN

Section - A

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Priyadarshini Ramteke | **Subject:** | **SEM** (2018-19) | **Sem:- EVEN**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	31 Dec - 5 Jan	2	I	Concept of Culture and Civilization				1/1/19 3/1/19		GAS
2	7 Jan - 12 Jan	2		Applied Humanities and Social Engineering, Right to Information(RTI), Public Interest Litigation (PIL), Intellectual Property Rights(IPR) & Patents, Lokpal and Lokayukta .	Groupwise Seminar			15/3/19 14/3/19 22/3/19		GAS
3	14 Jan - 19 Jan	2	II	Meaning and Scope of Industrial Psychology and Industrial Sociology, Fatigue, Selection and Training of Workers	1. Open Book Test on these topics by giving some general questions 2. CASE STUDY DISCUSSION			4/1/19 11/1/19 17/1/19		GAS
4	21 Jan - 26 Jan	2		Motives for Work in Industry, Transactional Analysis.				24/1/19 25/1/19		GAS
5	28 Jan - 2 Feb	ANANNYA 2019								

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CCOEW/CE / 18-19

Date: / / 2018

Section - B

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Priyadarshini Ramteke | **Subject:** | **SEM** (2018-19) | **Sem:- EVEN**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	31 Dec - 5 Jan	2	I	Concept of Culture and Civilization				31/12/18 1/1/19		GVJ
2	7 Jan - 12 Jan	2		Applied Humanities and Social Engineering, Right to Information(RTI), Public Interest Litigation (PIL), Intellectual Property Rights(IPR) & Patents, Lokpal and Lokayukta .	Groupwise Seminar			18/3/19 19/3/19		GVJ
3	14 Jan - 19 Jan	2	II	Meaning and Scope of Industrial Psychology and Industrial Sociology, Fatigue, Selection and Training of Workers	1. Open Book Test on these topics by giving some general questions 2. CASE STUDY DISCUSSION			7/1/19 8/1/19 8/1/19		GVJ
4	21 Jan - 26 Jan	2		Motives for Work in Industry, Transactional Analysis.				14/1/19 21/1/19		GVJ
5	28 Jan - 2 Feb	ANANNYA 2019								

Ramteke

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6	4 Feb - 9 Feb	2	III	Sustainable development, Professional Ethics	Seminar			18/3/19		GAJ
7	11 Feb - 16 Feb	2		Organizational Behavioral Dynamics: Leadership in Industry				27/2/19 5/3/19		GAJ
8	18 Feb - 23 Feb	SESSIONAL - I								
9	25 Feb - 2 Mar	2	IV	Indian Constitution and Federal System	Quiz on the topics			11/2/19 12/2/19		GAJ
10	4 Mar - 9 Mar	2		Fundamental Rights and Directive Principles.				12/2/19 2/3/19		GAJ
11	11 Mar - 16 Mar	2		Role of Bureaucracy in Modern Society, Industrial Democracy				4/3/19 5/3/19		GAJ
12	18 Mar - 23 Mar	2	V	Works Organization: Power, Authority and Status System; Formal and Informal Organization				11/3/19 12/3/19		GAJ
13	25 Mar - 30 Mar	2		Industrialization and Urbanization: Study of Slums				14/3/19		GAJ
17	1 Apr - 8 Apr	SESSIONAL - II								

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LESSON & TEACHING PLAN FOR BASICS of CIVIL ENGINEERING
Department of Allied Science

Faculty Name: Prof. Rashmi Bharatey | **Subject: Engineering Mechanics (BESII-4T)** | **SEM: SECOND (2018-2019)** | **Sem: EVEN**

Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date A & B	Assignment/ Tutorial Plan	HOD's Sign
01	29-12-18 to 30-12-18	1	I	**Unit - I :** **Important Vector Quantities:** Position-vector		Vector mechanics for engineers by Beer Johnston edition 9 Chapter 2 ; pp 17-20	PPT Video Lect	29|12|19 – A&B		GVB
02	31-12-18 to 6-1-19	5	I	moment of a force about a point about an axis, couples, couple moment as a free vector.	Demo of Moment concept using simple things	Engineering mechanics statics and dynamics by Singer edition 3 chapter 2 pp 16-74	PPT Video Lect	31|12|19 2|1|19 A & B		
03	7-1-19 to 13-1-19	4	II	**Equivalent force systems:** Resultant of a 2 dimensional distributed loads	Group discussion for different force system and their resultants in our daily life.		PPT Video Lect	7|1|19-A 10|1|19-B	Assignment 1	GVB
04	14-1-19 to 20-1-19	5	I I	**UNIT - II :** **Equations of Equilibrium:** Free body diagrams, Equations of equilibrium of coplanar concurrent and Non-concurrent systems.		Engineering mechanics statics and dynamics by Singer edition 3 chapter 3 pp 91-118	PPT Video Lect	23|1|19-A 19|1|19-B 31|1|19-A 6|2|19-B		GVB

1

GVB

JR
Prof. Rashmi Bharatey

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Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/ Tutorial Plan	HOD's Sign
05	21-1-19 to 27-1-19	4		Analysis of simple pin jointed frames by method of joints method of sections.	Observation of truss in workshop	Chapter 4 Pp – 137-184	PPT Video Lect	12/2/19-A 17/2/19-B		GVB
	18-2-19 To 22-2-19			**Cultural week**						
06	4-2-19 to 10-2-19	5		Friction forces: Law of Coulomb friction, problems involving dry friction, simple applications like wedges and band brakes.	Simple activities using sandpaper wood etc. to understand friction	Chapter 5 Pp – 195-238	PPT Video Lect	15/2/19-A 16/2/19-B	Assignment 2	GVB
07	11-2-19 to 17-2-19	4		Resultant of three-dimensional general force system Wrench. General spatial force system.		Engineering mechanics by Timoshenko edition 4 chapt 2-5 pp 16-357	PPT Video Lect	28/2/19-A 6/2/19-B		GVB
08	25-2-19 to 3-3-19	5		**Unit - III : Introduction of Virtual work theorem:** Principle of Virtual work applied to equilibrium of Mechanisms, simple beam, Pin jointed frames.		Vector mechanics for engineers by Beer Johnston edition 9 Chapter 10 ; pp 556-564	PPT Video Lect	12/3/19-A 26/2/19-B		GVB
09	4-3-19 to 10-3-19	5		**Unit -IV:** D'Alembert,,s Principle, work Energy method, (Expressions based on center of mass).	Activity using ball and container to understand impact	Engineering mechanics statics and dynamics by Singer edition 3 chapter 14,15 pp 689-814	PPT Video Lect	19/3/19-A 18/3/19-B	Assignment 3	GVB
10	11-3-19 to 17-3-19	4		Elastic impact of two bodies, Direct central impact				23/3/19-A 22/3/19-B		GVB

GVB

Prof. RASHMI BHARATEY

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Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/Tutorial Plan	HOD's Sign
11	18-3-19 to 24-3-19	4		**Centriods and Moments of Inertia:** Second Moment and products of inertia of plane areas, Moment of inertia of masses	Understanding concepts using wheel,ball and other simple things	Engineering mechanics statics and dynamics by Singer edition 3 chapter 6,7 pp 241-337	PPT Video	5/3/19 A 6/3/19 - B	Assignment 4	GVB
12	25-3-19 to 31-4-19	5		Transfer theorems for moment of inertia and Product of inertia, Polar moment of inertia, Principal axes, Mohr"s circle of inertia			PPT Video	10/3/19 A 13/3/19 B		GVB

GVB

Date: 4/1/20189

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Date: 30 / 7 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sneha Uttarwar					Subject: Applied Maths I		SEM I Allied Science. (2018-19)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	30 July-04 Aug	4		MATRICES Inverse of Matrix by adjoint method Inverse by Partitioning method	Solving example	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.1 to 2.17	PPT/video to solve inverse by adjoint method	02/08/18		GVS
2	06 Aug-11 Aug	6		Rank of Matrix Solution of system of linear equations Consistency of linear system of equations Tutorial 1	Solving example	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.18 to 2.37	PPT/video for consistency of linear equation	06/08/18		GVS
3	13 Aug-18 Aug	5		COMPLEX NUMBER Cartesian and polar form of compex numbers Demoiveres theorem Hyperbolic function and their inverse Logarithm of complex quantities Tutorial 2	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 315 to 354/362 to 392	PPT/video for defination of complex number,modulus,argument	13/08/18		GVS
4	20 Aug-25 Aug	5	II	DIFFERENTIAL CALCULUS Defination and Notation, The nth derivative of standered function Partial Fraction Method of finding nth derivativ of rational function Leibneitz Rule (nth detivative)	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 1 to 26	PPT/video for solved example of leibneitz rule GVS	23/08/18		GVS

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
5	27 Aug-01 Sept	6	III	Taylors Theorem , Maclaurins Theorem Indeterminate Forms Radius of curvature of cartesion curve Center of Curvature Tutorial 3	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 27 to 68	PPT/video for solved example of indeterminent	17/09/18		
6	03 Sept-08 Sept		III	Sessional I						
7	10 Sept-15 Sept	5	IV	PARTIAL DIFFERENTATION Function of several variable, first and higher order derivative Euler's Theorem chain rule and total diferential co-efficient	Solving example	D.T. Deshmukh Pg. No - 224 to 248	PPT / video for solved example of chain rule	21/09/18		
9	17 Sept-22 Sept	5		Jacobians Taylors and Maclaurins series of two variable, Maxima and Minima of function of two Variable Lagranges method of undetermined multipliers Tutorial 4	solving example	D-T. Deshmukh page No - 281 - 325	PPT used for concept of maxima minima	24/09/18		
8	24 Sept-29 Sept	6	IV	DIFFERENTIAL EQUATION- I First order first degree differential eqation linear Differential eqation Reducible to linear	Solving Example	D.T. Deshmukh page. No - 570 to 592	PPPT used for examples	29/09/18		
10	01 Oct-06 Oct	5	V	Exact Differential eqation Equation Solvable for x,y,p Tutorial 5	11	D.T. Deshmukh page-No - 593 to 612	11	03/10		

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin Gorantiwar					Subject: Applied Maths I		SEM I Allied Science. (2018-19)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	30 July-04 Aug	4	III	MATRICES Inverse of Matrix by adjoint method Inverse by Partitioning method	Solving example by dividing group	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.1 to 2.17	PPT/video to solve inverse by adjoint method	03/08		GVS
2	06 Aug-11 Aug	6	III	Rank of Matrix Solution of system of linear equations Consistency of linear system of equations Tutorial 1	Solving example	Engineering Mathematics Shobhane & Tembhekar Pg. no. 2.18 to 2.37	PPT/video for consistency of linear equation	07/08	07/08	GVS
3	13 Aug-18 Aug	5	VI	COMPLEX NUMBER Cartesian and polar form of compex numbers Demoiveres theorem Hyperbolic function and their inverse Logarithm of complex quantities Tutorial 2	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 315 to 354/362 to 392	PPT/video for defination of complex number,modulus,argument	16/08	16/08	GVS
4	20 Aug-25 Aug	5	I	DIFFERENTIAL CALCULUS Defination and Notation, The nth derivative of standered function Partial Fraction Method of finding nth derivativ of rational function Leibneitz Rule (nth detivative)	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 1 to 26	PPT/video for solved example of leibneitz rule	23/08		GVS

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	27 Aug-01 Sept	6	I	Taylors Theorem , Maclaurins Theorem Indeterminate Forms Radius of curvature of cartesion curve Center of Curvature Tutorial 3	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 27 to 68	PPT/video for solved example of indeterminent	12/09	09/10	GA
6	03 Sept-08 Sept			Sessional I						
7	10 Sept-15 Sept	5	III	PARTIAL DIFFERENTATION Function of several variable, first and higher order derivative Euler's Theorem chain rule and total diferential co-efficient	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 223 to 260 (Vol2)	PPT	21/09		GA
9	17 Sept-22 Sept	5	III	Jacobians Taylors and Maclaurins series of two variable, Maxima and Minima of function of two Variable Lagranges method of undetermined multipliers Tutorial 4	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 273 to 328 (Vol2)	PPT	03/10		GA
8	24 Sept-29 Sept	6	IV	DIFFERENTIAL EQUATION- I First order first degree differential eqation linear Differential eqation Reducible to linear	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 555 to 592 (Vol2)	PPT/video for solved example of first order	07/10		GA
10	01 Oct-06 Oct	5	IV	Exact Differential eqation Equation Solvable for x,y,p Tutorial 5	Solving example	Pg. no. 593 to 621 (Vol2)	PPT/video for solved example of exact diff. equation	10/10		GA

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	08 Oct-13 Oct	5	V	DIFFERENTIAL EQUATION- II Higher order differential equation with constant coefficient up to method of variation of parameters.	Solving example	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 671 to 721(Vol2)	PPT/video for solved example of higher order diff. equation	20/10		GVS
12	15 Oct-20 Oct	5	V	Cauchys and Legenders homogeneous differantial eqation	Solving example	Pg. no. 721 to 731 (Vol2)		22/10		GVS
13	22 Oct-27 Oct	6	V	Differential equation of the special type Application Tutorial 6	Solving example by dividing group	Text book of Engineering Mathematics D.T.Deshmukh Pg. no. 781 to 791 (Vol2)	PPT	02/11		GVS
14	29 Oct-03 Nov	6		REVISION						
14	12 Oct-17 Nov	Sessional II								

12

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Lab Practicals Plan

CCOEW/ Department of Allied Science

Date: 1 / 8 / 2018

Dr.S.Bompilwar	Engg. Physics	SEM I		Department: AS				Section:B
	Batch B 1			Batch B 2				
Pi	Name of experiment	Planned Date	Perform Date	No. Journals received	No. of Viva done	Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark
print	print	print	fill	fill	fill	print	fill	fill	fill	fill
1	V-I characteristics of Semiconductor diodes	10/8/2018	10|8	✓	✓	1/8/2018	1|8	✓	✓	GVS
2	Input, output and current transfer characteristics ofNPN transistor in CE mode	17/8/2018	17|08	✓	✓	8/8/2018	8|8	✓	✓	GVS
3	V-I characteristics of Zener diodes.	24/8/2018	24|8	✓	✓	29/8/2018	28|8	✓	✓	GVS
4	Input, output and current transfer characteristics of NPN transistor in CB	14/9/2018	14|9	✓	✓	12/9/2018	12|9	✓	✓	GVS
5	Study of Diode as a rectifier	21/9/2018	19|10	✓	✓	19/9/2018	24|10	✓	✓	GVS
6	Study of LED	12/10/2018	21|9	✓	✓	10/10/2018	19|9|18	✓	✓	GVS
7	Determination of band gap Energy of Semiconductor	19/10/2017	28|9	✓	✓	17/10/2017	3|10|18	✓	✓	GVS

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CCOEW/AS / 18-19

Date: 31/ 7 / 2018

LESSON & TEACHING PLAN for Engineering Physics

Department of Allied Science

Faculty Name: Prof. Dr. Shubhangi Bompilwar					Sub: Engineering Physics		Sec: B	Year : 2018-19		Sem:- I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	1-4/8/18	3	III	Introduction of Crystal Structure, meaning of lattice & basis,	PPT	Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 468-497 S. Chand publication, 2010.	projector	1|8|18		GVS
				Unit cell: primitive and non primitive unit cell; cell characteristics of SC			charts	2|8|18		
				BCC and FCC structures				3|8|18		
2	6-11/8/18	3		Miller Indices	Drawing Miller planes on board			8|8|18		GVS
				Inter-planar distance between adjacent planes, Relation between d and (hkl)				10|8|18	Assign 1 11|8|18	
				Bragg's Law				10|8|18		
3	13-18/8/18	3		Numericals	Solving numericals on board by students	Numericals: M N Avadhanulu, 345-380	chalk-board	11|8|18	11|8|18 T-1	
				Numericals				11|8|18		GVS
				TEST				17|8|18		
4	20-25/8/18	2	I	Introduction of Quantum mechanism, comparison with Newtonian mechanics,Plank"s Hypothesis,Properties of Photons.		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 305-360		16|8|18		
				Compton effect	PPT		projector	16|8|18		GVS
5	27-31/8/18	3		Wave particle Duality, De-Broglie hypothesis, its applications				20|8|18		
				Matter wave, Bohr's Quantization condition.				23|8|18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Sub Topic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
				Davisson - Germer Experiment	PPT		projector	24|8|18		
6	1-7/9/18			Sessional I						
7	10-15/9/18	2	I	Numericals		Numericals: M N Avadhanulu, 252-324		27|8|18	~~T-2~~	
				Numericals				29|8,30	T-2	GVS
9				TEST on unit I				3| |8		
			II	Concept of Group and phase velocities, their relation		Text Book of Engineering Physics: M N Avadhanulu, P K Kshirasagar, 356-378 Edition-2010		14|9|18		
	17-22/9/18	4		Wave packet, Heisenberg"s uncertainty principle, Thought Expt				17|9		
				Wave function and its probability interpretation, Schrödinger"s Time	seminar		chalk- board	18, 19 |9		
10	24-29/9/18			Solution of Schrödinger"s equation for one dimensional infinite potential			— " —	21|9|18	AS-2	GVS
		3		Barrier Tunneling., Numericals	video			22|9|18		
				Numericals		Numericals: M N Avadhanulu, 252-324		26|9	T3	
11	1-5/10/18			Numericals				27|9		
		3		Revision				—		
				Test				—		GVS
12	8-12/9/18		IV	Introduction to semiconductor physics,Qualitative idea on the		Text Book of		28|9		
		3		band diagramof Li, SI, Ge				29|9		
				Intrinsic and Extrinsic semiconductors				3|10		
13	15-19/9/18			Fermi-Dirac distribution function				3|10		
		3		Intrinsic semiconductors , derivation of ni, EF				4|10		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
				Extrinsic semiconductor band dia and conductivity		Engineering Physics: M N Avadhanulu, P K Kshirasagar, 356-378		5/10/18 6/10		
14				Hall effect. Hall coefficient & Hall Angle.				12/10	T4 12/10/18	
				Numericals				12/13/10		
	22-26/10/18	4		PN- junction diode; eq. of potential barrier, Vo				13/10		
				Band diagram of p-n diode at equilibrium. and biased				15-17/10		12/12/17
15	29/9-2/10/18			Characteristics of tunnel diode, zener diode, LED				19/10		
	29/10/18 to	3		Basics of Transistor, band dia. of pnp and npn				20-26/10		
	2/11/18			Numericals		Numericals: M N Avadhanulu, 381-		26/10		
16		Sessional II								

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Maharshi Karve Stree Shikshan Sanstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Lab Practicals Plan Sem. I

Date: 31 / 7 / 2018

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name:Dr. Sanjivani Shastri			Subject:Engineering Physics				Department: Allied science		Section: A
			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	V-I characteristics of Semiconductor diodes		6/8/2018	10\8\18		31/7/2018	1\8\18		GVS
2	Input, output and current transfer characteristics ofNPN transistor in CE mode	constant value of voltage and current is different	20/8/2018	17\8\18		14/8/2018	3\8\18		GVS
3	Input, output and current transfer characteristics of NPN transistor in CB	constant value of voltage and current is different	10/09/18	13\8\18		11/9/2018	14/8/19		GVS
4	V-I characteristics of Zener diodes.	different types of diodes are given to diff students	10/09/18	20\8\18		11/9/2018	28\8\18		GVS
5	Study of Diode as a rectifier.		22/10/2018	15\10\18		23/10/2018	9\10\18		GVS
6	Study of LED.	Different colors of LED are given to diff studetns	8/10/18	17\9\18		9/10/2018	11\9\18		GVS
7	Determination of band gap		24/9/2018	17\9\18		25/9/2018	18\9\18		GVS

GVS
Faculty in charge

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CCOEW/AS / 18-19

Date: 31 / 07 / 2018

LESSON & TEACHING PLAN for Engineering Physics

Department of Allied Science

Faculty Name: Prof. Dr.Sanjivani shastri								Year : 2018-19		Sem:I
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	31July-4Aug	2	III	Crystal structure, Meaning of lattice and basis, Unit cell: primitive and non primitive unit cellCubic crystal structure: Body and Face centered cubic structures, SC, BCC and FCC unit cells.		A textbook of Engineering Physics, By Avdhanulu,chpt no 16(pages469-483,491,492,494-500)Problems in Physics pages345-380)By Avdhanulu,2010Engineering Phy & Che by Subhash chander(313-329)Edition 2010	ppt.1	3|7|18 1|8|18 2|8|18		GAS
2	6Aug-11Aug	3	III	Unit cell characteristics: Effective number of atoms per unit cell, atomic radius, nearest neighbor distance,coordination number, atomic packing fraction, void space, density; Crystal planes and Miller indicesInter-planar distance between adjacent planes, Bragg"s law of X-ray diffraction,	Hand made model showing various planes	A textbook of Engineering Physics, By Avdhanulu,chpt no 16(pages469-483,491,492,494-500)Edition 2010	video 1	3|8|18 4|8|18	11|8|18 Tutorial1	GAS

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HOD GAS

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	13Aug-18Aug	4	III	Tetrahedral and octahedral voids.Numericals	Hand made model showing various planes,solving numericals in group	Problems in Physics pages345-380)By Avdhanulu,2010	ppt.1	7|8|18 8|8|18 10|8|18 11|8|18.		GVS
4	20Aug-25Aug	3	I	Plank"s Hypothesis, Properties of Photons ,Compton Effect, Wave – particle duality,	watching video in class	Textbook of engineering Physics by Avdhanulu Pages(322-328,356-360)Reprint 2010	video 2	14|8|18 16|8|18 18|8|18		GVS
5	27Aug-1 sept	4	I	De-Broglie Hypothesis, Davisson - Germer Experiment;Bohr"s Quantization condition,Numericals		A text book of Engineering Physics by Avdhanulu pages(361-379),Eng Phy & Che by Subhash Chander pages(229-243) Reprint 2010	ppt.2	21|8|18 23|8|18 29|8|18 30|8|18		GVS
6	1sept-8 sept	Sessional I								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	10sept-15Sept	3	II	Concept of Group and phase velocities, Wave packet,Thought experiment on single slit electron diffraction,Wave function and its probability interpretation,		A text book of Engineering Physics by Avdhanulu pages(361-379),Eng Phy & Che by Subhash Chander pages(229-243) Reprint 2010		11-9-18 12-9-18 14/9/18	Assignment No 2 Tutorial 2	GVS
8	17sept-22Sept	3	II	Wave function and its probability interpretation,		A text book of Engineering Physics by Avdhanulu pages(361-379),Eng Phy & Che by Subhash Chander pages(229-243) Reprint 2010		18/9/18 18/9/18		GVS
9	24sept-29Sept	4	II	Solution of Schrödinger"s equation for one dimensional infinite potential well,Barrier Tunneling,Numericals				19/9/18 20/9/18 20/9/18 21/9/18		GVS GVS
10	1-Oct-6 Oct	3	IV	Band-theory based classification of solids into insulators, semiconductors and conductors,Fermi-Dirac distribution Function, Intrinsic semiconductors: Germanium and siliconFermi energy,Typical energy band diagram of an intrinsic semi-conductor, Doping and Extrinsic semiconductors,		Engineering Physics By Avdhanulu,pages(55-129),Problems in Physics pages(381-430),Elec & instrumentation by KC Jain pages (1-24)Problrms in Physics by Avdhanulu pages(315-324)Reprint 2010		22/9/18		GVS

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	8 Oct-13Oct	3		PN- junction diode; Unbiased, Forward baised & Reverse biased mode with Energy band diagram reference,Diode rectifier equation, s		Engineering Physics By Avdhanulu,pages(55-129),Problems in Physics pages(381-430),Elec & instrumentation by KC Jain pages (1-24)Problrms in Physics by Avdhanulu pages(315-324)Reprint 2010		23/10/18		
12	15Oct-20Oct	3	IV	Bipolar Transistor action,NumericalsHall effect, Hall coefficient & Hall Angle,Numericals LED,V-I		Problrms in Physics by Avdhanulu pages(315-324)Repint 2010		30/10/18		
13	22Oct-27Oct	3	IV	Numericals		Problrms in Physics by Avdhanulu pages(315-324)Repint 2010		31/11/18		
14	29Oct-31Oct	3	IV	Numericals		Problrms in Physics by Avdhanulu pages(315-324)Repint 2010		1/11/18		

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HOD

Lab Practicals Plan Sem. II

Date: / /

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Asha H. Gedam		Subject: Engg. Chemistry		for	Department: Allied science	Section: A

			Batch A 1			Batch A 2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	~~Planned~~ Performed Date	~~Perform~~ Planned Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of temporary & permanent hardness of water by complexometry		8/8/2018	8/8/18	1	7/8/18	7/8/2018	1	GVA
2	Estimation of nickel ion by complexometry		29/8/2018	29/8/18	1	14/8/18	14/8/2018	1	GVA
3	Estimation of free chlorine by iodometry		12/9/2018	13/9/18	1	21/8/18	21/8/2018	1	GVA
4	Determination of type and extent of alkalinity by warder's method		26/9/2018	19/9/18	1	28/8/18	28/8/2018	1	GVA
5	Estimation of dissoved oxygen		10/10/2018	10/10/18	1	11/9/18	11/9/2018	1	GVA
6	Determination of copper ions by iodometry		17/10/2018	17/10/18	1	18/9/18	25/9/2018	1	GVA
7	Determination of hardness due to calcium and magnesium separately		24/10/2018	24/10/18	1	9/10/18	9/10/2018	1	GVA
8	Determination of pH by pH meter		31/10/2018	31/10/18	1	16/10/18	16/10/2018	1	GVA

Faculty in charge

Page 1

GVA
HoD

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Lab Practicals Plan Sem. II

Date: / /

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Asha H. Gedam | **Subject: Engg. Chem.** | **for** Department: Allied science | **Section: B**

			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Determination of temporary & permanent hardness of water by complexometry		10/8/2018	10|8|18	1	13/8/2018	13|8|18	1	GVB
2	Estimation of nickel ion by complexometry		17/8/2018	22|8|18	1	20/8/2018	16|8|18	1	GVB
3	Estimation of free chlorine by iodometry		24/8/2018	24|8|18	1	27/8/2018	27|8|18	1	GVB
4	Determination of type and extent of alkalinity by warder's method		31/8/2018	11|9|18	1	10/9/2018	16|9|18	1	GVB
5	Estimation of dissoved oxygen		14/9/2018	21|9|18	1	24/9/2018	24|9|18	1	GVB
6	Determination of copper ions by iodometry		28/9/2018	28|9|18	1	8/9/2018	15|9|18	1	GVB
7	Determination of hardness due to calcium and magnesium separately		12/10/2018	9|10|18	1	22/9/2018	22|9|18	1	GVB
8	Determination of pH by pH meter		26/10/2018	16|10|18	1	29/9/2018	22|9|18	1	GVB

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CCOEW/AS / 18-19 Date: 27/ 07/2018

LESSON & TEACHING PLAN for Engineering Chemistry

Department of Allied Science

Faculty Name: Dr. Asha H. Gedam | Year : 2018-19 | Sem:- I

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book- Chapter no: Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	1-4 Aug	2	III	Introduction, raw materials of portland cement, Cement Moduli		Walekar & Bharati 3A-6 to 3A-7 Edition 2009		(A) 1/8/18 (B) 31/7/18		
				Dry and wet process of manufacture, soundness of cement	student active participation to write chemical reactions using chalk and board	S.S. Dara 287-288 , 11 th edition	PPT	(A) 2/8/18 (B) 2/8/18		
2	6-10 Aug	3	III	Setting and Hardening of cement.	student active participation to write chemical reactions using chalk and board	Walekar & Bharati 3A-7 to 3A-10 Edition 2009		4/8/18 4/8/18		
				Heat of hydration, Types of cement- white, high alumina, Low heat, Rapid hardening		Walekar & Bharati 3A-11 to 3A-12 Edition	PPT	8/8/18 9/8/18		
				Ready mix concrete, Properties, advantages and applications	Questionnaire for students	S.S. Dara 306, 11th edition		10/8/18 11/8/18		
3	13-18 Aug	3	III	Fly ash as cementing materials , Properties, advantages, limitations and applications.	Questionnaire for students	S.S. Dara 307, 11th edition		11/8/18 13/8/18		

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No.		Lect.				Chapter no. Page no,edition. No		Date	utorial Date	
				Principles of green chemistry	Extraction of chemical words dictionary	S.S. Dara 814-815, 11th edition		16/8/18		
								14/8/18		GA
				Biocatalysis and concept of carbon credits,	Graphical representation	S.S. Dara 815-816, 11th edition		17/8/18	(B) 16/8/18	
4	20-25 Aug	3	IV	Battery Technology- primary, secondary, reserve batteries, energy density, power density		S.S. Dara 717 to 729, 11th edition		16/8/18		GA
								13/8/18	(A)	
				Secondary battery: Lithium ion	students involvement to check their mobiles for the type of battery	S.S. Dara 729-735, 11th edition		18/8/18	18/8/18	GA
								23/8/18		
				Nickel- Cadmium, Fuel cell application,	ask to check devices such as cameras			20/8/18		
								24/8/18		GA
5	27-31 Aug	3	IV	Hardness of water and types of hardness, Eq. wt of CaCO3, units of hardness.	Lab. Experiment	S. S. Dara 6-7, 11th edition		21/8/18		
								29/8/18		
				Brief discussion of coagulation, Sterilization by UV,	Lab. Experiment	S.S. Dara 9-10, 11th edition		23/8/18		
								30/8/18		GA
				Sterilization using ozone, chlorine. Break point	Lab Experiment	S. S. Dara 22-29,11th edition		27/8/18		
								31/8/18		
6	1-7 sep.							30/8/18		
						Sessional I				
6	10-15 Sep	3	II	Lime soda process,	To balance the chemical reactions on board	S. S. Dara 22-29, 11th edition		13/9/18	13/9/18	GA
								11/9/18	11/9/18	
				Zeolite process		S. S. Dara 45-48 11th edition	PPT	14/9/18		
				Numericals on zeolite process		S. S. Dara 56-58, 11th edition		17/9/18		
								19/9/18		
7	23-29 Sep	3	II	Numericals on zeolite process				18/9/18		GA
								21,22/9/18		
				Numericals on lime soda process - Type 1			GA	22, 24/9/18		
								25/9/18		
								25, 29/9/18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tool	Completion Date	Assignment/ utorial Date	
				Numericals on lime soda process Type 1		Dara 34-43, Jain and Jain, 36-49, 15th edition				
8	1-6 Oct.	3	II	Numericals on lime soda process Type 2				3|10|18		
				Numericals on lime soda process Type 2				4|10|18		GVS
				Combined numericals on zeolite and lime soda process				5|10|18		
10	8-13 Oct.	4	I	Scales, sludge, caustic embrittlement		S. S. Dara 59-63, 11th edition	PPT	5|10|18 6|10|18		
				carry over, priming, foaming. Boiler corrosion		Dara 59-63, 11th edition	PPT	6|10|18 9|10|18		
				Internal conditioning :- phosphate, carbonate, calgon,		S. Dara 64-66		10|10|18 10|10|18	10|10|18	GVS
11	15-20 Oct.	3	I	Desalination, electro dialysis process,		S. Dara 72-74,		11|10|18 11|10|18		
				Reverse osmosis process, Waste water treatment- brief idea about tertiary treatment		S. Dara 616-618		12|10|18 15|10|18		
12	22-27 Oct.	2	I	Mechanism of chemical and electrochemical corrosion		P.C.Jain and M. Jain 342-343, 15 th edition		17|10|18 17|10|18.		GVS
				Pilling Bed worth rule, Differential aeration theory of		P.C.Jain and M. Jain 330-337		17|10|18 17|10|18.		
13	29-31 Oct.	2		Types of corrosion – Pitting, inter granular corrosion		P.C.Jain and M. Jain 337-340, 15 th edition		20|10|18 20|10|18		
				Stress, Waterline and galvanic corrosion				24|10|18 22|10|18		GVS
14	1-3 Nov.	2		corrosion prevention – Design and material selection,		Jain& Jain 345-349, 15 th edition		25|10|18 23|10|18		
				Protective coatings – tinning, galvanizing, Powder coating, metal cladding, electroplating		P.C.Jain and M. Jain 350-354, 15 th edition	GVS	25, 26|10|18 25, 30|10|18		

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Lab Practicals Plan Sem. II 2018

Date: 31/7/18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande			Subject: Communication Skills			for	Department: Allied science		Section: A
			Batch A1			Batch A2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	BARRIERS TO COMMUNICATION	different activity based on barriers Conducted	31/7/2018	31/7		1/8/2018	1/8		GVB
2	DEVELOPMENT OF WORD POWER	Various Exercises given to all students	7/8/2018	7/8		8/8/2018	8/8		GVB
3	SPEAKING SKILLS	Different topics were given for activity	14/8/18	14/8		29/8/2018	29/8		GVB
4	GROUP DISCUSSION	Different topics were given for Discussion	28/8/18	28/8		12/9/2018	12/9		GVB
5	INTERVIEW TECHNIQUES	HR Questions given for preparation, application for job & Resume writing taken	11/9/2018	11/9		26/9/2018	26/9		GVB
6	FORMAL LETTER WRITING, TECHNICAL REPORT WRITING	Ques. given on formal letter writing, Rep. writing Sample Q. given for practice	9/10/2018	25/9		10/10/2018	10/10		GVB
7	LISTENING SKILLS	Various audios & Questions given to improve Lt. skills	23/10/2018	16/10		24/10/2018	17/10		GVB
8	PRESENTATION SKILLS	different topics given for PPT & Presentation	30/10/2018	23/10		31/10/2018	24/10		GVB

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Lab Practicals Plan Sem. II 2018

Date 24/ 7/ 18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande			Subject: Communication Skills			for	Department: Allied science		Section: B
			Batch B1			Batch B2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	BARRIERS TO COMMUNICATION	Different activity based on Barriers conducted	6/8/2018	6/8		3/8/2018	3/8		GVS
2	DEVELOPMENT OF WORD POWER	Different exercises were given to all students	13/8/2018	13/8		10/8/2018	10/8		GVS
3	SPEAKING SKILLS	Different topics were given for activity	20/8/2018	20/8		17/8/2018	24/8		GVS
4	GROUP DISCUSSION	Different topics were given for discussion	10/9/2018	10/9		31/8/2018	11/9		GVS
5	INTERVIEW TECHNIQUES	Various Sample Q. Ans Job app. letters, covering letters & Resume writing conducted	24/9/2018	24/9		28/9/2018	28/9		GVS
6	FORMAL LETTER WRITING, TECHNICAL REPORT WRITING	Various Sample formal writing Q. taken & Report writing taken	8/10/2018	15/10		12/10/2018	5/10		GVS
7	LISTENING SKILLS	Various Skills Discrepancy audios & Questions given to students	22/10/2018	6/10 extra lect.		26/10/2018	16/10		GVS
8	PRESENTATION SKILLS	Different topics given to Prepare PPT & Presentation	29/10/2018	22/10		2/11/2018	23/10		GVS

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LESSON & TEACHING PLAN FOR BASICS of CIVIL ENGINEERING
Department of Allied Science

Faculty Name: Prof. Rashmi Bharatey | **Subject: Basic Civil Engineering** | **SEM: First (2018-2019)** | **Sem: Odd**

Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/ Tutorial Plan	HOD's Sign
1	31 July – 4 Aug	4	I	**Introduction to Civil Engineering –** Introduction and scope of Civil Engineering. Role of Engineers in the infrastructure development **General concepts related to building.** Selection of site, basic functions of buildings, types of buildings – Residential, Public, Commercial, and Industrial. Principles of planning, orientation of buildings, introduction to bye-laws regarding building line, Height of building, open space requirement, F.S.I., Carpet area, built up area, setbacks, ventilation.	On site demo of Principles of planning Line plan preparation of a residential house using the Principals of planning and byelaws with description note of same	Building Drawing Design: By Shah and Kale Chapter 5 Page no. 178- 250	PPTs Videos (Description on separate sheet)	1/8/18 3/8/18 4/8/18 6/8/18	18 -8 - 2018	
2	6 Aug – 10 Aug	3	I	**Components of Buildings** Introduction to Types of loads on buildings. Substructure – Types of soils; rocks and foundation strata, concept of bearing capacity, Types of foundation and their suitability.				8/8/18 10/8/18		

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Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/ Tutorial Plan	HOD's Sign
				Superstructure –Types of construction: Load Bearing, Framed, and Composite.	Observation of actual site and building	Basic Civil Engineering: By Dr. B. C. Punmia, Ashok Kumar Jain, Arun Kumar Jain. Edition 1 reprint 2011 Chapter 16,17 Page no. 359,361-373,385-403 Building Construction: By Sushil Kumar Chapter 19 & 22 Page 463 – 465 & 517 - 563	PPTs Videos (Description on separate sheet)	16/08/18	}	GW
3	13 Aug – 18 Aug	3	I	**Building Materials** Introduction to basic construction materials; cement, bricks, stone, aggregates, structural glazing, structural steel; reinforcing steel, Concrete types: PCC, RCC, Prestressed, Precast and Ready Mix Concrete.	Presentation by student groups on different materials Observation of actual material	By Dr. B. C. Punmia, Ashok Kumar Jain, Arun Kumar Jain. Edition 1 reprint 2011	PPTs Videos (Description on separate sheet)	17/8/18 18/8/18 23/8/18	}	GW

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Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/ Tutorial Plan	HOD's Sign
9	1 Oct– 6 Oct	4	III	Purification of water, modern purification processes; Standards of purified water. Waste Management: Collection and Disposal methods of Liquid, solid and gaseous wastes.		Basic Civil Engineering: By Dr. B. C. Punmia, Ashok Kumar Jain, Arun Kumar Jain. Edition 1 reprint 2011 Chapter 18 Page no. 405-441		28/9/18 3/10/18 4/10/18		GAS
10	8 Oct– 13 Oct	3	III	**Water Resources Engineering** Introduction to Hydraulic structures of storage; water conveyance systems; Condition monitoring equipments , Half Cell Watershed management: Definition, Necessity and methods;				5/10/18 6/10/18 10/10/18		GAS
11	15 Oct– 20 Oct	4	III, IV	Roof top rain water harvesting and Ground water recharge: relevance and methods. **Instrumentation in Civil Engineering Structures:**			PPTs Videos (Description on separate sheet)	11/10/18 12/10/18 17/10/18		GAS
				Various Instruments used in construction, water resources. Environmental Engineering. Foundation Engineering. Thermocouples			PPTs Videos (Description on separate sheet)	19/10/18	31-10-2018	GAS
12	22 Oct– 27 Oct	3	IV	Condition monitoring equipments , Half Cell Potentiometers, Strain Gauges. Management of Utilities using telemetry & SCADA System				20/10/18 24/10/18 25/10/18 26/10/18		GAS

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Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/ Tutorial Plan	HOD's Sign
13	29 Oct– 3 Nov	4	IV	**Sustainable Development:** Role of Engineers in Sustainable Development. Concept of green buildings and LEED Certification.			PPTs Videos (Description on separate sheet)	27/10/18 31/10/18 1/11/18 3/11/18		GAJ
							PPTs Videos (Description on separate sheet)			

GAJ
HOD

Date: 25/07/2018

Prof Rashmi Bharatey

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Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/ Tutorial Plan	HOD's Sign
						Chapter 1 Page no. 3- 12, Chapter 2 Page no.32- 35, 57-61, Chapter 4 -8 Page no.101- 180 Elements of Civil Engineering: By S. S. Bhavikatti Edition 1 - 2010 Unit II Chapter 1-9 Page 17 – 106				
4	20 Aug – 25 Aug	3	II	**Surveying** Various types of maps and their uses; Introduction to digital mapping; Principles of survey.		Surveying And Levelling:By Kanetkar and Kulkarni Chapter 1,2,4,7 Page 1-41, 136-140, 354-360	PPTs Videos (Description on separate sheet)	24/8/18 29/8/18 30/8/18	15 – 9 - 2018	
5	27Aug – 31Aug	3	II	Introduction to various survey instruments such as EDM, Lasers, Total Station, and digital planimeter.				31/8/18 13/8/18		
					Sessional 1					

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Week N0.	Week	No. of Lect	Unit N0.	Exact Topic Name and Subtopic	Activity/ Teaching Aid	Reference Book – Chapter no. Page no. Edition no.	ICT tools	Completion Date	Assignment/ Tutorial Plan	HOD's Sign
6	10Sept – 15Sept	3	II	Modern survey methods. Introduction to GIS, GPS and their applications		Elements of Civil Engineering: By S. S. Bhavikatti Edition 1 - 2010 Unit III Chapter 1-4 Page 113 – 168 Transportation Engineering:By Khanna & Justo		14/8/18		
7	17Sept – 22Sept	4	II	**Transportation Engineering Role** of transportation in national development: Various modes of Transportation. Classification of Highways: Expressways, NH, SH, MDR, ODR, VR; Types of Pavements, Traffic Signs, signals, Parking system, and Causes of Accidents	Group activity making poster of map and Traffic signs		PPTs Videos (Description on separate sheet)	12/9/18 13/9/18 15/9/18 19/9/18		
8	24Sept – 29Sept	3	III	**Environment and Natural Resource Management** Water supply - Sources, drinking water requirements, impurities in water and their effects;	Visit to water treatment plant	Water Supply and Sanitary Engineering: Including Environmental Engineering, Water And Air Pollution Laws And Ecology: By G. S. Birdie, J. S. Birdie Chapter 1,2,4,5,6 Page no. 1-8,21-27,71-73,159-234,330-408	PPTs Videos (Description on separate sheet)	20/9/18 21/9/18 27/9/18	10 – 10-2018	
								28		

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Lab Practicals Plan Sem. I

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Bhagyashree Joshi	Subject: Computational Skills.	for		Department: Allied Science	Section: 1st Semester Section A

Section A

Pi	Name of experiment	Possible Variations Used	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print		print	fill	fill	fill
1	Fundamentals of Computers	Variations Through different programs using different values	6/Aug/18	13/Aug/18		GVAS
2	Fundamentals of "C" language	Variations Through different programs using different values	13/Aug/18	20/Aug/18		GVAS
3	Fundamentals of Decision Control Structures	Variations Through different programs using different values	20/Aug/18	27/Aug/18		GVAS
4	Fundamentals of Loop Control Structures	Variations Through different programs using different values	27/Aug/18	17/Sep/18		GVAS
5	Fundamentals of One Dimensional Arrays	Variations Through different programs using different values	10/Sep/18	17/Sep/18		GVAS

Faculty in charge

GVAS
HoD

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Faculty Name: Prof. Bhagyashree Joshi	Subject: Computational Skills.	for		Department: Allied Science	Section: 1st Semester Section A

Section A

Pi	Name of experiment	Possible Variations Used	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print		print	fill	fill	fill
6	Fundamentals of Two Dimensional Arrays	Variations Through different programs using different values	17-09-2018	24-9-18		
7	Fundamentals of Pointers	Variations Through different programs using different values	24/Sep/18	28-9-18		
8	Fundamentals of Strings	Variations Through different programs using different values	1/Oct/18	15-10-18		
9	Fundamentals of Functions	Variations Through different programs using different values	8/Oct/18	22-10-18		
10	Fundamentals of Functions	Variations Through different programs using different values	15/Oct/18	22-10-18		

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HoD

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Lab Practicals Plan Sem. I

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Bhagyashree Joshi	Subject: Computational Skills.	for		Department: Allied Science	Section: 1st Semester Section B

			Section B			
Pi	Name of experiment	Possible Variations Used	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print		print	fill	fill	fill
1	Fundamentals of "C" language	Variations Through different programs using different values	31/Jul/18	31/Jul/18		
2	Fundamentals of Decision Control Structures	Variations Through different programs using different values	7/Aug/18	14/Aug/18		
3	Fundamentals of Loop Control Structures	Variations Through different programs using different values	14/Aug/18	21/Aug/18		
4	Fundamentals of One Dimensional Arrays	Variations Through different programs using different values	21/Aug/18	28/Aug/18		
5	Fundamentals of one Dimensional Arrays	Variations Through different programs using different values	28/Aug/18	11/Sep/18		
6	Fundamentals of Two Dimensional Arrays	Variations Through different programs using different values	11/Sep/18	18/Sep/18		

Faculty in charge

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Faculty Name: Prof. Bhagyashree Joshi	Subject: Computational Skills.	for	Department: Allied Science	Section: 1st Semester Section B

Section B

Pi	Name of experiment	Possible Variations Used	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print		print	fill	fill	fill
7	Fundamentals of Pointers	Variations Through different programs using different values	18/Sep/18	27-9-18		GAJ
8	Fundamentals of Strings	Variations Through different programs using different values	9/Oct/18	9-10-18		GAJ
9	Fundamentals of Functions	Variations Through different programs using different values	16/Oct/18	16-10-18		GAJ
10	Fundamentals of Functions	Variations Through different programs using different values	23/Oct/18	23-10-18		GAJ

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Page 2

HoD

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Department of Electronics &Telecommunication Engineering

(ACADEMIC YEAR 2022-23 to 2018-19)

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Academic year

2022-23

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CCOEW/ETC 22-23 | Date:

LESSON & TEACHING PLAN for Industrial Economics and Entrepreneurship Development

Department of Electronics & Telecommunication Engineering

Faculty Name: Prof. Priyadarshini Ramteke		Sub:Industrial Economics and Entrepreneurship Development	Sec:	Year : 2022-23	Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	1-6 Aug	0		**Skill Development**							
2	8-13 Aug	3	I	Industrial Economics: Introduction					8/8/22		
				Types of Business structures: Sole Proprietorship					18/8/22		
3	15-20 Aug	2		Partnership					20/8/22 22/8/22		
4	22-27 Aug	4		Types of Partnerships, Corporation: Merits and demerits					25/8/22 1/9/22		
5	29 Aug - 3 Sept	3		Joint Stock Company					6/9/22		
				Difference between Public and Private Company					8/9/22		
				Financial Statements					7/9/22		
6	5 - 10 Sept	4		Top and Bottom Line of the organization					7/9/22		
				Economic Analysis & Economic Prudence					7/9/22		
			II	Costing					8/9/22	8/9/22	
				Market Structures					12/9/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
7	12 - 17 Sept	4	II	Perfect Competition					17/9/22		
				Monopolistic Competition & Monopoly					26/9/22		
				Oligopoly					27/9/22		
				Pricing Strategies					28/9/22		
8	19 - 24 Sept			SESSIONAL - I							
9	26 Sept - 1 Oct	4		Business integration					29/9/22		
				Economies and Diseconomies of Scale & Optimum Size of the firm							
				LPG Policy					10/10/22		
				Business Cycles					11/10/22		
10	3 - 8 Oct	4	III	Functions of Central Bank					3/10/22		
				Functions of Commercial Banks					3/10/22 4/10/22 4/10/22		
11	10 - 15 Oct	4		Foreign Direct Investment					17/10/22		
				Free Trade Vs. Protection					18/10/22		
				Capital Formation					5/10/22		
				Inflation: Types and Causes					2/11/22		
12	17 - 22 Oct	4		Inflation: Control and Effects					2/11/22		
				Deflation and Stagnation					3/11/22		
				Public Private Partnership					4/11/22		
				Inclusive Growth					5/11/22		
13	24 - 28 Oct			DIWALI VACATION							

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EEK o.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
4	31 Oct - 5 Nov	4	IV	Direct Sources of finance					7/11/22		
				Indirect sources of finance					9/11/22		
				Venture Capital and Angel Funding					10/11/22		
				Capital Structure					11/11/22	1/12/22	
15	7 - 12 Nov	4		Working Capital					14/11/22	1/12/22	
				Break Even Analysis					26/9/22		
				Network Analysis Techniques: PERT/CPM					15/11/22		
				Canons of taxation					17/11/22		
16	14 - 19 Nov	4		Direct Taxes					18/11/22		
				Indirect Taxes					19/11/22		
			V	Small Scale Industries: Features and Problems					21/11/22 22/11/22		
				Sickness in SSIs					23/11/22		
17	21 - 26 Nov	4		FDI and threats to SSIs					24/11/22		
				Technical Consultancy Organizations					25/11/22		
				Government Policies to SSIs					28/11/22		
				Tax Benefits& Incentives to SSIs					29/11/22		
3	28 Nov - 3 Dec		SESSIONAL - II								

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Department of Electronics and Telecommunication

LESSON & TEACHING PLAN for Signals and Systems

Faculty Name: Prof. Saroj P. Sahu | Sub: Signals & System (BEETE305T) Year : 2022-23 | SEM-III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	29 Aug-4 Sept 22	2	I	Course Objective, Introduction of subject, Syllabus discussion,Standard signals: Step, Impulse	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	30/08/22		
				Properties of impulse signal	SHARING SELF NOTES PDFs PPTs		01/09/22		
2	5-11 Sept 22	3	I	Ramp signal, sinusoidal signals . Real & complex exponentials signals	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	02/09/22		
				Classification of signals,Periodic and aperiodic signals, Deterministic and			03/09/22		Raut
				Energy and power signals.			05/09/22		
3	12-18 Sept 22	4	I	Sampling: Introduction, Need for perfect reconstruction, Sampling theorem,	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	07/09/22		
				Nyquist rate of sampling, zero order hold and first order hold.			19/09/22		
				Classification of Systems: Continuous time and Discrete time,Static and			20/09/22		

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				Linear and nonlinear, Time variant and Time invariant system			20/9/22	
4	19-25 Sept 22	3	II	Casual and non-casual,Stable and unstable,	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	21/09/22	
				Invertible and Inverse system.			21/09/22	
				Tutorial			22/09/22	
5	26 sept - 2 Oct 22	4	II	Introduction, Continuous-Time LTI systems: The Convolution Integral,	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	22/09/22	Assignment 1
				Properties of Linear Time Invariant systems,			26/9/22	
				LTI Systems with and without memory,			27/9/22	
				Invertibility of LTI systems,Causality			28/9/22	
6	3-9 Oct 22	2		Stability of LTI systems		Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	29/9/22	
				The unit step response of an LTI system.			03/10/22	
7-Jan	10-12 Oct 22	1		Block diagram representations of first-order systems described by differential equation			4/10/22 (2)	
	13-20 Oct 22	Sessional I Examination						
	24-28 Oct 22	DIWALI VACATION						
7	31 Oct- 6 Nov 22	4	III	Fourier Series: Trigonometric Fourier Series,	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	6/10/22	Assignment 2
				Exponential Fourier Series,			10/10/22(2)	
				Fourier Transform & inverse FT			11/10/22	
				Fourier Transform Properties:Linearity, Time Shifting,			12/10/22	
				Convolution property. Time and frequency scaling,			17/10/22	

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8	7-13 Nov 22	3	IV	Duality, Multiplication property, Differentiation and Integration, Persevals relation	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	1/11/22 2/11/22 (2)		
9	14-20 Nov 22	4	IV	Review of the Laplace Transform for continuous time signals and systems Properties if LT, INVERSE LT System Functions,	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	3/11/22 (2) 5/11/22 (2) 7/11/22 (2) 9/11/22	 Assignment 3	
10	21-27 Nov 22	3	V	Poles And Zeros Of System Functions Laplace domain analysis of LTI systems. Tutorial	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	10/11/22 (2) 14/11/22 15/11/22	 	
11	28 Nov - 4 Dec 22	4	V	Representation of aperiodic Signals,DTFT Introduction, The Fourier Transform of periodic signal, Properties of Discrete-Time Fourier Transform, Properties of Discrete Fourier Transform,	SHARING SELF NOTES PDFs PPTs	Signals & Systems By Aanand Kumar, Signals & Systems By Ramesh Babu	16/11/22 17/11/22 21/11/22 23/11/22	 	Rau
	5-11 Dec 22	3		Inverse DFT Frequency response of discrete time LTI systems. Frequency response of discrete time LTI systems.			24/11/22 25/11/22 28/11/22	 	
15	15-23 Dec 22	Sessional-II							

Prof. S. P. Sahu
Subject Teacher

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Department of Electronics and Telecommunication

LESSON & TEACHING PLAN OF Sensors and Systems (BEETC-505PE) — **SEM-IV**

Faculty Name: Prof. Saroj P. Sahu

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/ Tutorial Date	AC's sign
1	8 - 14 Aug 22	3	I	Introduction of subject, Course Objective, Course Outcomes Syllabus, Sensors / Transducers: Principles	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Sensors and signal conditioning by Jacob Fraden, Piezoelectric Sensors & Actuators By Senturia S D, Sensors and Transducers By D Patranabis	18/8/22		
				Classification, Parameters			23/8/22		
				Characteristics,			24/8/22		
2	15-21 Aug 22	3	I	Environmental Parameters (EP),	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard		25/08/22		
				Characterization,			30/8/22		
				Design procedure while choosing the sensors for various application.			01/9/22		
3	22-28 Aug 22	3	I	Types of sensors: Inductive sensors,	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Sensors and signal conditioning by Jacob Fraden, Piezoelectric Sensors & Actuators By Senturia S D, Sensors and	2/9/22		
				Capacitive Sensors			2/9/22		
				Resistive sensors.			2/9/22		
4	29 Aug - 4 Sept 22	3	II	Camshaft Position Sensor			6/9/22		
				,Throttle Position Sensor ,			7/9/22		
				Vehicle Speed Sensor,			8/9/22		
5	5-11 Sept 22	3	II	Voltage sensor,	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Sensors and signal conditioning by Jacob Fraden,	8/9/22		
				Fuel Temperature Sensor,			16/9/22		
				Manifold Absolute Pressure (MAF) Sensor,			17/9/22		
							17/9/22		

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6	12 -18 Sept 22	4	II	Coolant Sensor, Spark Knock Sensor, Mass airflow sensor. Selection of appropriate model & types of sensors, Oxygen Sensor, Engine Speed Sensor, their Interfacing with microcontroller, calibration, characterization.	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Piezoelectric Sensors & Actuators By Senturia S D, Sensors and Transducers By D Patranabis	27/9/22 28/9/22 28/9/22		1
8	17-23 Sept 2022			Sessional-I					
10	26 Sept-2 Oct 22	4	III	Rotary transformer, torque transducer, passive seed sensors, smart position sensor, noncontact hall effect rotary position sensors, current and voltage sensors,	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Sensors and signal conditioning by Jacob Fraden, Piezoelectric Sensors & Actuators By Senturia S D, Sensors and Transducers By D Patranabis	29/9/22 4/10/22 8/10/22 7/10/22	Assignment-1 4/10/22	
11	3-9 Oct 22	2	III	hot metal detector, proximity and displacement sensor.	SHARING SELF NOTES, PDFs PPTs, Gifs,		11/10/22 12/10/22		
12	10-16 Oct 22	4	III IV	Selection of appropriate model & types calibration, characterization. Temperature Sensor, Pressure Accelerometer and Gyroscope Sensor,	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Sensors and signal conditioning by Jacob Fraden, Piezoelectric Sensors & Actuators By Senturia S D, Sensors and Transducers By D Patranabis	13/10/22 13/10/22 18/10/22 01/11/22		
13	17-23 Oct 22	3	IV	IR Sensor, Optical Sensor, Gas Sensor, Smoke Sensor, rain sensor, motion sensor, RFID.			3/11/22 4/11/22 5/11/22		
15	31 Oct-6 Nov 22	4	IV	Selection of appropriate model & types of sensors, their Interfacing with microcontroller, calibration, characterization. Case Study: Designing sensors interface for :	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Sensors and signal conditioning by Jacob Fraden, Piezoelectric Sensors &	9/11/22 9/11/22 10/11/22	Assignment-2	

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				2. Waste management system.		Actuators By Senturia S D, Sensors and Transducers By D Patranabis	11/11/22		
16	7-13 Nov 22	3	V	Pneumatic and Hydraulic Actuation Systems- Actuation systems,	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard		17/11/22		
				Pneumatic and hydraulic systems,			18/11/22		
				Directional Control valves, Pressure control valves			19/11/22		
17	14-20 nov 22	4	V	Cylinders, Servo and proportional control valves,	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard	Sensors and signal conditioning by Jacob Fraden, Piezoelectric Sensors & Actuators By Senturia S D, Sensors and Transducers By D Patranabis	23/11/22		Rawl
				Process control valves, Rotary actuators,			24/11/22		
				Mechanical Actuation Systems Types of motion, Kinematic chains,			25/11/22		
				Cams, Gears, Ratchet and pawl, Belt and chain drives, Bearings,			27/11/22	Assignment 3	
18	21-27 nov 22	3	V	Mechanical aspects of motor selection, Electrical Actuation Systems, Electrical systems,	SHARING SELF NOTES, PDFs PPTs, Gifs, Numericles on Whiteboard		28/11/22		
				Mechanical switches, Solid-state switches, Solenoids,			29/11/22		Rawl
				D.C. Motors, A.C. Motors, Stepper motors.			29/11/22		
8	28 -3 Dec 2022			Sessional-II					

Prof. S. P. Sahu
Subject Teacher

Prof. Jaya Gadge
Academic Coordinator

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LESSON & TEACHING PLAN for Engineering Physics

Department of Electronics and Telecommunication

Faculty Name: Prof.Jaya Gadge | Sub: VLSI Signal Processing (Elective-I) | Year : 2022-23 | SEM-VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug. - 12Aug.22	5	I	Pipelining and Parallel Processing:Introduction of Pipelining,Types of Graph used in DSP system,DFG,SFG,DG &Data Broadcast structure,Pipelining of FIR Digital		VLSI Signal processing & Implementation by Keshab Parhi,chapter no.3,page no. 63-74	19/8/22 20/8/22		
2	17Aug-20 Aug22	4	I	Fine grain pipelining,Introduction of Parallel Processing,Designing a parallel FIR Filter,Numerical based on Parallel Processing		VLSI Signal processing & Implementation by Keshab Parhi,chapter no.3,page no. 75-83	22/8 24/8/22 Tutorial		

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3	22 Aug-26Aug22	5	I	Pipelining processing for low power,parallel processing for low power,Combined processing for low power,Numericals	VLSI Signal processing & Implementation by Keshab Parhi,chapter no.3,page no. 84-88	29/8
				Tutorial		8/9/22 Tutorial
4	29 Aug-3 Sep22	5	II	Retiming,Introduction,Definition and properties,solving system of inequalities,retiming techniques.	VLSI Signal processing & Implementation by Keshab Parhi,chapter - 4,page no. 91-108	1/9 2/9
5	5 Sep - 9 Sep22	5	II	retiming techniques,Cutset retiming & Pipelining,Retiming for clock minimization,Retiming for Register minimization	VLSI Signal processing & Implementation by Keshab Parhi,chapter - 4,page no. 109-118	3/9 /10 4/10/22
6	12Sept-16Sept 22	5	III	Unfolding-Introduction,algorithms for unfolding,Properties of unfolding,Critical path	VLSI Signal processing & Implementation by Keshab Parhi ,chapter	7/10 17/10 17/10

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8	03 Oct - 7 Oct 22	5	III	unfolding and retiming,Application of Unfolding,Numericals		VLSI Signal processing & Implementation by Keshab Parhi ,chapter no.5,page no.129-147	18/10
				Tutorial			14/11/22 Tutorial
9	10Oct -15 Oct 22	6	IV	Introduction,Folding Transformation,Registration minimization Technique		VLSI by Keshab parhi,chapter no.6,page no.149 - 164	14/11 28/11/22
10	17 Oct -21Oct 22	5	IV	Registration minimization in folded Architecture,Folding in Multirate systems,Examples		VLSI by Keshab parhi,chapter no.6,page no.165 - 186	28/11 28/11/22
				Tutorial			Tutorial
				Fast			30/11/22

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11	31 Oct - 5 Nov. 22	6	V	Fast Convolution:Introduction,Cook-Toom algorithm,Numericals Modified Cook-Toom algorithm,Winograd algorithm Tutorial		VLSI Signal processing & Implementation by Keshab Parhi chp.8,page no.237-243	05/12 Tutorial
12	7 Nov - 11 Nov. 22	5	VI	Iterated convolution,Cyclic Convolution Design of Fast Convolution Algorithm by Inspection,Numericals Tutorial		VLSI Signal processing & Implementation by Keshab Parhi ,chp.8 ,page no.244-253	9/12 14/12 Tutorial

Subject Teacher

Academic Coordinator

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CCOEW/ ETC/ 22-23

LESSON & TEACHING PLAN for Wireless Sensor Network

Department of Electronics & TelecommunicationEngineering

Faculty Name: Dr. Jaya Gadge | Subject Code: BEETE603T

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	23 JAN-27 JAN 23	5		Skill Development Workshop		23-27 Jan.		
1	30 JAN-4 FEB 23	6	I	Introduction to Wireless Sensor Networks and its Applications :Introduction and Overview of Wireless Sensor	Wireless sensor Network ,Technology,Protocols and applications page no.1-31&38 to 71	30/1 ↓ 7/2 10/2	Assignment 1	Rauk
2	6 FEB-10 FEB 23	5		Applications of Wireless Sensor Networks, Basic Wireless Sensor Technology, Sensor		9/3 ↓ 14/2		
				Wireless Transmission				

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3	13 FEB - 18 FEB 23	5	II	Technology and Medium Access Control Protocols,Radio	Wireless sensor Network ,Technology,Protocols and applications page no.93 to 171
4	20 FEB - 24 FEB 23	5		MAC protocols for WSN, IEEE 802.15 4LR WPAN, Sensors Network Protocols, Data dissemination and gathering	
5	6 MAR-10 MAR 23	5	III	Protocols for Wireless Sensor Networks Transport Control Protocols for Wireless Sensors Networks, Traditional	Wireless sensor Network ,Technology,Protocols and applications page no.197 to 213
7	13 MAR-18 MAR	5	SESSIONAL-II (19th - 25th)		
8	20 MAR-25 MAR 23	6	III	examples of existing transport control protocol, performance of TCP,Routing Challenges and design issues in wireless sensor	Wireless sensor Network ,Technology,Protocols and applications page no.229 to 242
	27 MAR - 01			Middleware and Network Management for Wireless Sensor	

Assignment 2

18/4

2/2

1/3/3

1/2/3

2/3

3/3

04/04

Ravi

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9	27 MAR - 04 APRIL 23	6	IV	Networks (5) Middleware for Sensor Networks,WSN middleware	Wireless sensor Network ,Technology,Protocols and applications page no.246 to 270	
10	06 APRIL- 10 APRIL 23	5		Network Management for Wireless Sensor Networks, Requirements, Design issues, Examples of		
11	13 APRIL - 18 APRIL 23	6	V	Operating Systems and Hardware for Wireless Sensor Networks Introduction, Operating System Design Issues, Examples of Operating Systems: TinyOS, MANTIS, Programming tool:	Wireless sensor Network ,Technology,Protocols and applications page no.273 to 300	
12	20 APRIL - 21 APRIL 23	2				
13	24 APRIL - 29 APRIL 23	SESSIONAL - II				

Subject Teacher

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Department of Electronics and Telecommunication

LESSON & TEACHING PLAN OF Optical Communication

Faculty Name: Prof. Pallavi Ganorkar	Sub: Optical Communication	BEETE703T	Year : 2022-23	SEM-VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no edition	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8 - 14 Aug 22	3	I	Syllabus discussion				"Optical Fiber Communication", Gerd Keiser, 3rd Ed., McGraw Hill,		8/8		
				Introduction, advantages, disadvantages						8/8		
				applications of optical fiber communication, Ray theory,						17/8		
2	15-21 Aug 22	3	I,II	classification of Optical Fibers						18/8	18/8	
				Fiber manufacturing & Fiber materials,						20/8		
				manufacturing methods						23/8		
3	22-28 Aug 22	3	II	Attenuation, Absorption, scattering losses, bending loss,				"Optical Fiber Communication", Gerd Keiser, 3rd Ed., McGraw Hill,		8/9	Assignment 1	
				dispersion, Intra modal dispersion, Inter modal dispersion						12/9		
				Numericals						12/9	12/9	
	29			Introduction, fiber alignment and joint loss,						12/9		

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4	Aug - 4 Sept 22	3	III	single mode fiber joints, fiber splices,			"Optical Fiber Communication", Gerd Keiser, 3rd Ed., McGraw Hill,		13/9		5	
				fiber connectors					26/9			
				fiber couplers.					26/9			
5	5-11 Sept 22	3	III	LED's					27/9			
				LASER diodes					28/9			
				Tutorial					28/9	28/9		
6	12 -18 Sept 22	4	IV	Photo detectors, Photo detector noise, Response time,			"Optical Fiber Communication", Gerd Keiser, 3rd Ed., McGraw Hill,		4/10	Assignment 2		
				comparison of photo detectors					4/10			
				Optical Receiver Operation, receiver sensitivity, quantum limit,					6/10			
				coherent detection, burst mode receiver operation,					17/10			
8	17-23 Sept 2022			**Sessional-I**								
10	26 Sept-2 Oct 22	4	V	Analog receivers			"Optical Fiber Communication", Gerd Keiser, 3rd Ed., McGraw Hill,		17/10			
				Analog links – overview of analog links,					18/10			
				CNR, multichannel transmission techniques					18/10			
				Digital links – point-to-point links,					4/11			
11	3-9 Oct 22	2	V	System considerations, link power budget, rise time budget			"Optical Fiber Communication", Gerd Keiser, 3rd Ed., McGraw Hill,		14/11			
				transmission distance for single mode links.					15/11			
				Operational Principles of WDM,					15/11			

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12	10-16 Oct 22	4	VI	basic applications and types of optical amplifiers semiconductor optical amplifiers EDFA			"Optical Fiber Communication", Gerd Keiser, 3rd Ed., McGraw Hill,		24/11	Assignment 3	
13	17-23 Oct 22	3	VI	Measurement of Attenuation and dispersion. Study of various application of optical fiber communication Revision					28/11 2-8/11 5/12 5/12 8/12		
15	31 Oct-6 Nov 22	4									
16	7-13 Nov 22	3									
17	14-20 Nov 22	4									
18	21-27 Nov 22	3									
8	28 -3 Dec 2022			Sessional-II							

Prof. Pallavi Ganorkar
Subject Teacher

Prof. Jaya Gadge
Academic Coordinator

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CCOEW/ETC / 22-23 Date: 20/1/2023

LESSON & TEACHING PLAN for Computer Communication Network

Department of Electronics and Telecommunication									
Faculty Name: Mrs. Pallavi Ganorkar					Sub: Computer Communication Network		Year : 2022-23		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/ Tutorial Date	AC's sign
1	23-27 Jan 23	5		Skill development workshop			27|1	9|2	
2	30 Jan-4 Feb 23	6	I	Uses of computer Network, Network Software-design Issues for layers, Service primitives and relationship of services to Protocols, Reference models-OSI,TCP/IP		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education, Page no. 23-102, page no. 109-136	8|2		
3	6-11 Feb 23	5	I,II	network architectures introduction, Example of networks-X.25, Frame Relay & ATM, Protocols and Standards, Physical layer-Data rate limits, Transmission media-guided and Unguided,			10|2		

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4	13-18 Feb 23	5	II	Switching systems-Circuit switching, Datagram Switching & Virtual circuit switching, Structure of circuit and packet switch,	Will show them in CC lab	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education Page no. 203-206, page no. 213-271, page no. 275-298	14/2		
5	20-25 Feb 23	5	II, III	cable modem and DSL technologies, SONET basics, selection of IEEE std 802.11 ,a,b,c,g, Data link layer: Framing,	Will show them in CC lab		15/2	15/2	
6	6-11 Mar 23	4	III	Flow & Error control Protocols, HDLC, PPP, Multiple access techniques,random access, controlled access & Channelization,			13/3		
7	13-18 Mar 23	**Sessional I**							
8	20-25 Mar 23	4	III	Ethernet types-bridged, Switched, Full duplex, Fast & gigabit Ethernet, Introduction to Data link layer in 802.11 LAN. Connecting devices like passive hubs, repeaters. Active hubs, Bridges, Two-layer Switches, Routers, three layer switches, Gateway etc..	Will show them in CC lab	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education Page no. 298-330, page no.350-360	23/3		

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9	27 Mar-1 Apr 23	5	III, IV	Backbone networks, Virtual LANs, Simple Router architecture, Sliding window protocol, IPv4 address, IPv6 address, Address mapping-ARP, RARP & DHCP	Demonstration on on Desktop PC	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education Page no. 454-483	3/4		
10	3-8 Apr 23	2	IV	IPv4 datagram detail format, IPv6 datagram detail format, ICMP, IGMP,		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education page no. 373-396, page no.513-613	4/4		
11	10-15 Apr 23	5		Network layer issues like Delivery, forwarding, intra-domain and Inter-domain routing, Routing algorithms like Shortest path routingFlooding, Distance Vector Routing, Link State Routing, Path vector routing etc.,			7/4		Rout
12	17-22 Apr 23	5	IV,V	Addressing types-Physical, Logical & port address.Process to process delivery,Connection oriented & Connectionless Transport, UDP,TCP, congestion control and Quality of Service. Application layer protocols and applications like Ping, FTP, telnet, http (www), SMTP, SNMP.	Demonstration on on Desktop PC		11/4		

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14	24-29 Apr 23	Sessional II							
13	1-6 May 23	5	V	Trace route, TFTP, BOOTP, DNS, NFS, RPC, X-server, E-mail, Introduction to streaming Audio/Video,P2P file sharing, Introduction to socket programming	Demonstration on on Desktop PC	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education	17|4		
15	8-13 May 23	5	VI	Secret key algorithm, public key algorithm, Hash Functions, basic ITU-T Recommendation - X.805 Security Architecture, Basics of Security Requirements/Services/Dimensions, Basics of Security	Demonstration on on Desktop PC	William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson Education	18|4 + In practice		Raut
16	15-20 May 23	6		UTP Cabling for PC to PC communication, Network tester, network monitoring, Protocol Analyzer, Network Simulation, internet access through Dialup/DSL/Leased Line/Mobile handset	Will show them in CC lab	William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson Education	Assign. + notes		

Sub. Teacher

Academic Coordinator

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CCOEW/ETC / 22-23 Date: 20/1/2023

LESSON & TEACHING PLAN for Computer Communication Network

Department of Electronics and Telecommunication

Faculty Name: Mrs. Pallavi Ganorkar					Sub: Computer Communication Network		Year : 2022-23		Sem:- VI
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/ Tutorial Date	AC's sign
1	23-27 Jan 23	5		Skill development workshop			27|1		
2	30 Jan-4 Feb 23	4	1	Introduction to Networks, Network Topology, Types of communication:-simplex, half duplex, full duplex,Network classification:- LAN,MAN,WAN,		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education	6|2		
3	6-11 Feb 23	3		Network Architecture, Protocols, Services and primitives, OSI Reference Model, TCP/IP Reference Model.			8|2	10|2	

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4	13-18 Feb 23	3	I	Transmission Media:-Guided Media, Unguided, Structure of Switch, types of switches. Switching Techniques:- Circuit-switching, Message switching, packet switching.		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education	14/2		
5	20-25 Feb 23	3	II	Design Issues, Framing methods, Flow Control and Error Control, Stop-and-wait flow control,Sliding-window flow control.			16/2		
6	6-11 Mar 23	3		Stop-and-wait ARQ, Go-back-N ARQ, Selective repeat ARQ, HDLC,MAC sub layer: ALOHA,CSMA-CD.			21/2	21/2	Rauk
7	13-18 Mar 23	Sessional I							
8	20-25 Mar 23	3	III	Network layer duties, Routers, IP addressing and its classification, IPv4 address, IPv6 address.		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education	14/3		
9	27 Mar-1 Apr 23	4		Mask and Subnet, Routing algorithms like Shortest path routing, Djkstra's algorithm, Bellman Ford Algorithm.			28/3		Rauk
10	3-8 Apr 23	2		Distance Vector Routing, Dynamic Routing.			11/4		

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11	10-15 Apr 23	3	IV	Transport layer services, Connection oriented & Connectionless, Three-way handshaking, UDP model,		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education	3/4		
12	17-22 Apr 23	4		TCP:- TCP header format, comparison between UDP and TCP, Need of Congestion control, Principal of congestion, Quality of Service (QoS), Token bucket and leaky bucket algorithm.			10/4		
14	24-29 Apr 23	**Sessional II**							
13	1-6 May 23	4	V	Application Layer: DNS, Electronic Mail, File Transfer (FTP), WWW, HTTP, SNMP, SMTP.		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education	13/4		
15	8-13 May 23	4		Introduction to Cryptography, Secret key algorithm, public key algorithm, Digital Signature, Basics of Attacks and security.		William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson Education	19/4		

Sub. Teacher

Academic coordinator

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LESSON & TEACHING PLAN for Measurement and instrumentation

Department of Electronics and Telecommunication

Faculty Name: Prof. Pallavi Ganorkar				Sub: Measurement and instrumentation					BEETE306T	Year : 2022-23		SEM-III
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	29 Aug-4 Sept 22	2	I	Syllabus				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		2|9		
				Purpose of instrumentation, Basic elements of instrumentation,						12|9		
2	5-11 Sept 22	3		Statistical analysis and measurement of errors,						22|9		
				Principle and operation of ammeters,						23|9		
				voltmeters and wattmeters						29|9		Rau
3	12-18 Sept 22	4		moving iron and moving coil,				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		3|10		
				dynamometer, Multimeter						4|11		
				Energy Meter						9|11		
				Transducers, classification & selection of transducers,						9|11		
4	19-25 Sept 22	3		strain gauges, inductive & capacitive transducers,				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		14|11		
				inductive & capacitive transducers,						14|11		
				piezoelectric and Hall-effect transducers,						17|11		

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5	26 sept - 2 Oct 22	4		thermisters, thermocouples, photo-diodes,photo-transistors				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		18/11		
				encoder type digital transducers, signal conditioning and Data Acquisition Systems						19/11		
				.Sensors for measurement of Liquid level, Gas flow,						22/11		
				liquid flow, Pressure, Humidity, Temperature, Vibration, Acceleration						23/11	~~Assignment 1~~	
6	3-9 Oct 22	2	II	PMMC galvanometer, dc & ac voltmeter,				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		24/11		
				ammeter, multimeter, watt-hour meter, three phase wattmeter						25/11		
7	10-12 Oct 22	1		power factor meter, instrument transformers. Measurement of low, medium and high resistance						28/11		
	13-20 Oct 22			Sessional I Examination								
	24-28 Oct 22			DIWALI VACATION								
8	31 Oct-6 Nov 22	4	II	General Balance Equation; Circuit diagram; Phasor diagram and Advantages as well as Disadvantages and Applications of Wheat stone,				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		28/11		
				Kelvin, Max-well, Hay,						3/12	Assgn 1	
				Schering, Weinbridge Potentiometers						5/12		

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				Measurement of Inductance, capacitance using AC bridges like Anderson, Owens; DeSauty's. Shielding and earthing.							
9	7-13 Nov 22	3	III	Signal conditioning measurement meters,Electronicmultimeter, Q-meter,			. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		8|12		
				RF power and voltage measurements.					9|12	Assignment 2	
				Measurement of Energy- A.C. single phase and poly-phase induction type energy meters					9|12		
10	14-20 Nov 22	4	III	Oscilloscope: Digital storage oscilloscope – 2 and 4 channel, delay line, multiple trace, Triggering, delayed sweep			. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		12|12		
				HMI systems for SCADA,					13|12		
			IV	Frequency, and Time measurement, signal analysis. frequency counters – measurement of frequency and time interval – extension of frequency range					13|12		
				Function generators – RF signal generators – Sweep generators					16|12		
11	21-27 Nov 22	3	IV	Frequency synthesizer –wave analyzer –			. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		17|12	Assignment 3	
				Harmonic distortion analyzer – spectrum analyzer, Recent trends/developments.					19|12		
			V	What Is Telemetry? How Telemetry Works					20|12		

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12	28 Nov - 4 Dec 22	4	V	Benefits of Telemetry, Challenges.				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		20/12		
				Windows Azure: Telemetry Basics and Troubleshooting						20/12		
				Instrumenting Your App for Telemetry and Analytics						21/12		
				Software Project Telemetry						21/12		
13	5-11 Dec 22	3		Telemetry Dashboard Documentation – Mozilla				. Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition		23/12		
				Building a Scalable Geolocation Telemetry System in the Cloud using the Maps API						23/12		
				Activity Based Learning						23/12		
14	15-23 Dec 22	Sessional-II										

Pallavi Ganorkar
Subject Teacher

Mrs. Jaya Raut
Academic Coordinator

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CCOEW/ETC/ 2022-2023

Date: 27/ 07/ 2022

LESSON & TEACHING PLAN for Artificial Intelligence

Department of Electronics and Telecommunication Engineering

Faculty Name: Prof. Sakshi Khamankar | Sub:Operating System | Year : 2022-2023 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug - 12Aug	3	I	Evlolution of OS	Given task to students to find out types of OS and showing them some physical demonstration of hardware devices	"Modern Operating System" by Andrew Tatenbaum chpt. 1 , page no 7 -15 , 19-33		8/8/22		
				Types of OS				8/8/22		
2	16 Aug- 20 Aug	4		Basic hardware support necessary for modern OS		"Modern Operating System" by Andrew Tatenbaum chpt. 1 , page no 19-33		9/8/22		Rauk
				Services provided by OS				10/8/22		
				System program and system calls				12/8/22		
3	22 Aug- 26 Aug	3		Os-Structure : Layered , monolithic , microkernel , diskmanagement, space manegement & space allocation stategies	Virtual OS installation	Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10,		17/8/22 18/8/22		
								19/8/22		
4	29 Aug- 3	4		Disk arm scheduling algorithm	Seminar			19/8/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Sept			Disk arm scheduling algorithm	Seminar	pg no. 421-431		19/8/22		
5	5 sept- 9 sept	3	II	Process concepts , process control block		Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257		26/8/22 25/8/22	1st assign	
				Types of Scheduler , context switch , thread				1/9/22		
				multithreading model , goals of scheduling ,				2/9/22		
6	12 Sept- 17 Sept	4		diff. scheduling algorithms , examples for windows 2000 and linux		Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128		7/9/22 8/9/22		Rauk
7		**Sessional - I (17th Sept 2022- 23rd Sept 2022)**								
8	26 Sept- 1Oct	4	III	Contiguous allocation , relocation , paging , segmentation, segmentation with paging		Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396		12/9/22 16/9/22		
9	3Oct - 7 Oct	3		Demand paging				27/9/22 28/9/22	2nd assignment	Rauk
				page faults and instruction start				29/9/22		
				page replacemnet algo.				3/10/22		
				working sets				7/10/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date assignment date	Assignment/Tutorial Date	AC's sign
10	10 Oct - 15 Oct	4		locality , Thrashing , Garbage collection					11/10/22 12/10/22	
11	17 Oct - 21 oct	3	IV	Concurrency conditions , critical section problem		Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg no. 283-304			13/10/22 13/10/22	
				software & hardware solution, semaphores					18/10/22 21/10/22	
12	31 Oct - 5 Nov	4		conditional critical region & monitor , classical inter process communication problem					31/10/22 2/11/22 5/11/22	
13	7 Nov- 11 Nov	3	V	File concepts , access method , directory structure , recovery	C Prog	Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257 Chapter 7, pg no. 283-304			9/11/22 15/11/22	
				long structured file system, Deadlock & protection	GUI (windows)			3rd assignment	16/11/22 19/11/22	
14	14 Nov - 20 Nov	4		Deadlock charcterstics , Prevention , avoidance , detection & recovery , goals of protection , access matrix, implementation, security	(unis system properties in windows)	Opearting System Concepts by Avi Silberschatz, Galvin Chapter 14 pg no. 591-610			23/11/22 24/11/22 25/11/22	

Sub. Teacher

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CCOEW/ ETC/ 22-23

Date: 22/01/ 2023

LESSON & TEACHING PLAN for Internet of Things

Department of Electronics & TelecommunicationEngineering

Faculty Name: Asst.Prof.A.K.Tripathi					Year : 2022-23		Sem:- III	Subject Code: BEETC602T		
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	30 Jan- 4 Feb 2023	6	1	IoT definition & Characteristics, Advantages and disadvantages, IoT functional blocks, sensing , actuation , Physical design of IoT		Arshdeep Bahga, Vijay Madisetti, —Internet of Things – A hands-on approachl, Universities Press, 2015 .		02-02-23		
2	6 Feb- 10 Feb 2023	5		Logical design of IoT, Constraints affecting design in IoT .				08-02-23		
3	13 Feb- 18 Feb 2023	6	2	Introduction, Functional View, Information View, Deployment and Operational View		Arshdeep Bahga, Vijay Madisetti, —Internet of Things – A hands-on approachl, Universities Press, 2015 .		09-02-23		
4	20 Feb- 24 Feb 2023	5		Other Relevant architectural views. Real-World Design Constraints- Introduction, Technical Design constraints , IoT reference model.				15-02-23		

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5	27 Feb- 4 March 2023	6	3	Introduction, Basic Concepts, Difference between IoT and M2M, M2M Value Chains, IoT Value Chains.		From Machine-to-Machine to the Internet of Things: Introduction to a New Age of Intelligence: By Jan Holler, Vlasios Tsiatsis, Catherine Mulligan, Stefan Avesand, Stamatis Karnouskos, David Boyle, 1st Edition, Academic Press, 2014.		17-02-23		
6	6 March-10March 23	5		Machine to Machine Communication, M2M to IoT- Architecture, Design principles and capabilities.				21-02-23		
9	13 March	SESSIONAL EXAM - I								
11	20 March-24March 23	5	4	Wireless medium access issues, MAC protocol, Survey routing protocols, Sensor deployment & Node discovery.		From Machine-to-Machine to the Internet of Things: Introduction to a New Age of Intelligence: By Jan Holler, Vlasios Tsiatsis, Catherine Mulligan, Stefan Avesand, Stamatis Karnouskos, David Boyle, 1st Edition, Academic Press, 2014.		15-03-23		
12	27 March-1 April 23	6		Data aggregation & dissemination, service model, service management and security.				24-03-23		
13	3 April - 7 April 23	5	5	Introduction to different IoT tools.		Arshdeep Bahga, Vijay Madisetti, —Internet of Things – A hands-on approachl, Universities Press, 2015 .		29-03-23		
14	10 April - 15 April 23	6		Introduction to Arduino and Raspberry Pi & Its Programming.				01-04-23		
15	17 April - 21 April	5		Case Study on Health care and Agriculture				05-04-23		
17	24 April -	SESSIONAL EXAM - II								

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[Prof. A. K. Tripathi]

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CCOEW/ ETC/ 22-23 Date: 22/01/ 2023

LESSON & TEACHING PLAN for Database Management Systems

Department of Electronics & TelecommunicationEngineering

Faculty Name: Asst.Prof.A.K.Tripathi | Year : 2022-23 | Sem:- III | Subject Code: BEETC604PE

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	30 Jan- 4 Feb 2023	6	1	Approaches to building a database, Three Schema architecture of database, Challenges in building a DBMS.		1. Database system concepts by Avi Silberschtz, Henry F Korth, S Sudarshan, Tata McGraw Hill 2. Fundamental of Database systems – Elmasiri and Navathe Addison Wesley 2000 Systems – C J Date, A Kannam, S Swamynathan, 8th edition		02-02-23		
2	6 Feb- 10 Feb 2023	5		DBMS architecture, Various components of DBMS, Types of Data models.				06-02-23		
3	13 Feb- 18 Feb 2023	6		Concepts of Relation, Schema-instance Distinction, keys, referential integrity and foreign keys, Relational algebra operators, Tuple Relational calculus, Domain relational calculus		1. Database system concepts by Avi Silberschtz, Henry F Korth, S Sudarshan, Tata McGraw Hill		08-02-23		

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4	20 Feb- 24 Feb 2023	5	2	Physical and Logical hierarchy : Concept of index, B trees, hash index, function index, bitmap index, concepts of functional dependency , normalization (1NF, 2NF, 3NF, BCNF etc)		2. Fundamental of Database systems – Elmasiri and Navathe Addison Wesley 2000 Systems – C J Date, A Kannam, S Swamynathan, 8th edition		14-02-23		
5	27 Feb- 4 March 2023	6	3	Query processing and optimization process, measures of query cost estimation in query optimization.		1. Database system concepts by Avi Silberschtz, Henry F Korth, S Sudarshan, Tata McGraw Hill		16-02-23	9	
6	6 March- 10March 23	5		pipelining and materialization, structures of query evaluation plans		2. Fundamental of Database systems – Elmasiri and Navathe Addison Wesley 2000 Systems – C J Date, A Kannam, S Swamynathan, 8th edition		20-02-23		Kam
9	13 March-			Transaction Concepts SESSIONAL EXAM - I						
11	20 March- 24March 23	5	4	Wireless medium access issues, MAC protocol, Survey routing protocols,		concepts by Avi Silberschtz, Henry F		23-02-23		
12	27 March- 1 April 23	6		Transaction concepts, properties of transactions, Serializability of transactions, testing of serializability, system recovery, Two phase commit protocol.		2. Fundamental of Database systems – Elmasiri and Navathe Addison Wesley 2000 Systems – C J Date, A Kannam, S Swamynathan, 8th edition		09-03-23	9	Kam

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13	3 April - 7 April 23	5	5	Recovery and Atomicity, log based recovery, concurrent execution of transactions, Locking mechanisms, solotion to concurrency related problems, deadlock, Isolation		1. Database system concepts by Avi Silberschtz, Henry F Korth, S Sudarshan, Tata McGraw Hill 2. Fundamental of Database systems – Elmasiri and Navathe Addison Wesley 2000 Systems – C J Date, A Kannam, S Swamynathan, 8th edition		04-04-23		
14	10 April - 15 April 23	6		Failure classification, recovery and atomicity, log based recovery, check points, buffer management, advanced recovery techniques.				17-04-23		
15	17 April - 21 April 23	5		Web databases, Distributed databases, Data warehousing, Data Mining, Data security, NOSQL databases.				21-04-23		
17	24 April - 29 April	SESSIONAL EXAM - II								

Prof.A.K.Tripathi
(Faculty InCharge)

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[illegible] /ETC/ 22-23

LESSON & TEACHING PLAN for Microwave & RADR Engineering

Department of Electronics & TelecommunicationEngineering

Faculty Name: Dr. Jaya Gadge | Year : 2022-23 | Subject Code: [illegible]

Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity	Reference Book – Chapter no. Page no.,edition.	Completion Date	Assignment/ Tutorial Date	HOD Sign
1	23 JAN–27 JAN 23	5		Skil Development Workshop			25 - 27		
II	30 JAN– 3 FEB 23	5	II	Introduction of Microwave, signals ,range and Tubes,High Frequency limitations of conventional tubes,Two Cavity and multi cavity Klystrons Structure and working with numericals	Will Show the conventional tubes and microwave tubes	Microwaves and Radar Engg. By M.Kulkarni Page no. 247 - 338			
2	6 FEB–10 FEB 23	5		Reflex Klystrons, slow–wave structure, TWT with Numericals and Derivation					
3	13 FEB – 17 FEB 23	5		BWO Backward wave oscillator, Magnetron oscillator and its types	explain with existing Klystron				
4	20 FEB – 24 FEB 23	5	III	Introduction of Microwave Components, introduction to rectangular waveguide & waveguide excitation, Principles of S-parameters, S parameters for multi-ports (2-port, 3-port, 4-port etc.)	Power measurement using Reflex Klystron with variation by practically	By M.Kulkarni			

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5	6 MAR-10 MAR 23	5	II	properties of S-matrix, Derivation ,waveguide Tees (E, H, E-H planes), Directional Couplers, matched terminations,Microwave attenuators,Slotted line, Ferrite devices, Circulators, Isolators, gyrators.	Will show all the component of microwave also take power measurement	(Page no. 199-260)	
7	13 MAR-18 MAR	5	SESSIONAL - I				
8	20 MAR-25 MAR 23	6	III	Solid State Microwave Devices,Parametric amplifiers, PIN diodes, Transferred Electron devices: Gunn djode,Avalanche diode, Transit Time devices like IMPATT, TRAPATT diodes.	NPTEL Lectures	. By M.Kulkarni (Page no. 369-436)	
9	27 MAR - 04 APRIL 23	6	V	radar range equation, factors influencing maximum range,Numericals based on Radar range Equation ,effects of noise, Pulsed radar systems.	Will show target detection using CW RADAR	Microwave and Radar Engg. By M.Kulkarni (Page no. 513-545)	
11	06 APRIL-10 APRIL 23	5	VI	Antennas and scanning, display methods, moving target indication, radar beacons, CW Doppler radar,FM CW phased array radars, applications of radar	will practically show the working of antenna's with radiation pattern	Microwave and Radar Engg. By M.Kulkarni (Page no. 545-570)	
12	13 APRIL - 18 APRIL	6					

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	23								
13	20 APRIL - 21 APRIL 23	2	IV	Microwave measurement: Introduction to microwave measurements, definition and measurement methods of frequency,power, attenuation VSWR, impedance, insertion loss, dielectric constant, Q of a cavity resonator, phase shift.	Will practically perform all the measurement parameter	Microwave and Radar Engg. By M.Kulkarni(Page no. 261-296)			
15	24 APRIL - 29 APRIL 23	SESSIONAL - II							

Dr. Jayaram

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CCOEW/ETC / 22-23

LESSON & TEACHING PLAN for Television & Video Engineering

Department of Electronics & Tele Communication Engineering

Faculty Name: Dr. Kanchan Wagh | Sub: Data Compression & Encryption | Year : 2022-23 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	08th Aug - 12th Aug	1	1	Shannon Fano Coding		Digital Communication by J.S.	08/08/22		
		2		Shannon Fano Coding		Digital Communication by J.S.	08/08/22		
		3		Shannon Fano Coding		Digital Communication by J.S.	08/08/22		
		4		Huffmann coding		Digital Communication by J.S.	22/08		
		5		Huffmann coding		Digital Communication by J.S.	22/08		
2	16 th Aug - 20th Aug	6		Huffmann coding		Digital Communication by J.S. Chittode	23/08	Assignment 1 (04/19/21)	
		7		Arithmetic coding and dictionary		Data Compression Methods by	23/8		
		8		Arithmetic coding and dictionary		Data Compression Methods by			
		9		Arithmetic coding and dictionary		Data Compression Methods by			
		10		family algorithms		Data Compression Methods by	26/08		
		11		family algorithms		Data Compression Methods by			
3	22nd Aug- 26th Aug	11		Entropy measures of performance and		Data Compression Methods by	29/08		
		12		Entropy measures of performance and		Data Compression Methods by	15/09		Kanch 01/22
		13	2	AUDIO COMPRESSION		Indtroduction to Data			
		15		Digital Audio		Indtroduction to Data	26/09		
4	29th Aug- 03rd Sept	16		Lossy sound compression		Indtroduction to Data	26/09		
		17		Lossy sound compression		Indtroduction to Data	03/10		
		18		μ-law and A-law companding		Indtroduction to Data	03/10		
		19		μ-law and A-law companding		Indtroduction to Data	71		
		20		DPCM and ADPCM audio compression		Indtroduction to Data	04/10		
		21		DPCM and ADPCM audio compression		Indtroduction to Data			
5	05th Sept- 9th Sept	22		DPCM and ADPCM audio compression		Indtroduction to Data Compression by Khalid Sayood	07/10	Assignment 2 (24/09/21)	
		23	3	IMAGE AND VIDEO COMPRESSION		Data Compression Methods by			
		24		Lossless techniques of image		Data Compression Methods by	10/10		
		25		gray codes		Data Compression Methods by			
		26		Two dimensional image transforms,		Data Compression Methods by			

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Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
6	12th Sept-17th Sept	27		Two dimensional image transforms,		Data Compression Methods by	14/10		
		28		JPEG,		Data Compression Methods by	14/10		
		29		JPEG 2000,		Indtroduction to Data	17/10		
		30		Predictive Techniques PCM and DPCM		Indtroduction to Data	17/10		
		31		Predictive Techniques PCM and DPCM		Indtroduction to Data	18/10		
7	19th Sept-			Sessional I Examination					
8	26th Sept-01st Oct	32	3	Video compression		NPTEL LECTURE NOTES,			
		33		MPEG industry standard.		NPTEL LECTURE NOTES,			
		34	4	CONVENTIONAL		NPTEL LECTURE NOTES,	13/10		
		35		Types of attacks		Indtroduction to Data			
		36		Steganography		Indtroduction to Data			
		37		Data Encryption Standards,		Indtroduction to Data			
9	03rd Oct-07th Oct	38		Data Encryption Standards,		Indtroduction to Data			
		39		Block Cipher Principle		Compression by Khalid Sayood	19/10	Assignment 3 (22/10/21)	
		40		Block Cipher Principle		Indtroduction to Data			
		41		S-box design		Indtroduction to Data	20		
		42		triple DES with two three keys.		NPTEL LECTURE NOTES,			
10	10th Oct-15th Oct	43	5	PUBLIC KEY ENCRYPTION AND NUMBER		NPTEL LECTURE NOTES,			
		44		Chinese remainder theorem		Data Compression Methods by	22/10		
		45		Principles of public key cryptography		Data Compression Methods by			
		46		Principles of public key cryptography		Data Compression Methods by			
		47		RSA algorithm		Data Compression Methods by			
		48		RSA algorithm		NPTEL LECTURE NOTES,			
11	17th Oct-21st Oct	49		Diffie-Hellman Key Exchange		NPTEL LECTURE NOTES,	3/11		
		50		Diffie-Hellman Key Exchange		NPTEL LECTURE NOTES,	3/11		
		51		Elliptic curve cryptology		Data Compression Methods by			
		52		Elliptic curve cryptology		Data Compression Methods by	4/11		
		53		message authentification		Data Compression Methods by			
12	31st Oct-5th Nov	54		message authentification		Data Compression Methods by	4/11		
		55		Hash functions,		DIFFERENT PAPERS AVAILABLE			
		56		Hash functions,		NPTEL LECTURE NOTES,	4/11		
		57		Hash and Mac algorithms		Data Compression Methods by			
		58		Digital signatures		Data Compression Methods by			
		59	6	SYSTEM SECURITY & CASE		Data Compression Methods by	5/11		
13	07th Nov-11th Nov	60		Viruses, Worms		Data Compression Methods by			
		61		firewall design		Data Compression Methods by	5/11		
		62		antivirus techniques,		Data Compression Methods by	4/11		
						Data Compression Methods by	14/11		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
13	07th Nov-11th Nov	63		digital Immune systems		Data Compression Methods by	15/11		
		64		Certificate based & Biometric		Data Compression Methods by	24/11		
14	14th Nov-19th Nov & 21st Nov-25th Nov	65		Secure Electronic Payment System.		Data Compression Methods by	28/11		
		66		Revision & MCQ test on unit 1		Revision	5/12		
		67		Revision & MCQ test on unit 2		Revision			
		68		Revision & MCQ test on unit 3		Revision			
		69		Revision & MCQ test on unit 4		Revision			
		70		Revision & MCQ test on unit 5		Revision			
15	28th Nov-3rd Dec	Sessional II Examination							

Dr. Kanchan Wagh

(Faculty In Charge)

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:COEW/ ETC/ 22-23 Date: 22/08/ 2022

LESSON & TEACHING PLAN for Digital System Design

Department of Electronics & TelecommunicationEngineering

'aculty Name: Asst.Prof.A.K.Tripathi					Year : 2022-23		Sem:- III	Subject Code: BEETC303T		
WEE K No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	22 Aug-26 Aug 22	5		Skill Development Workshop						
2	29 Aug-03 Sept 22	6	1	Introduction, Syllabus Discussion,Number System, Boolean Algebra		1.Morris Mano : "An approach to digital Design", Pearson Publications. 2.R. P. Jain : "Modern digital		02-09-22		
3	05 Sept- 09 Sept 22	5		Logic Gates and their truth tables, D Morgan's Laws, k-map representation (SOP & POS forms).				21-09-22		

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4	12 Sept- 17 Sept 22	6		for min-terms and maxterms (upto 5 variables), Introduction of logic families based on characteristics -Speed		electronics", TMH Publications		22-09-22		
5	19 Sept- 23 Sept 22	5	2	Arithmetic Circuits, Adders and their use as substractor, ALU, Digital Comparator, Parity generators/checkers.		1.Morris Mano : "An approach to digital Design", Pearson Publications. 2.R. P. Jain : "Modern digital electronics", TMH Publications		26-09-22		
6	26 Sept - 01 Oct 22	6		combinational logic designs, multiplexer trees, Demultiplexers, Encoders & Decoders. BCD - to – 7 segment decoder, Code converters.				01-11-22		
7	03 Oct - 07 Oct 22	5	3	1 Bit Memory Cell, Clocked SR, JK, MS J-K flip flop, D and T flip-flops. Use of preset and clear terminals.		1.Morris Mano : "An approach to digital Design", Pearson Publications. 2.R. P. Jain : "Modern digital electronics", TMH Publications		04-11-22		
8	10 Oct - 12 Oct 22	6		Excitation Table for flip flops, Conversion of flip flops, Registers, Shift registers.				14-11-22		
9	13 Oct - 20 Oct			SESSIONAL EXAM - I						
10	24 Oct - 29 Oct 22			DIWALI VACATION						
11	31 Oct - 05 Nov 22	6	4	Counters (ring counters, twisted ring counters)		1.Morris Mano : "An approach to digital Design", Pearson Publications		21-11-22		
12	07 Nov - 11 Nov 22	5		Sequence Generators, ripple counters, up/down counters.				30-11-22		

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13	14 Nov - 19 Nov 22	6		Synchronous counters, lock out.		2.R. P. Jain : "Modern digital electronics" , TMH Publications		02-12-22			
14	21 Nov - 25 Nov 22	5	5	Introduction to Intel's 8085, Architecture-descriptio		Ramesh Gaonkar : " Microprocessor Architecture, Programming and Applications with the 8085", Penram International Publications.		08-12-22			Rank
15	28 Nov - 03 Dec 22	6		Addressing Modes. 8085 instruction set.				09-12-22			
16	05 Dec - 09 Dec 22	5		Concept of assembly language programming, Interr				22-12-22			Rank
17	15 Dec - 23 Dec 22			SESSIONAL EXAM - II							

Prof.A.K.Tripathi
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LESSON & TEACHING PLAN for Advanced Digital System Design

Department of Electronics & TelecommunicationEngineering

Faculty Name: Prof. Anand Deshkar | Year : 2022-23 | Subject Code: BEETE704T

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug-12Aug 22	5	I	Introduction to digital system design:Development Flow,HDL,VHDL In	Will show Xilinx Kit & FPGA	Duglas Perry(Chapter no. 1&2 page no.1-4)Brown & Varensic	20/8/22		
2	16 Aug-20 Aug22	6	II	Basic language constructs of VHDL:skeleton & syntax of VHDL Program,elements & program format,objects,data type & operators,concurrent signal assignments		Duglas Perry(Chapter 1,Page 5,Chapter2 Page no. 73-102)	26/8/22 8/9/22 13/9/22		
3	22 aug- 26 aug 22	5	II	Basic language constructs of VHDL:Combinational versus sequential circuits,signal assignment		Duglas Perry(chapter no.3,page no.42-64)	28/9/22		
4	29 aug- 3 sept 22	6	III	Subprogram: Functions,Procedures,attributes,generic,generate, package,IEEE standard logic library,file I/O		Duglas Perry(chapter no.5 &6,page no. 109-170)	6/10/22 10/10/22		

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5	5 Sept-9Sept 22	5		Subprogram:test bench,component declaration,instantiation,configurationFinite State Machine: Overview of FSM		Duglas Perry(chapter 14,page no.330-340Chapter 7,page no.174-180)		
6	12Sept-17 sept 22	6	IV	FSM representation,moore machine versus mealy machine,VHDL representation of FSM,state assignment,some FSM		Brown & Varensic	3/11/22	
7	17 sept-23 sept 22			SESSIONAL - I			11/11/22	
8	26 sept- 1 oct 22	6	IV	Analysis of asynchronous sequential circuit-flow table reduction-races-state assignment-transition table and problems in transition table		Brown & Varensic	14/11/22	
9	3Oct-7Oct 22	6	V	HDL Synthesis;The synthesis concept,timing analysis of logic circuits,efficient coding styles,combinational logic synthesis,partitioning for synthesis		Duglas Perry(chapter 9,page 232-247)	23/11/22	
10	10 Oct -15 Oct 22	6	VI	Pipelining,Resource sharing,optimising arithmetic expressions,power analysis of FPGA based system			23/11/22	
				Device technologies,system representation,levels of abstraction,development task & EDA		Brown & Varensic		

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11	17 Oct-21Oct 22	5	I&VI	software,Programmable Logic devices: Introduction to place &route process,architecture of CPLD,FPGA XILINX 4000 SERIES,Overview of PLDs,CPLD,FPGA			24/11/22	
12	31Oct- 5 Nov 22	6	VI	Design examples: ALU,barrel shifter,4*4 keyboard scanner,multiplier		Duglas Perry(Chapter 13-page no.306-307 chapter 10 page no.264)	29/11/22	
13	7 Nov- 25 Nov	Revision						
14	28 Nov-3Dec 22	SESSIONAL - II						

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CCOEW/ ETC/ :

LESSON & TEACHING PLAN for Wireless & Mobile Communication

Department of Electronics & Telecommunication Engineering

Faculty Name: Prof. Anand Deshkar | Year : 2022-23 | Semc- VIII | Subject Code: BEETE81ST

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	30 Jan- 4 Feb23	6	I	Evolution of mobile radio comm. cellular telephone sys, freq reuse, channel assignment & handoff				Theodore Rappaport(chapter1, 1-4, chapter 3,pg 57-76)		6/2/23 7/2/23		
2	6Feb - 11Feb23	5	II	Trunking and grade of service, improving capacity in cellular system, causes of propogation path loss, causes of fading long & short term, definition of sample average, statistical average, probability distribution				Theodore Rappaport(chapter3, pg 77-93, chapter 5, pg 177- 209)		15/2/23 16/2/23 15/3/23		
3	13 Feb- 18 Feb 23	6	II	level crossing rate and average distribution of fade, delay spread, coherence bandwidth,				Theodore Rappaport(chapter 5, pg 177-209)		23/3/23		
4	20 Feb-25 Feb23	5	III	fundamentals of equalization, space polarization, frequency & time diversity techniques				T. Rappaport(chapter 7, pg 350-390)		27/3/23 28/3/23		

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5	27 Feb-4 Mar23	6	III	space diversity, polarization diversity, fundamentals of channel coding				T Rappaport(chapter 7, pg 350- 390)		11/4/23		Rauk
6	6 Mar -11 Mar23	4	IV	Global system for Mobile services & features, GSM system architecture, GSM radio subsystem, GSM channel type, GSM frame structure				T Rappaport(Chap 11 pg 549- 563)				
7	20 Mar - 25Mar23	4	IV	Signal processing in GSM, Introduction to CDMA digital cellular standard, 3rd generation wireless networks, 3G technologyl						Notes given		
8	13 Mar- 18 Mar 23			Sessional I								
9	27 Mar- 1 April 23	5	V	Difference between wireless & fixed telephone networks, development of wireless network traffic routing in wireless network				T Rappaport (chap 10, pg 491-505)		Notes given		
10				RETEST								
11	3 April-8 April 23	2	V	mobile ip & wireless access protocol, operation of mobile ip,collocated address, registration				T.Rappaport,Jochen Schiller		Notes given		
				Tunneling, WAP				T.Rappaport				

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12	10 April-15 April 23	5	V&VI	architecture,WML script, WAP service, WAP session protocol, Infrared LANs, Spread spectrum LANs, narrow bank microwave LANs				,Jochen Schiller		Notes given		
13	17 April-21 April 23	5	VI	IEEE 802 protocol, architecture, services, 892.11 medium access control, 802.11 physical layer Wireless application protocol, architecture,				T Rappaport (chapter2, pg 25-55)				
14	24 April-29 April 23	Sessional II										
15												

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LESSON & TEACHING PLAN for Electromagnetic Waves

Department of Electronics & TelecommunicationEngineering									
Faculty Name: Prof. Anand Deshkar				Year : 2022-23		Subject Code: BEETC502T			
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug-12Aug 22	5	I	basics of vectors, coordinate system		Fundamentals of EM Field by A.U.Tinguria	22/8/22		
2	16 Aug-20 Aug22	6	II	concepts of differential surface & differential volume, coulumbs law		Fundamentals of EM Field by A.U.Tinguria	29/8/22		
3	22 aug- 26 aug 22	5		gauss law, divergence theorem, gradient, curl		Fundamentals of EM Field by A.U.Tinguria	8/9/22 13/9/22		
4	29 aug- 3 sept 22	6	III	basics of magnetic field, biot savert law, ampere circuital law		Fundamentals of EM Field by A.U.Tinguria	26/9/22		

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5	5 Sept-9Sept 22	5		Stokes theorem, maxwell equations for time constant field & time varying field		Fundamentals of EM Field by A.U.Tinguria	12/10/22
6	12Sept-17 sept 22	6	~~IV~~ III	electromagnetic wave equation, wave propogation in free space, perpect dielectric & perfect conductor		Fundamentals of EM Field by A.U.Tinguria	18/10/22
7	17 sept-23 sept 22		SESSIONAL - I				
8	26 sept- 1 oct 22	6	~~IV~~ III	skin effect, poyinting vector, poyinting theorem, snells law		Fundamentals of EM Field by A.U.Tinguria	5/11/22
9	3Oct-7Oct 22	6	V	Brewster angle, TIR, retarded potential, radiation from Hertz dipole, its field equations		EM Waves & radiating systems by Jordan & Balmain	14/11/22
10	10 Oct -15 Oct 22	6	V	induction field, radiation field, total power radiated & equation of radiation resistance, basics of antenna , terminologies			25/11/22
			V & IV	fundamentals of antenna arrays, basics of waveguide & its types, comparison of		EM Waves & radiating systems by Jordan & Balmain	30/11/22

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	21Oct 22	5	I&VI	rectangular waveguid with transmission line , TM & TEM waves, field equations		Balmain	30/11/22		
12	31Oct- 5 Nov 22	6	IV	modes in rectangular waveguides, various losses, cutoff frequency & wavelength, phase & group velocities, guide wavelength, wave		EM Waves & radiating systems by Jordan & Balmain	30/11/22		
13	7 Nov- 25 Nov	Revision							
14	28 Nov- 3Dec 22	SESSIONAL - II							

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CCOEW/ETC / 20-21

Date: 10/ 03 / 2022

LESSON & TEACHING PLAN for ANALOG SYSTEM DESIGN

Department of Electronics & Tele Communication Engineering

Faculty Name: ~~Prof.S.Bhattacharya~~ A.S.Deshkar | Sub: ANALOG SYSTEM DESIGN | Year : 2021-23 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	20th Mar to 24th Mar	4	1	Introduction of OP-Amp		Op-Amps and Linear Integrated Circuits by Ramakant A.Gaikwad, Fourth Edition 2008 Chapter No 1, Page no 17to 37				
				Basic differential amplier & operation						
				Basic differential amplier & operation						
				Op amp parameters						
				Ideal op amp and equivalent circuit						
				voltage transfer curve				27/3/23		
2	27th Mar to 1st April	5		inverting and Non inverting configuration and Design						
				Inverting and non inverting configuration & design					Assignment 1	
				Numerical						Rally
				Numerical						
				Numerical				5/4/23		
3	3rd Apr to 7th Apr	4	2	Numericals		Op-Amps and Linear Integrated Circuits by Ramakant A.Gaikwad, Fourth Edition 2008 Chapter No 8, Page no 330to 395				
				Voltage follower, Summing amplifier						
				Scaling and Averaging amplifier						
				Instrumentation amplifier and applications				15/4/23		
4	10th Apr to 15th Apr	5		Integrator, Differentiation						Rally
				Current to voltage converter						
				Voltage to current converter				3/5/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Peak detector						
				Log and antilog amplifier				2/5/23		
5	17th Apr to 22nd Apr	4	2&3	Analog multiplier		Op-Amps and Linear Integrated Circuits by Ramakant A.Gaikwad, Fourth Edition 2008 Chapter No 8, Page no 330to 395		5/5/23		
				Numerical						
				Numerical						
				Numerical						
				Comparator circuit						
				Schmitt Trigger						
6	18th Apr to 22nd Apr	5		Precision rectifier						
				Multivibrators						
				Bistable,Monostable,Astable using opamp						
				Bistable,Monostable,Astable using opamp				11/5/23		
8	1st May to 6th May	6		sample and Hold circuit, 555 timer and its applications, Phase Lock loop				15/5/23		
7	25th April to 28th April	Sessional I Examination								
9	~~8th May to 13th May~~ 29th May	6	3&4	Numerical		Op-Amps and Linear Integrated Circuits by Ramakant A.Gaikwad, Fourth Edition 2008 Chapter No 8, Page no 330to 395				
				Numerical						
				Numerical					Assignment 2	
				Unregulated DC power supply system with rectifier						
				Unregulated DC power supply system with Filters				29th May		
10	~~15th May to 20th May~~	6		Design of Series voltage regulators						
				Design of Series voltage regulators						
				Design of regulator using IC 78**						
				Design of regulator using IC 78**						
11	22nd May	6		Design of regulator using IC 79**		Op-Amps and Linear Integrated Circuits				
				Design of regulator using IC 79**						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	to 31st May	6	4	Protection circuit for regulators		Integrated Circuits by Ramakant A.Gaikwad, Fourth Edition 2008 Chapter No 9, Page no 396to 490				
				Design of SMPS (Buck&Boost)						
				Design of SMPS (Buck&Boost)						
12	29th May to 31st May	2		Numerical					Assignment 3	
				Numerical				29/5/23		
				Numerical						
				Numerical						
13	18 May to 24 May			OPAMP based Wein Bridge and phase shift oscillators		Op-Amps and Linear Integrated Circuits by Ramakant A.Gaikwad, Fourth Edition 2008 Chapter No 7, Page no 265to 329		19/5/23		
				OPAMP based Wein Bridge and phase shift oscillators						
				Transistorized Hartley & Colpitts oscillator.				23/5/23		
				Transistorized Hartley & Colpitts oscillator.						
				Crystal Oscillator				25/5/23		
14	25 May to 29 May			Design of Butterworth Active filters						Rauk
				LPF						
				HPF						
				BPF						
				BRF						
				Numerical				26/5/23		
15	30th May to 31st May			Numerical		Op-Amps and Linear Integrated Circuits by Ramakant A.Gaikwad, Fourth Edition 2008 Chapter No 7, Page no 265to 329		26/5/23		
				Numerical						
				Revision						
				Revision						
				Revision						
15		SESSIONAL II EXAMINATION								

Prof. A. S. Deshkar
faculty

Prof. J. Raut
AC

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Academic year

2021-22

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CCOEW/ ETC/ 21-22

Date: 17/08/ 2021

LESSON & TEACHING PLAN for Antenna And Wave Propagation

Department of Electronics & TelecommunicationEngineering

Faculty Name: Dr. Kanchan Wagh | **Year : 2021-22** | **Sem:- V** | **Subject Code: BEETE501T**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	23 Aug - 27 Aug 21	5	I	Transmission line equations and their solution , transmission line parameters, characteristics impedance,	AWP_ppt_01		Practical examples of TL	Antenna and Wave propagation, - K.D. Prasad, Satya Prakashan		23/8/21		
										24/08/21		
										25/08/21		
										26/08/21		
2	30 Aug - 4 Sept 21	6		propagation constant, attenuation constant and phase constant, waveform distorion ,						27/08/21		
										30/08/21		
										31/08/21		
										01/09/21		
										02/09/21		
										03/09/21		
3	6 Sept- 09 Sept 21	4		distortionless transmission lines, loading of transmission lines, reflection coefficent and VSWR,			NPTEL Lecture			04/09/21		
										06/09/21		
										07/09/21		
										08/09/21		
										09/09/21		
	13 Sept- 18 Sept 21	6		Equivalent circuits of transmission lines, transmission lines at radio frequency, open and short circuited lines,smith chart, stub matching.						14/09/21		

14/9/21

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5	20 Sept-24 Sept 21	5	II	Infinitesimal dipole, its radiation field, radiation resistance, radiation sphere, near field	AWP_ppt_02			Antenna Theory analysis and design – Costantine A. Balanis, John Wiley publication		
	27 Sept - 2 Oct 21	6	II	, far field directivity, small dipole, finite length dipole, half wave length dipole, linear elements near or on infinite perfect conductors, ground effects and their application, folded dipole						
	4 Oct - 9 Oct 21			**SESSIONAL - I**						
6	11 Oct - 16 Oct 21	6	II	Small loop, comparisons of small loop with magnetic dipole, radiation pattern its parameters and their application				Antenna Theory analysis and design – Costantine A. Balanis, John		
8	18 Oct - 22 Oct 21	5	III	Linear arrays, planer arrays and circular arrays. Array of two isotropic point sources, non – isotropic sources, principle of pattern multiplication, linear arrays of n elements	AWP_ppt_03			Antenna Theory analysis and design – Costantine A. Balanis, John Wiley publication		
9	25 Oct - 30 Oct 21	6	III	broadside, End fire, radiation Pattern, directivity, Beam width and null directions, array factor, Antenna analysis using Dolph-Tschebyscheff, the Log-periodic antenna, the composite Yagi-Uda-Corner-Log-Periodic array	AWP_ppt_04		NPTEL Lecture	Antenna Theory analysis and design – Costantine A. Balanis, John Wiley publication		

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10	8 Nov - 12 Nov 21	5	IV	Radiation Mechanism of Microstrip antenna, feeding methods, methods of analysis, Multiband Microstrip antenna for Mobile Communication,	AWP_ppt_05		Tutorial	Antenna Theory analysis and design – Costantine A. Balanis, John Wiley publication
11	15 Nov - 20 Nov 21	6	V	Circularly Polarized Patch antenna, Rectangular & circular patch, Circular polarization and feed network.	AWP_ppt_05			Antenna Theory analysis and design – Costantine A. Balanis, John Wiley publication
12	22 Nov - 26 Nov 21	6		Simple reflectors, the design of a shaped Cylindrical reflector, Radiation patterns of Reflector Antennas, Dual shaped Reflector Systems Plane reflector, Corner reflector, horn antenna, aperture antenna.				
13	29, 30 Nov 21	2	VI	Reciprocity in antenna Measurements, Near-Field & Far-Field, Co-ordinate System, Sources of Error in antenna measurements, measurement ranges, measurement of different antenna Parameters, antenna ranges, radiation pattern, Gain and directivity, Polarization	AWP_ppt_06		Will take extra lectures to complete the syllabus as the syllabus is very vast.	Antenna Theory analysis and design – Costantine A. Balanis, John Wiley publication
14	1-Dec-8 Dec 21	SESSIONAL - II						

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CCOEW/ETC 21-22 | Date: 20/08/2021

LESSON & TEACHING PLAN for Industrial Economics and Entrepreneurship Development

Department of E & TC

Faculty Name: Dr. Priyadarshini Ramteke | Sub:Industrial Economics and Entrepreneurship Development | Sec: | Year : 2021-22 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	16 - 21 August	0		**Skill Development**								
2	23-28 August	4	I	Industrial Economics: Introduction						23/8/2021		
				Types of Business structures: Sole Proprietorship						25/8/2021		
				Partnership						26/8/2021		
				Corporation						27/8/2021		
3	30 August - 4 Sept	4		Company						30/8/2021		
				Difference between Public and Private Company						1/9/2021		
				Top and Bottom Line of the organization						2/9/2021		
				Economic Analysis						3/9/2021		
4	6 - 11 Sept	4		Economic Prudence & Economies of Operation						4/9/2021		
				Revision and university questions						6/9/2021		
			II	Costing						8/9/21	8/9/21	

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VEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
			II	Market Structures						9/9/21		
5	13 - 18 Sept	4		Perfect Competition						16/9/21		
				Monopolistic Competition & Monopoly						17/9/21		
				Oligopoly						18/9/21		Rau
				Pricing Strategies						19/9/21		
6	20 - 25 Sept	4		Business integration						24/9/21		
				Economies and Diseconomies of Scale & Optimum Size of the firm						27/9/21		
				LPG Policy						29/9/21		
				Business Cycles						30/9/21		
7	20 - 25 Sept	4	III	Functions of Central Bank						13/10/21		
				Functions of Commercial Banks						18/10/21		Rau
				Foreign Direct Investment						22/10/21		
				Free Trade Vs. Protection						21/10/21		
8	27 Sept - 2 Oct	4		Capital Formation						20/10/21		
				Inflation: Types and Causes						25/10/21		
				Inflation: Control and Effects						28/10/21		

Ramteke

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EEK lo.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
				Deflation and Stagnation						29/10/21		Rank
9	4 - 9 Oct			**Sessional I**								
10	11 - 16 Oct	4	III	Public Private Partnership						30/10/21		
				Inclusive Growth						30/10/21		
			V	Sources of finance						8/11/21 10/11/21		
				Venture Capital and Angel Funding						11/11/21		
11	18 - 23 Oct	4		Capital Structure						17/11/21		
				Working Capital						15/11/21		
				Break Even Analysis						23/9/21		
				Network Analysis Techniques: PERT/CPM						20/11/21		Rank
12	25 - 30 Oct	4	VI	Taxation						18/11/21 19/11/21		
				Small Scale Industries: Features and Problems						24/11/21		
				Sickness in SSIs						25/11/21		
				Technical Consultancy Organizations						22/11/21		
13	1 - 6 Nov			**Diwali Vacation**								
			VI	Government Policies to SSIs						26/11/21		Rank
				Tax Benefits and other Incentives to SSIs						20/11/21		

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VEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
14	8 - 13 Nov	4	IV	Entrepreneurship Meaning and Concept								
				Factors affecting entrepreneurship growth								
				Motives influecing entrepreneurship								
15	15 - 20 Nov	4	IV	Project formulation								
				Product Development								
				Market Survey and Research						SEMINAR		
16	22 - 27 Nov	4	IV	Demand forecasting Techniques								
				Techono-economic feasibility assessment								
				Preparation of Project Report								
				Sources of information								
17	29-30 Nov	2		Question Papers/Out of Syllabus topics								
18	1 - 8 Dec	Sessional II										

Sub. Teacher

AC

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CCOEW/ ETC/ 20-21

Date: 10/03/ 2022

LESSON & TEACHING PLAN for Microwave & RADR Engineering

Department of Electronics & TelecommunicationEngineering

Faculty Name: Asst.Prof. A.K.TRIPATHI | **Year : 2021-22** | **Sem:- IV** | **Subject Code: BEETC-407T**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10 Mach-12 March 22	3		Skill Development Workshop						
2	14 Mach-19 March 22	6	I	Skill Development Workshop, Introduction to Java	Eclipse IDE 2021-12	Herbert Scheldt, "Java the complete reference", McGraw Hill, Osborne, 7th Edition, 2011.		14-03-22		
3	21 Mach-26 March 22	5		Features of Java, Byte Code and Java Virtual Machine, JDK, Data types, Operator, Control Statements – If , else, nested if, if-else ladders				22-03-22 24-03-22 25-03-22 29-03-22 31-03-22		
4	28 Mach-02 April 22	6		Switch, while, do-while, for, for-each, break, continue, Methods.				01-04-22 05-04-22 27-04-22 08-04-22		

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5	04 April- 09 April 22	5	II	Class, Object, Object reference, Constructor, Constructor Overloading, Method Overloading, Recursion, Passing and Returning	Eclipse IDE 2021-12	Herbert Scheldt, "Java the complete reference", McGraw Hill, Osborne, 7th Edition, 2011. T. Budd, "Understanding Object- Oriented Programming with		12-04-22 19-04-22		
6	11 April- 16 April 22	6		new operator, this and static keyword, finalize() method, Access control, modifiers, Nested class, Inner class, Anonymous inner class, Abstract class.				21-04-22 22-04-22 26-04-22 29-04-22		
7	18 April- 23 April 22	5	III	Use of Inheritance, Inheriting Data members and Methods, constructor in inheritance, Multilevel Inheritance – method overriding,	Eclipse IDE 2021-12					
8	25 April- 30 April 22	6		Handle multilevel constructors – super keyword, Stop Inheritance - Final keywords.		Herbert Scheldt, "Java the complete reference", McGraw Hill, Osborne, 7th Edition, 2011.				
9	02 May- 07 May 22	6		SESSIONAL-1						
10	09 May- 14 May 22	5	IV	Interface: Interfaces vs. Abstract classes, defining an interface, implement interfaces, accessing implementations through interface references, extending interface.	Eclipse IDE 2021-12	Herbert Scheldt, "Java the complete reference", McGraw Hill, Osborne, 7th Edition, 2011.				
11	16 May- 21 May 22	6		Packages: Defining, creating and accessing a package, understanding Class path, importing packages.						
12	23 May- 28 May 22	5								

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13	30 May-04 June 22	6	V	Exception Handling: Benefits of exception handling, the classification of exceptions , exception hierarchy,	Eclipse IDE 2021-12	Herbert Scheldt, "Java the complete reference", McGraw Hill, Osborne, 7th Edition, 2011.				
14	06 June-11 June 22	5		usage of try, catch, throw, throws and finally, re-throwing exceptions, GUI components in Java, Introduction to Database Connectivity.						
15	13 June-18 June 22	6		I/O Streams: Concepts of I/O streams, Reading console Input and Writing Console output, File Handling.						
16	20 June-25 June 22	5		INTERNAL PRACTICAL						
17	27 June-02 July 22	6		SESSIONAL-II						

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COEW/ ETC/ 20-21

Date: 10/01/ 2022

LESSON & TEACHING PLAN for Microwave & RADR Engineering

Department of Electronics & TelecommunicationEngineering

Faculty Name: Asst.Prof.A.K.Tripathi | **Year : 2021-22** | **Sem:- VIII** | **Subject Code: BEETE805T**

EK lo.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No.	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10 JAN- 15 JAN 22	5		Skill Development Workshop						
1	17 JAN-22 JAN 22	5	I	nMOS enhancement and pMOS enhancement transistor,		"Principal of CMOS VLSI design", Neil H. E. Weste, K. Eshraghian, Addison Wesley VLSI Series.		21-01-22 24-01-22		
2	24 JAN-29 JAN 22	6		threshold voltage ,body effect, MOS effect				28-01-22 27-01-22		
3	31 JAN - 05 FEB 22	4		MOS device equations,small signal model for MOS transistor				28-01-22 29-01-22		
4	07 FEB - 12 FEB 22	6	II	Principle of operation, dc characteristics, transient characteristics, n/p ration, noise margin		"Principal of CMOS VLSI design", Neil H. E. Weste, K. Eshraghian, Addison Wesley VLSI Series.		29-01-22		
5	14 FEB - 19FEB 22	5	II	static load MOS inverter, transmission gate, introduction to Bi-CMOS inverter.				01-02-22 02-02-22		

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7	21 FEB - 25FEB 22	5	SESSIONAL - I							
8	28 FEB - 05 MARCH 22	5	III	Study of combinational logic, gates, compound gates, multiplexers, and memory elements using CMOS technology.		"Principal of CMOS VLSI design", Neil H. E. Weste, K. Eshraghian, Addison Wesley VLSI Series.	04-02-22	05-02-22		
9	07 MAR - 12 MARCH 22	5	IV	Resistance and capacitance estimation, switching characteristics, power dissipation, charge sharing.		"CMOS VLSI Design" , Pucknell & K. Eshraghain, PHI Publications	10-02-22	18-02-22		
10	14 MAR - 19 MARCH 22	5	V	VLSI processing integration, layout design rules, and stick diagram representation latch up, CMOS circuits and logic design: transistor sizing, fan-in, fan-out and physical		"Principal of CMOS VLSI design", Neil H. E. Weste, K. Eshraghian, Addison Wesley VLSI Series.	02-03-22	05-03-22	07-03-22	09-03-22
11	21 MAR - 26 MARCH 22	5	IV	Types of fault, stuck open, short, stuck at 1, 0 faults, Fault coverage, Need of Design for Testability (DFT), Controllability, predictability, testability, Built In Self Test (BIST), Partial and full scan check, Need of boundary scan check, JTAG, Test Access Port (TAP) controller.		"Digital Interrogated circuits, A Design Perspective" , J. M. Rabaey, A. Chandrakasan, and B. Nikolic., PHI Publications .	10-03-22			
12	28 MAR - 02 APRIL 22	3					26-03-22			
13	04 APRIL - 09 APRIL 22	SESSIONAL - II								

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CCOEW/CT/ 20-21

LESSON & TEACHING PLAN for Digital Circuits & Fundamental of Microprocessor

Department of Computer Technology											
Faculty Name: Asst.Prof.A.K.Tripathi				Year : 2021-22			Sem:-III	Subject Code: BECME302T			
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign	
1	27 Sept 21 - 2 Oct	5	1	Logic and Boolean algebra, Number Systems. Logic Gates & Truth Tables, Demorgan's law, Minimization of combinational circuits using Karnaugh maps upto five variable.				23-10-21			
2	4 Oct - 8 Oct	4									
3	11 Oct - 16 Oct	5									
4	18 Oct - 22 Oct	4									
5	25 Oct - 30 Oct	5						5-11-21			
6	1 Nov - 6 Nov	DIWALI VACATION									
7	8 Nov - 13 Nov	SESSIONAL EXAM I									
8	15 Nov - 20 Nov	5		Multiplexers, Demultiplexer , Encoders				17-11-21			

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9	22 Nov - 26 Nov	4	2,3	,Decoders ,Code Converters, Adders ,Subtractor (Half ,Full),BCD Adder/ Subtractor , ripple and carry look-ahead adder						
10	29 Nov - 4 Dec	5						06-12-21		
11	6 Dec - 10 Dec	4	3,4	Input equations, state table, analysis with J-K Flip flops.Design				08-12-21 22-12-21		
12	13 Dec - 18 Dec	5	4,5	Counters, asynchronous and synchronous Programmable logic Devices: Read only Memory ROM PLA PAL				27-12-21 31-12-21 31-12-21		
13	20 Dec - 24 Dec	4	6	Programming of 8085 and interrupt structure and				01-01-22		
14	27 Dec - 1 Jan 22	SESSIONAL EXAM II								

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Department of Electronics & Tele Communication Engineering

Faculty Name: Prof.Vaijayanti H. Panse | Year : 2021-22 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	27th Sept - 2nd Oct	1	1	Introduction, Syllabus Discussion		1. Morris Mano, "An approach to Digital Design", Pearson Publication 2. R.P. Jain "Modern Digital Electronics", TMH Publications		27/09/2021		
		2		Logic gates and truth tables, Number Systems				28/09/2021		
		3		Octal, Hexadecimal numbers				30/09/2021		
		4		BCD, Excess-3 codes				4/10/2021		
		5		Gray codes, code conversion examples				7/10/2021		
2	4th Oct - 8 Oct	6		Boolean Algebra rules, DeMorgon's law				8/10/2021		
		7		SOP and POS forms				11/10/2021		
		8		Minimization of logic function using Boolean Algebra				28-10-21		
		9		Minimization of logic function using Boolean Algebra				28-10-21		
3	11 Oct - 16 Oct	10		Minimization of logic function using K-map				31-10-21		
		11		Minimization of logic function using K-map				02-11-21		
		12		5 variable K-map				15-11-21		
		13	2	Introduction to logic families		1. Morris Mano, "An approach to Digital Design", Pearson Publication 2. R.P. Jain "Modern Digital Electronics", TMH Publications		17-11-21		
		14		Arithmetic circuits, adders, subtractors				17-11-21		
4	18 Oct - 22 Oct	15		ALU, Comparator				21-11-21		
		16		Parity generator, checker, Multiplexer				25-11-21		
		17		Use of multiplexer in combinational logic design				26-11-21		
		18		Use of multiplexer in combinational logic design				26-11-21		
5	25 Oct - 30 Oct	19		Multiplexer tree, Demultiplexer				01-12-21		
		20		Encoders and decoders				03-12-21		
		21		Encoders and decoders				04-12-21		
		22		BCD to &-segment decoder, Code converters				06-12-21		
		23		Online Quiz I				06-12-21		
7	1st Nov - 6 Nov	DIWALI VACATION								
	8th Nov - 13 Nov	Sessional I Examination								
8	15th Nov - 20 Nov	24	3	1 bit memory cell, SR flipflop		1. Morris Mano, "An approach to Digital Design", Pearson Publication 2. R.P. Jain "Modern Digital Electronics", TMH Publications		09-12-21		
		25		JK, MS-JK flip flop				17-12-21		
		26		D and T flip flop, use of preset and clear				18-12-21		
		27		Excitation tables of flip flop				20-12-21		
		28		Conversion of flip flops				22-12-21		
9	22nd Nov- 26th Nov	29		Conversion of flip flops				22-12-21		
		30		Registers, shift registers				23-12-21		
		31		Counters, ring counter				27-12-21		

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		32		Twisted ring counter			27-12-21
10	29th Nov - 4th Dec	33	4	Sequence generator		1. Morris Mano, "An approach to Digital Design", Pearson Publication 2. R.P. Jain "Modern Digital Electronics", TMH Publications	27-12-21
		34		Ripple counters			29-12-21
		35		Up/Down counters			29-12-21
		36		Synchronous counters			30-12-21
		37		Synchronous counters, lock out			30-12-21
11	6th Dec - 10 Dec	38	5	Introduction to Intel 8085		1. Ramesh Gaonkar, "Microprocessor Architecture,Programming, Applications with the 8085", Penram International Publications	31-12-21
		39		Architecture Description			
		40		Architecture Description			
		41		Architecture Description			
12	13th Dec - 18 Dec	42		Pin Description			
		43		Addressing Modes			
		44		Addressing Modes			
		45		8085 Instruction Set			
		46		8085 Instruction Set			
13	20th Dec - 24th Dec	47		Assembly Language Programming			
		48		Assembly Language Programming			
		49		Interrupts			
		50		Online Quiz 2			01-01-22
15	27th Dec - 1st Jan	Sessional II Examination					

Prof. Vaijayanti Panse

(Faculty In Charge)

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Department of Electronics & Tele Communication Engineering

Faculty Name: Prof.Vaijayanti H. Panse | Year : 2021-22 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	23rd Aug - 27th Aug	1	1	Introduction		Data Compression – David Salomon, Springer Publication, 4th Edition. Introduction to Data Compression 4th Edition, Data Compression – David Salomon, Springer Publication, 4th Edition. Introduction to Data Compression 4th Edition, Khalid Sayood		23/08/21		
		2		Shannon Fano Coding				24/08/21		
		3		Huffmann coding				25/08/21		
		4		Huffmann coding				26/08/21, 30/08		
		5		Arithmetic coding				31/08/21		
2	30th Aug - 04th Sept	6		Arithmetic coding				1/09/21		
		7		dictionary techniques LZW				2/09/21		
		8		LZW, family algorithms				4/09/21		
		9		LZW, family algorithms				6/09/21		
		10		Entropy measures of performance and Quality measures				8/09/21	14/09/21	
		11		Tutorial				8/09/21	Activity	
3	06th Sept - 09th Sept	11	2	Digital Audio		Data Compression – David Salomon, Springer Publication, 4th Edition. Introduction to Data Compression 4th Edition, Khalid Sayood		9/09/21		
		12		Lossy sound compression				16/09/21		
		13		μ-law and A-law companding				20/09/21		
		15		μ-law and A-law companding				21/09/21		
4	13th Sept - 18th Sept	16		DPCM audio compression		Data Compression – David Salomon, Springer Publication, 4th Edition. Introduction to Data Compression 4th Edition, Khalid Sayood		22/09/21		
		17		ADPCM audio compression				27/09/21		
		18		MPEG audio standard				28/09/21		
		19		Frequency domain coding				30/09/21		
		20		Frequency domain coding				30/09/21		
		21		Format of compressed data				11/10/21		
5	20th Sept - 24th Sept	22	3	Lossless techniques of image compression		Data Compression – David Salomon, Springer Publication, 4th Edition. Introduction to Data Compression 4th Edition,		11/10/21		
		23		Gray codes, Two dimensional image transforms				11/10/21		
		24		Gray codes, Two dimensional image transforms				11/10/21		
		25		JPEG, JPEG 2000				11/10/21		
		26		JPEG, JPEG 2000				11/10/21		
6	27th Sept - 01st Oct	27		Predictive Techniques PCM		Data Compression – David Salomon, Springer Publication, 4th Edition. Introduction to Data Compression 4th Edition, Khalid Sayood		11/10/21		
		28		DPCM. Video compression				11/10/21		
		29		DPCM. Video compression				11/10/21		
		30		MPEG industry standard.				11/10/21		
		31		Online Quiz			Online Quiz - 1 (01/10/21)			
7	04th Oct - 09th Oct	Sessional I Examination								

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8	11th Oct-16th Oct	32	4	Introduction, Types of attacks		Cryptography and Network Security – William Stallings, Pearson Education Asia Publication		18-10-21		
		33		Steganography, Data Encryption Standards				21-10-21		
		34		Data Encryption Standards				25-10-21		
		35		Block Cipher Principle				26-10-21		
		36		S-box design				27-10-21		
		37		S-box design				28-10-21		
9	18th Oct - 22nd Oct	38		Triple DES with two three keys		Cryptography and Network Security – William Stallings, Pearson Education Asia Publication		10-11-21		
		39		Tutorial				11-11-21		
		40	5	Euler's theorems				15-11-21		
		41		Chinese remainder theorem				15-11-21		
		42		Principles of public key cryptography				16-11-21		
10	25th Oct-30th Oct	43		Principles of public key cryptography		Cryptography and Network Security – William Stallings, Pearson Education Asia Publication		16-11-21		
		44		RSA algorithm				16-11-21		
		45		RSA algorithm				16-11-21		
		46		Diffie-Hellman Key Exchange				17-11-21		
		47		Elliptic curve cryptology				17-11-21		
		48		Message authentification and Hash functions				18-11-21		
11	08th Nov-12th Nov	49		Message authentification and Hash functions		Cryptography and Network Security – William Stallings, Pearson Education Asia Publication		18-11-21		
		50		Hash and Mac algorithms				18-11-21		
		51		Hash and Mac algorithms				18-11-21		
		52		Digital signatures				18-11-21		
		53		Digital signatures				18-11-21		
12	15th Nov-20th Nov	54	6	Intruders, Viruses, Worms, firewall design		Cryptography and Network Security – William Stallings, Pearson Education Asia Publication		20-11-21		
		55		Intruders, Viruses, Worms, firewall design				20-11-21		
		56		Antivirus techniques, digital Immune systems				22-11-21		
		57		Antivirus techniques, digital Immune systems				22-11-21		
		58		Certificate based & Biometric authentication				23-11-21		
		59		Secure Electronic Payment System				25-11-21		
13	22nd Nov-26th Nov	60		Secure Electronic Payment System			Online Quiz - 2 (22/11/21)			
		61		Revision						
		62								
		63								
		64								
14	29th Nov-30th Nov	65								
		66								
15	01st Dec-08th Dec	Sessional II Examination								

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				SESSIONAL - I				
5	4 Oct - 9 Oct 21						kung, S.Y., H.J.	
6	11 Oct - 16 Oct 21	6	III	Critical path, unfolding and retiming Application of unfolding.	VSP_ppt_03		While house T.Kailath "VLSI and Modern singal processing", prentice hall.	
7	18 Oct - 22 Oct 21	5	IV	Introduction Folding Transformation, Register minimization in folded architectures, Folding in Multirate systems.	VSP_ppt_04	Video lecture by Dr. S.S. Limaye	Keshab K. Parhi. "VLSI Digital Signal Processing Systems" Wiley-Inter Sciences. 1999	
8	25 Oct - 30 Oct 21	6		Folding in Multirate systems.		NPTEL Lecture	Keshab K. Parhi. "VLSI Digital Signal Processing Systems" Wiley-Inter Sciences. 1999	
9	8 Nov - 12 Nov 21	5	V	Introduction, Cook-Toom algorithm,	VSP_ppt_05	Video lecture by Dr. S.S. Limaye	Keshab K. Parhi. "VLSI Digital Signal Processing Systems" Wiley-Inter Sciences. 1999	
10	15 Nov - 20 Nov 21	6		Winogard algorithm.	VSP_ppt_05	Tutorial	Keshab K. Parhi. "VLSI Digital Signal Processing Systems" Wiley-Inter Sciences. 1999	
11	22 Nov - 26 Nov 21	6	VI	Iterated convolution, Cyclic Convolution,	VSP_ppt_06			
12	29, 30 Nov 21	2		Design of Fast Convolution Algorithm by Inspection	VSP_ppt_06		Keshab K. Parhi. "VLSI Digital Signal Processing Systems" Wiley-Inter Sciences. 1999	

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13	1-Dec-8 Dec 21	SESSIONAL - II

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CCOEW/ETC / 21-22 Date: 17/ 8 / 2021

LESSON & TEACHING PLAN for Analog circuit Design

Department of Electronics and Telecommunication

Faculty Name: Prof. Jaya Gadge | Sub: Analog Circuit Design | Year : 2021-22 | Sem:-V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	23rd Aug - 27th Aug	5	I	Introduction , Block diagram of opamp				Operational Amplifier and Applications: R. Gayakwad Page No 1- 61		23/08		
				Basic differential amplifier using transistor DIBODA								
				Basic differential amplifier using transistor DIUBODA						01/09		
2	30th Aug - 04th Sept	6	I	Basic differential amplifier using transistor SIBODA						03/09		
				Basic differential amplifier using transistor SIUBODA						06/09		
				Tutorial s							Tutorial	
				Constant current bias								
				Cascading Amplifier								
				Level Translator				Operational Amplifier and		08/09		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no: Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	06th Sept-09th Sept	4	I	Opamp and its symbol equivalent circuit, ideal transfer curve				Applications: R. Gayakwad Page No 62-89		24/8		
				Opamp Parameters				Operational Amplifier and Applications: R. Gayakwad Page No 90-122		27/8		Raut
				Open loop Configration of opamp						14/9		
4	13th Sept-18th Sept	6	I	Closed loop and feedback amplifier					Assignment 1	17/9		
				NINV Amplifier and Volt follower						18/9		
				INV Amplifier Virtual ground concept								
			II	Voltage follower				Operational Amplifier and Applications: R. Gayakwad Page No 90-122				
				Summing amplifier, scaling and averaging amplifier								
5	20th Sept-24th Sept	5	II&III	Integrator and differentiators (Practical considerations and design)								
				Instrumentation amplifier								
				Peak detector								
				Log and antilog amplifiers using OP-Amp				Operational Amplifier and Applications: R. Gayakwad Page No236-286				
				Transistor and analog multipliers								
				Comparators, Schmitt trigger						23/9		
6	27th Sept-01st Oct	5	III	Clipper and Clamper				Operational Amplifier and Applications: R. Gayakwad Page No236-286		24/9		
				Precision Rectifier								
				PLL								
				Bistable, Monostable, Astable multivibrator using 555						27/9		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	04th Oct-09th Oct			Sessional-1								
8	11th Oct-16th Oct	6	III	Sample/Hold circuits, D/A (R/R)				Operational Amplifier and Applications: R. Gayakwad Page No 1- 207		29/9		
				A/D conversion circuits								
				design of ADC using 0804 ICs.						30/9		
				Unregulated D.C. power supply rectifiers						11/10		
				Unregulated D.C. power supply filters						13/10		
9	18th Oct - 22nd Oct	5	IV	Design of series voltage regulators				Monograph on Electronic circuit Design: Goyal & Khetan.		16/10		
				Design of regulators using IC 78×× and 79××								
				protection circuits for regulators,								
				Design of SMPS (Buck & Boost)								
				Tutorial Tutorial on above topics						18/10	Tutorial	
10	25th Oct-30th Oct	6	V	OPAMP based Wein Bridge osc						20/10		
				Phase Shift oscillators								
				Transistorized Hartley								
				Colpitts oscillator								
				Tutorial Tutorial on above topics						30/10	Tutorial	
				Crystal oscillators,						8/11		
				Types of oscillator based on signal generator				Operational Amplifier and		10/11		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	08th Nov-12th Nov	6	V &VI	Evaluation of figure of merit oscillators circuits.				Applications: R. Gayakwad page No 289-340		12/11		
				Design of function generators								
				Advantages of active filters,Design of Butterworth Active Filter								
				Design of Active filter of LPF,HPF				Operational Amplifier and Applications: R. Gayakwad page No 345-380				
				Design of Active filter of BPF						20/11		
12	15th Nov-20th Nov	6	VI	Design of 2 and upto 6 th order filter						22/11		
				Design of Relay driver circuit,				Notes				
				Design of stepper motor control circuit								
				Design of Dc servo motor control circuit								
				Tutorial Tutorial on above topics						26/11		
13	22th Nov-26th Nov	5		Revision						03/12/21		
7	01th Dec-08th Dec			Sessional-II								

Subject Teacher

Academic Coordinator

Faculty in Charge

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CCOEW/ ETC/ 20-21

Date: 10/01/ 2022

LESSON & TEACHING PLAN for Microwave & RADR Engineering

Department of Electronics & TelecommunicationEngineering

Faculty Name: Prof. Jaya Gadge					Year : 2021-22		Sem:- VIII	Subject Code: BEETE801T		
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	10 JAN-15 JAN 22	5		Skill Development Workshop						
1	17 JAN-22 JAN 22	5	I	Introduction of Microwave signals ,range and Tubes,High frequency limitations of conventional tubes,Two Cavity and multi cavity Klystrons ,Structure and working with numericals	Will Show the conventional tubes and microwave tubes	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India,Microwave and Radar Engg. By M.Kulkarni(Page no. 297 - 338)		17/1/22	Assi 10/1/22 (1)	
2	24 JAN-29 JAN 22	6		Reflex Klystrons, slow-wave structure: TWT with Numericals and Derivation				27/1/22 28/1/22		
3	31 JAN - 05 FEB 22	4	I	BWO(Backword wave oscillator),Magnetron oscillator and its types	explain with existing klystron generator in lab			03/2/22 04/2/22 08/2/22		

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4	07 FEB - 12 FEB 22	6	II	Introduction of Microwave Components,Introduction to rectangular waveguide & waveguide excitation,Principles of S-parameters, Sparameters for multi-ports (2-port, 3-port, 4-port etc.)	Power measurement using Reflex Klystron with variation by practically	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 199-260)	09/2/22
5	14 FEB - 19FEB 22	5	II	properties of S-matrix, Derivation ,waveguide Tees (E, H, E-H planes), Directional Couplers, matched terminations,Microwave attenuators,Slotted line, Ferrite devices, Circulators, Isolators, gyrators.	Will show all the component of microwave also take power measurement		10/2/22 28/2/22
7	21 FEB - 25FEB 22	5	SESSIONAL - I				
8	28 FEB - 05 MARCH 22	5	III	Solid State Microwave Devices,Parametric amplifiers, PIN diodes, Transferred Electron devices: Gunn diode,Avalanche diode, Transit Time devices like IMPATT, TRAPATT diodes.	NPTEL Lectures	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India,Microwave and Radar Engg. By M.Kulkarni(Page no. 369-436)	22/3/22 25/3/22

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9	07 MAR - 12 MARCH 22	5	V	radar range equation, factors influencing maximum range,Numericals based on Radar range Equation ,effects of noise, Pulsed radar systems.	Will show target detection using CW RADAR	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications and Microwave and Radar Engg. By M.Kulkarni(Page no. 513-545)	
11	14 MAR - 19 MARCH 22	5	VI	Antennas and scanning, display methods, moving target indication, radar beacons, CW Doppler radar,FM CW phased array radars, applications of radar	will practically show the working of antenna's with radiation pattern	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications and Microwave and Radar Engg. By M.Kulkarni(Page no. 545-570)	
12	21 MAR - 26 MARCH 22	5	IV	Microwave measurement: Introduction to microwave measurements, definition and measurement methods of frequency,power, attenuation VSWR, impedance, insertion loss, dielectric constant, Q of a cavity resonator, phase shift.	Will practically perform all the measurement parameter	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 261-296)	
13	28 MAR - 02 APRIL 22	3					
15	04 APRIL - 09 APRIL 22	SESSIONAL - II					

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CCOEW/ ETC/ 20-21 Date: 01/02/ 2021

LESSON & TEACHING PLAN for Advanced Digital System Design

Department of Electronics & TelecommunicationEngineering

Faculty Name: Prof. Anand Deshkar | Year : 2021-22 | Sem:- VII | Subject Code: BEETE601T

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	23 Aug-27Aug 21	5	I	Introduction to digital system design:Development Flow,HDL,VHDL In development flow,Basic VHDL concepts			Will show Xilinx Kit & FPGA	Duglas Perry(Chapter no. 1&2 page no.1-4)Brown & Varensic		23/8/21 23/8/21 24/8/21 4/9/21 25/8/21		
2	30 Aug-4 Sept 21	6		Basic language constructs of VHDL:skeleton & syntax of VHDL Program,elements & program format,objects,data type & operators,concurrent signal assignments				Duglas Perry(Chapter 1,Page 5,Chapter2 Page no. 73-102)		25/8/21 26/8/21 27/8/21 2/9/21 3/9/21 4/9/21		
3	6 Sept-9 Sept21	4	II	Basic language constructs of VHDL:Combinational versus sequential circuits,signal assignment statements,conditional signal assignment,selected signal assignment,conditional				Duglas Perry(chapter no.3,page no.42-64)		30/8/21 31/8/21 9/9/21 1/9/21 8/9/21		

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	Oct 21	6	V	circuits,efficient coding styles,combinational logic synthesis,partitioning for synthesis				9, Page 232-247)					
10		RETEST											
11	18 Oct - 22Oct 21	5	VI	Pipelining,Resource sharing,optimising arithmetic expressions,power analysis of FPGA based						30/10/21 17/11/21			
12	25 Oct-30 Oct 21	6	I&VI	Device technologies,system representation,levels of abstraction,development task & EDA software,Programmable Logic devices: Introduction to place &route process,architecture of CPLD,FPGA XILINX 4000 SERIES,Overview of PLDs,CPLD,FPGA				Douglas Perry(Chapter 9,Page no. 232-247) Brown & Varensic		26/11/21			Rally
13	8 Nov-12 Nov 21	6	VI	Design examples: ALU,barrel shifter,4*4 keyboard scanner,multiplier				Duglas Perry(Chapter 13-page no.306-307 chapter 10 page no.264)		26/11/21 3/12/21			
14	03 MAY - 07 MAY 21	Internal Practical & Final Submission											
15	01DEC-8DEC21	SESSIONAL - II											

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				versus selected Signal assignment statements								
4	13 Sept-18 Sept 21	6	III	Subprogram: Functions,Procedures,attributes,generic,generate, package,IEEE standard logic library,file I/O			Duglas Perry(chapter no.5 &6,page no. 109-170)		18/9/21			
5	20 Sept-24 Sept 21	5		Subprogram:test bench,component declaration,instantiation,configurationFinite State Machine: Overview of FSM			Duglas Perry(chapter 14,page no.330-340Chapter 7,page no.174-180)		28/10/21			
6	27Sept-1 Oct 21	6	IV	FSM representation,moore machine versus mealy machine,VHDL representation of FSM,state assignment,some FSM design examples			Douglas Perry(Chapter page no. 266-272) Brown & Varensic		28/10/21			
7	3 Oct-10 Oct21		SESSIONAL - I									
8	11 Oct-16 Oct 21	5	IV	Analysis of asynchronous sequential circuit-flow table reduction-races-state assignment-transition table and problems in transition table			Douglas Perry(Chapter Page no. 266-272) Brown & Varensic		9/11/21			
	11 Oct-16			HDL Synthesis:The synthesis concept,timing analysis of logic			Duglas Perry(chapter					

6/3/21
7/3/21
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CCOEW/ ETC/ 20-21

Date: 31/12/ 2021

LESSON & TEACHING PLAN for Wireless & Mobile Communication

Department of Electronics & TelecommunicationEngineering

Faculty Name: Prof. Anand Deshkar | Year : 2021-22 | Sem:- VIII | Subject Code: BEETE803T

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	17Jan-22Jan22	5	I	Evolution of mobile radio comm. cellular telephone sys, freq reuse, channel assignment & handoff				Theodore Rappaport(chapter1, 1-4, chapter 3,pg 57-76)		17/1 18/1 19/1 20/1 21/1/22		
2	23Jan-5Feb22	5	II	Trunking and grade of service, improving capacity in cellular system, causes of propogation path loss, causes of fading long & short term, definition of sample average, statistical average, probability distribution				Theodore Rappaport(chapter3, pg 77-93, chapter 5, pg 177- 209)		24/1 25/1 27/1, 28/1, 29/1, 31/1 1/2, 2/2, 3/2, 4/2, 5/2, 7/2		Rank
3	7-12Feb	6	II	level crossing rate and average distribution of fade, delay spread, coherence bandwidth,				Theodore Rappaport(chapter 5, pg 177-209)		8/2, 9/2 10/2		
4	14-19 Feb	4	III	fundamentals of equalization, space polarization, frequency & time diversity techniques				T. Rappaport(chapter 7, pg 350-390)		15/2, 16/2 18/2, 19/2		

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	21-26 Feb	Sessional I								
5	28 Feb-5 Mar	6	III	space diversity, polarization diversity, fundamentals of channel codingGlobal system for Mobile services & features, GSM system architecture,			T Rappaport(chapter 7, pg 350- 390)		19/2, 28/2, 2/3, 3/3 4/3	Rauts
6	7-12Mar	5	IV	GSM radio subsystem, GSM channel type, GSM frame structureSignal processing in GSM, Introduction to CDMA digital cellular standard,			T Rappaport(Chap 11 pg 549- 563)		5/3, 7/3, 8/3, 9/3, 10/3, 11/3	
7	14-19 Mar	6	IV	3rd generation wireless networks, 3G technologyIDifference between wireless & fixed telephone networks, development of wireless network traffic routing in wireless network			**T.S.Rappaport ,Jochen Schiller**		23/3, 24/3, 25/3	Rauts
9	21-26Mar	5	V	mobile ip & wireless access protocol, operation of mobile ip,collocated address, registration,tunneling, WAP architecture,WML scripts, WAP service, WAP			T Rappaport,Jochen Schiller		5/4 (video on topic sent)	
10		RETEST								
..	28 Mar-2	..	..	Spread spectrum LANs, narrow bank microwave LANs ,IEEE802 protocol,architecture			T.Rappaport,Jochen Schiller			

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	Apr	5	V	&services,892.11 MAC,802.11 physical layer,Wireless Application Protocol							
15	4 April- 9 April22	SESSIONAL - II									

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CCOEW/ETC / 21-22

Date: 29/ 12 / 2021

LESSON & TEACHING PLAN for Computer Communication Network

Department of Electronics and Telecommunication

Faculty Name: Mrs. Pallavi Ganorkar					Sub: Computer Communication Network		~~Sec~~	Year : 2021-22		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10-15 Jan	5		Skill development workshop						
2	17-22 Jan	5	I	Uses of computer Network, Network Software-design Issues for layers, Service primitives and relationship of services to Protocols, Reference models-OSI,TCP/IP		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education, Page no. 23-102, page no. 109-136		29/1/22		
3	24-29 Jan	6	I,II	network architectures introduction, Example of networks-X.25, Frame Relay & ATM, Protocols and Standards, Physical layer-Data rate limits, Transmission media-guided and Unguided,				2/2/22		Rang
4	31 Jan-5 Feb	4	II	Switching systems-Circuit switching, Datagram Switching & Virtual circuit switching, Structure of circuit and packet switch,	Will show them in CC lab	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education page no. 275-298		4/2/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
5	7-12 Feb	6	II, III	cable modem and DSL technologies, SONET basics, selection of IEEE std 802.11 ,a,b,c,g, Data link layer: Framing,	Will show them in CC lab	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education Page no. 203-206, page no. 213-271		8/2/22		
6	14-19 Feb	5	III	Flow & Error control Protocols, HDLC, PPP, Multiple access techniques,random access, controlled access & Channelization,				16/2/22		Rauk
7	21-26 Feb	Sessional I								
8	28 Feb-5 Mar	6	III	Ethernet types-bridged, Switched, Full duplex, Fast & gigabit Ethernet, Introduction to Data link layer in 802.11 LAN, Connecting devices like passive hubs, repeaters, Active hubs, Bridges, Two-layer Switches, Routers, three layer switches, Gateway etc.,	Will show them in CC lab	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education Page no. 298-330, page no.350-360		2/3/22		
9	7-12 Mar	5	III, IV	Backbone networks, Virtual LANs, Simple Router architecture, Sliding window protocol, IPv4 address, IPv6 address, Address mapping-ARP, RARP & DHCP	Demonstration on Desktop PC	Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education Page no. 454-483		14/3/22		Rauk
10	14-19 Mar	5	IV	IPv4 datagram detail format, IPv6 datagram detail format, ICMP, IGMP, Network layer issues like Delivery, forwarding, intra-domain and Inter-domain routing, Routing algorithms like Shortest path routing		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education page no. 373-396		16/3/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	21-26 Mar	5	IV	Flooding, Distance Vector Routing, Link State Routing, Path vector routing etc., Addressing types- Physical, Logical & port address.Process to process delivery,		Andrew Tenenbaum, "Computer Networks", 5th Edition, Pearson Education page no. 373-396, page no.513-613	2	21/3/22		
12	28 Mar-2 April	3	IV,V	Connection oriented & Connectionless Transport, UDP,TCP, congestion control and Quality of Service, Application layer protocols and applications like Ping, FTP, telnet, http (www), SMTP, SNMP,	Demonstration on Desktop PC			24/3/22		Rauk
14	4-9 Apr	**Sessional II**								
13	11-16 Apr	5	V	Trace route, TFTP, BOOTP, DNS, NFS, RPC, X-server, E-mail, Introduction to streaming Audio/Video,P2P file sharing, Introduction to socket programming	Demonstration on Desktop PC			25/3/22		
15	18-23 Apr	5	VI	Introduction to Cryptography, Secret key algorithm, public key algorithm, Hash Functions, basic ITU-T Recommendation - X.805 Security Architecture, Basics of Security Requirements/Services/Dimensions, Basics of Security attacks, Basics of Security mechanisms / solutions	Demonstration on Desktop PC	William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson Education		Notes given		Rauk

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
16	25-29 Apr	5		UTP Cabling for PC to PC communication, Network tester, network monitoring, Protocol Analyzer, Network Simulation, internet access through Dialup/DSL/Leased Line/Mobile handset	Will show them in CC lab	William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson Education		Assignment given		

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CCOEW/AS / 21-22

Date: 03/01/2022

LESSON & TEACHING PLAN for Applied Maths-I

Department of Electronics & Telecommunication

Faculty Name: Prof. Pravin Gorantiwar | Sub: Numerical Analysis with MATLAB | | E & TC | Year : 2021-22 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	14 March - 19 March	1		Numerical mathematics Syllabus Discussion							
2	21 March - 26 March	4	II	**Unit II: NUMERICAL METHODS - I** Error Analysis,							
				Solution of Algebraic and Transcendental Equations: Method of False position							
				Newton–Raphson method and its convergence					28/03	25/03/21	
3	28 March - 02 April	4	II	Basic MATLAB command "fzero" to find real roots of f(x) = 0.							
				Solution of system of simultaneous linear equations: Crout's method (LU decomposition Method)							
				Gauss-Seidel method					29/04		
4	4 April - 09 April	4	II	MATLAB Built-in function for LU and Gauss-Seidel method.							
			III	**Unit III: NUMERICAL METHODS - II** Numerical solution of ordinary differential equations: Taylor's series method							
				Euler's modified method							
				Runge- Kutta 4th order method							
				Milne's predictor corrector method							
5	11 April -	4	III	RungeKutta method to solve simultaneous first order differential equations						22/04	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	18 April			Introduction of MATLAB commands for solving ordinary differential equations.							
6	18 April - 23 April	4	IV	**Unit IV: Z-TRANSFORM** Definition, Convergence of Z-transform							
				properties (Statement only)							
7	25 April - 30 April	4		Inverse Z-transform by partial fraction method					12/5		
				Residue method (Inversion integral method)							
8	02 May - 07 May	6		Sessional - I Examination							
9	09 May- 14 May	4	IV	Convolution of two sequences					18/05		
				Solution of difference equations with constant coefficients by Z-transform, Use of MATLAB commands ztrans(f), ztrans(f, transVar), ztrans(f, var, transVar).							
10	16 May- 21 May	4	V	**Unit V: PROBABILITY** Review of discrete and continuous random variables							
				Mathematical expectation					25/05	19.05.22	
				Variance and Standard deviation							
1	23 May- 28 May	4	V	Moments							
				Moment generating function,							
				Skewness and Kurtosis						26.05.22	
	30 May- 04 June	4	V	Binomial distribution							
				Poisson distribution							
				Normal distribution							
				Exponential distribution					26/05		
	06 June-		V	**Unit I: INTRODUCTION TO MAT**LAB Introduction, What is MATLAB?,							
				The MATLAB system							
				MATLAB documentation, Starting and quitting MATLAB					10/06		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
				MATLAB desktop matrices, array matrices and magic squares, MATLAB Expressions,							
14	13 June-18 June	4	V	Controlling command window input and output, Graphics overview of MATLAB plotting, Types of functions					13/06		
15	19 June-24 June	Sessional- II Examination									
16	27 June-02 July										

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LESSON & TEACHING PLAN for Digital Signal Processing

Department of Electronics and Telecommunication

aculty Name: Mrs. Pallavi Ganorkar						Sub: Digital Signal Processing		Sec:-	Year : 2021-22		Sem:- VI
WEE No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb-6 Feb	6	I	Basic elements of DSP and its requirement, Advantages of Digital over analog signal processing, sampling theorem, sampling process and reconstruction of sampling data	ETC6DSPW01D0 10221L01-06	Verification on MATLAB	J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		3/2/22		
2	8 Feb-12 Feb	5		Discrete time signals & systems: Discrete time signals & systems, classification of discrete time signals and systems, LTI systems	ETC6DSPW02D0 80221L07-11	Verification on MATLAB			8/2/22		
3	15 Feb-20 Feb	5	I,II	linear convolution, Cross Correlation, Autocorrelation. The Z-transform: Definition, properties of the region of convergence for the Z-transform	ETC6DSPW03D1 50221L12-16	Verification on MATLAB			17/2/22		
4	22 Feb-26 Feb	5	II	Z-transform properties, Inverse Z-transform, Parseval's theorem	ETC6DSPW04D2 20221L17-21		J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Princinles.		3/3/22		

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5	1 Mar-6 Mar	6	II,III	unilateral Z-transform. Definition and properties of DFT, IDFT, Relation between DFT and Z–Transform	ETC6DSPW05D0 10321L22-27		Principles, algorithms and applications, Pearson Education		11/3/22		Rauk
6	5 Mar-12 Mar	6	III	Radix- 2 FFT algorithms, Linear filtering methods based on DFT, circular convolution	ETC6DSPW06D0 50321L28-33	Verification on MATLAB			24/3/22		
7	15 Mar-20 Mar	**Sessional I**									
8	22 Mar-26 Mar	5	III	Frequency analysis of discrete time signals using DFT, Gortzel algorithm	ETC6DSPW08D2 20321L34-38		J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		25/3/22		
9	29 Mar-3 Apr	4	IV	Filter design methods – Approximation of derivatives, Impulse invariance, bilinear transformation,	ETC6DSPW09D2 90321L39-42	Verification on MATLAB			5/4/22		
10	5 Apr-9 Apr	5		characteristics & designing of Butterworth, Chebyshev filters, frequency transformations	ETC6DSPW10D0 50421L43-47				7/4/22		Rauk
11	12 Apr-17 Apr	4		IIR filter structuresDirect form I-II, transpose form, parallel form, cascade, Lattice and Lattice-ladder structures	ETC6DSPW11D1 20421L48-51	Verification on MATLAB			11/4/22		
12	19 Apr-23 Apr	5	V	Symmetric and antisymmetric FIR filters, Linear phase FIR filter, design of FIR filters using windows (Rectangular, Bartlett, Hanning, Hamming & Blakman)	ETC6DSPW12D1 90421L52-56	Verification on MATLAB	J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		26/4/22		
13	26 Apr- 1 May	6		frequency sampling method, FIR differentiators, FIR filter structures	ETC6DSPW13D2 60421L57-62	Verification on MATLAB			28/4/22		

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14	3 May-7 May	5	VI	Introduction, Decimation by factor D, Interpolation by factor I, Sampling rate conversion by rational factor I/D, Sub band coding of speech signals and its applications, introduction to wavelet & wavelet transform	ETC6DSPW14D0 30521L63-67		A.V. Oppenheim, R.W. Schafer, "Discrete Time Signal Processing", Pearson Education		29/4/22		Rawb
15	10 May-15 May	Sessional II										
16	17 May-21 May	2	VI	Introduction to DSP architecture TMS 320	ETC6DSPW16D1 70521L68-69	Will demonstrate them on kit	A.V. Oppenheim, R. W. Schafer, "Discrete Time Signal Processing", Pearson Education		Taken in practical slot			

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LESSON & TEACHING PLAN for Telecommunication Switching System ENGINEERING

Department of Electronics & TelecommunicationEngineering

Faculty Name: Prof. Anand Deshkar			Year : 2021-22	Sem:- VI	Subject Code: BEETE601T	

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	23 Aug-28Aug 21	5	I	Amplitude Modulation:Base band &carrier communication,Introduction to amplitude modulation,Equation of AM,Generation of AM(DSBFC) and its spectrum				Communication Systems by Kennedy,Davis (Chapter 1,page 1-5,Chapter3,Page 35-50)		23/8/21 23/8/21 24/8/21 24/8/21 28/8/21		
2	30 Aug-4 Sept 21	6	I	Modulation Index,Power relations applied to sinusoidal signals,DSBSC-Multiplier Modulator,Non linear generation,Switching modulator,ring modulator & its spectrum				Communication Systems by Kennedy,Davis(chapter 3 :page no. 62-84)		25/8/21 26/8/21 27/8/21 31/8/21 3/9/21 6/9/21		Paul 16/9/21
3	6 Sept-11	4	I &II	SSBSC,ISB & VSB, Their generation methods& comparison,AM broadcast technical stds.Angle modulation: Concept Types Frequency				Communication Systems by Kennedy,Davis (chapter 4:page		31/8/21 2/9/21 6/9/21 7/9/21		

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	Sept'21			[illegible] narrow band and wide band FM,Modulation index,bandwidth,Phase modulation				
4	13 Sept-18 Sept 21	6	I &II	Bessel's Function and its mathematical analysisGeneration of FM(Direct and indirect method),comparison of FM & PM.Pulse Modulation:Band limited & Time limited signals,narrowband signals & systems		Communication Systems by Kennedy,Davis (chapter 5 : page no. 80 to 88,100-109)	2/10/21	
5	20 Sept-25 Sept 21	5	III	Sampling theorem in time domainNyquist criteria,types,Aliasing &aperture effect. Pulse analog modulationPAM,PWM,PPM.PCM:Generation & reconstruction,Bandwidth requirement of PCM.		Communication Systems by Kennedy,Davis (chapter 15 : page no. 485to499)	13/10/21	
6	27Sept-2 Oct 21	6	III &IV	Differential PCM,Delta modulation adaptive DM Noise:Sources of Noise,Types of Noise,White noise,shot noise,thermal noise,partition noise,flicker noise,burst noise,avalanche noise,SNR		Communication Systems by Kennedy,Davis (chapter 2 : page no. 15to 26)	21/10/21 29/10/21	
7				SESSIONAL - I				
	11Oct-			NOISE FIGURE,NOISE Temperature,friss formula noise bandwidthAM		Communication Systems by Kennedy,Davis	29/10/21	

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	21		V	&FM RECEIVERS:block diagram of AM & FM receivers,Superheterodyne receivers,				(chapter 2: page no26 - 30)&Chapter 6 (page no.119 - 173)			
9	18 Oct-22 Oct 21	6	V	Performance characteristics,Image frequency rejectionPreemphasis,deemphasis AM detection: rectifier detection				Communication Systems by Kennedy,Davis (chapter 5 :page no. 92 - 97Chapter 6:page122-128)	10/11/21		
10		RETEST									
11	25 Oct - 30 Oct 21	5	V	envelop detection,demodulation of DSB SC,SSBSC FM Detection:Foster seely FM detector& fm detection using PLL				Communication Systems by Kennedy,Davis (chapter 15: page no.563-567)	2/12/21		
12	8 Nov-12 Nov	5	VI	Broad band communication links & multiplexing:FDM,TDM,CDM					3/12/21		
13	15 Nov-20 Nov 21	6	VI	Short & medium hall systems: coaxial cable,fibre optic links,microwave links,tropospheric scatter link,Long haul systems: submarine cables				Communication Systems by Kennedy,Davis (chapter 15: page no.568-578)			
14		Internal Practical & Final Submission									
15		SESSIONAL - II									

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CCOEW / ETC/ 20-21 Date: 1/2/ 2022

LESSON & TEACHING PLAN for Telecommunication Switching Systems

Department of Electronics & Telecommunication

Faculty Name: Prof. Anand Deshkar | Year : 2021-22 | Sem:- VI | Subject Code: BEETE803T

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb-5Feb	5	I	principles of manual switching system, electronic telephone, local & central battery system, line switching				J E Flood, telecom switching , traffic, networks		1/2, 2/2, 3/2, 4/2, 5/2, 8/2, 9/2, 10/2, 11/2		
2	7 Feb- 11 Feb22	5	II	Introduction to GSM, architecture, radio subsystem, channel types, GSM frame structure, SDMA-FDMA-TDMA-CDMA, cellular wireless network, wireless LAN ieee 802.11 std, arch ,services Spare division, TDS switching, DCS, Message Switching, Circuit Switching, Manual & electronic, Digital Switching				J E Flood, T switching, traffic & networks		15/2, 16/2, 17/2		Rank
3	14 feb-19 feb	6	II	unit of traffic, traffic measurement, mathe. model, lost call system, traffic performance loss				J E Flood, T switching, traffic & networks		18/2, 21/2, 22/2, 23/2		
4	21 feb-25 feb	5	III	queues in tandem application of delay formulae traffic characteristics arrival distributions holding time distributions loss				J E Flood, T switching, traffic & networks		24/2, 28/2, 2/3, 3/3, 4/3, 5/3, 7/3		Rank

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5	28 Feb-5 Mar	6	III	timming recovery, clock instability, elastic stores jitter measurement, timing inaccuracy, asynchronous multiplexing, waiting time jitter, network				vishwanathan, switching systems	8/3, 9/3, 10/3				Rank
6	7-12Mar	5	IV	pulse stuffing mutual synchronization, network master, master slave synchronization, hierarchical synchronization, network				vishwanathan, switching systems	28/3 - 30/3				Rank
Sessional I Examination 14/03/2022 to 19/03/2022													
7	21 Mar-25 Mar	5	IV	data networks, data transmission in PSTN, data communication architecture, link to link layers, satellite based data networks, LANs, MANs, fibre optic networks, data				Vishwanathan, switching systems	5/4, 6/4, 8/4, 11/4, 12/4, 13/4, 18/4, 19/4				
9	28 mar- 1 april22	5	V	ISDN, network & protocol architecture, transmission channels, user network interfaces, signaling, numbering & addressing, ISDN standards, broadband ISDN, voice data				J E Flood, T switching, traffic & networks	20/4, 21/4, 25/4				Rank
10		RETEST											
11	4 april- 8 april	5	V	mobile telephone services, cellular telephone, frequency reuse, cellular system topology, roaming & handoffs, cellular				vishwanathan, switching systems	26/4, 27/4				Rank
				cellular telephone call processing, cellular telephone systems, digital					28/4, 28/4				

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12	11 april-16 april22	4	V&VI	cellular telephone, single stage networks, gradings, progressive gradings, its traffic capacity, applications, link systems				vishwanathan	29/4			
13	18 april-22 april 22	5	VI	two & three stage networks, call packing, rearrangable networks, nonblocking networks, switching networks, control of switching systems, call				J E Flood, T switching, traffic & networks	29/4			
14	25 april-30 april22			common control, reliability, availability, security								
15	2 may-7 may	SESSIONAL - II										

Time

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CCOEW/ETC / 21-22

Date: 10/ 9 / 2021

LESSON & TEACHING PLAN for Measurements and Instrumentation

Department of Electronics and Telecommunication

Faculty Name: Mrs. Pallavi Ganorkar					Sub: Measurements and Instrumentation		Sec:	Year : 2021-22		Sem:- III
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	13 Sep- 18 Sep	6		Skill Development Workshop						
2	20 Sep- 24 Sep	5	I	Syllabus discussion, Purpose of instrumentation, Basic elements of instrumentation		Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition, Chapter 1 page no. 1-8, Chapter no.3 page no.35-53, chapter 8 page no.192-248				
3	27 Sep- 1 Oct	5		Statistical analysis and measurement of errors						
4	4 Oct- 8 Oct	5		Principle and operation of ammeters, voltmeters and wattmeters, moving iron and moving coil, dynamometer, Multimeter and Energy Meter.						
5	11 Oct- 16 Oct	6		Transducers, classification & selection of transducers, strain gauges, inductive & capacitive transducers, piezoelectric and Hall-effect transducers						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
6	18 Oct- 22 Oct	5		thermisters, thermocouples, photo-diodes,photo-transistors encoder type digital transducers, signal conditioning and Data Acquisition Systems						
7	25 Oct- 30 Oct	Sessional 1								
8	8 Nov- 12 Nov	5	I	Sensors for measurement of Liquid level, Gas flow, liquid flow, Pressure, Humidity, Temperature, Vibration, Acceleration etc.		Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition				
9	15 Nov- 20 Nov	6	II	PMMC galvanometer, dc & ac voltmeter, ammeter, multimeter, watt-hour meter, three phase wattmeter, power factor meter, instrument transformers.		Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition, chapter 13 page no.424-254				
10	22 Nov- 26 Nov	5		Measurement of low, medium and high resistance. General Balance Equation; Circuit diagram; Phasor diagram and Advantages as well as Disadvantages and Applications of Wheat stone, Kelvin, Max-well, Hay, Schering, Weinbridge Potentiometers.						
11	29 Nov- 4 Dec	6	II,III	Measurement of Inductance, capacitance using AC bridges like Anderson, Owens; DeSauty's. Shielding and earthing. Signal conditioning measurement meters,Electronicmultimeter, Q-meter. RF power and voltage measurements.		Electrical Measurement: A.K.Sawhney,				

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
12	6 Dec- 10 Dec	5	III	Measurement of Energy- A.C. single phase and poly-phase induction type energy meters. Oscilloscope: Digital storage oscilloscope – 2 and 4 channel, delay line, multiple trace, Triggering, delayed sweep. HMI systems for SCADA,		DhanpatRai& Sons Publication, 11 Edition				
13	13 Dec- 18 Dec	6	IV	Frequency, and Time measurement, signal analysis. frequency counters – measurement of frequency and time interval – extension of frequency range. Function generators – RF signal generators – Sweep generators		Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition				
14	20 Dec- 24 Dec	Sessional 2								
15	27 Dec- 31 Dec	5	IV	Frequency synthesizer –wave analyzer – Harmonic distortion analyzer – spectrum analyzer, Recent trends/developments.		Electrical Measurement: A.K.Sawhney, DhanpatRai& Sons Publication, 11 Edition				
16			V	What Is Telemetry? How Telemetry Works, Benefits of Telemetry, Challenges.						

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CCOEW/ETC / 21-22

Date: 18/ 8 / 2021

LESSON & TEACHING PLAN for Microprocesssor and Microcontroller

Department of Electronics and Telecommunication

Faculty Name: Mrs. Pallavi Ganorkar							Sub: Microprocessor and Microcontroller		Sec:	Year : 2021-22		Sem:- V
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	16 Aug- 21 Aug	6		Skill Development Workshop								
2	23 Aug- 27 Aug	5	I	8086/8088 microprocessor, Pin diagram, Architecture, features and operating modes, Clock generator 8284				Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 1-13		23|8|21 – 1|9|21		
3	30 Aug- 4 Sep	6	I, II	memory organization & interfacing, Addressing modes, complete instruction set, Assembly language programming of 8086				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 35-43		21|9|21 – 9|9|21	14|9|21	Ray
4	6 Sep- 9 Sep	4	II	Assembly language programming of 8086 contd., Interrupt structure, I/O interfacing				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 81-136		16|9|21		
5	13 Sep- 18 Sep	6		Interfacing of peripherals like 8255 PPI, multiplexed 7-seg display & matrix keyboard interface using 8255, Programmable Keyboard/Display controller 8279, Organization,				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 174-220, 253-264		19|10|21		Ray

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	20 Sep-24 Sep	5	II, III	Working modes, command words & interfacing, Programmable interval timer/counter 8254; Architecture				Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 223-236		27/10/21		
7	27 Sep- 1 Oct	5	III	working modes, interfacing 8259 PIC, Organization, control words, interfacing, cascading of 8259's,				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 236-253		9/11/21		Rank
8	4 Oct-9Oct	Sessional 1										
9	11 Oct-16 Oct	6	III	Serial communication, Classification & transmission formats, USART 8251, Pins & block diagram, interfacing with 8086 & programming				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 264-311		15/11/21		
10	18 Oct-22 Oct	5	IV	8086 maximum mode pin diagram, Closely coupled & loosely coupled multiprocessor system, 8087 Numeric coprocessor, architecture, interfacing with 8086, instruction set				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 320-338		23/11/21	DMAC 8237, Architecture, interfacing & programming, Introduction to Pentium	Rank
11	25 Oct-30 Oct	6	V	Introduction to 8051 microcontroller; Pin diagram, architecture, features & operation, Ports, memory organization, SFR's, Flags, Counters/Timers, Serial ports				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 556-563		26/11/21		
12	1 Nov- 6 Nov	Diwali Vacation										

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
13	8 Nov-12 Nov	5	V	Interfacing of external RAM & ROM with 8051. 8051 Interrupt structure, Interrupt vector table with priorities, enabling & disabling of interrupts				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 563-569		2/12/21		
14	15 Nov-20 Nov	6	VI	Instruction set of 8051; data transfer, logical, arithmetic & branching instructions, Addressing modes, Assembly language programming examples, counter/timer programming in various modes				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 567-590		26/11/21		
15	22 Nov-26 Nov	5		Serial communication, Operating modes, serial port control register, Baud rates. I/O expansion using 8255, Interfacing keyboard				Advanced Microprocessors and Peripherals by K M Bhurchandi and A K Ray page no. 632-651		4/12/21		
16	29 Nov-30 Nov	2		LED display, ADC & DAC interface, stepper motor interface				The 8051 Microcontroller and Embedded Systems page no. 299-348		24/12/21		
17	1 Dec- 8 Dec	Sessional 2										

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Academic year

2020-21

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/ME / 20-21

Date: 01/02/ 2021

LESSON & TEACHING PLAN for Applied Maths-IV

Department of ~~Mechanical Engineering~~ E & TC

Name: Prof. Pravin Gorantiwar						Sub: Applied Maths III		E & TC	Year : 2020-21		Sem:-IV
Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
01 Feb - 06 Feb	6	I	UNIT – I: NUMERICAL METHODS Error Analysis, Solution of Algebraic and Transcendental Equations Method of False position Newton–Raphson method and their convergence Newton–Raphson method for multiple roots Solution of system of simultaneous linear equations: Gauss elimination method Gauss Jordan method	ETC3AM3W01D010220L01 ETC3AM3W01D020220L02 ETC3AM3W01D030220L03 ETC3AM3W01D040220L04 ETC3AM3W01D050220L05 ETC3AM3W01D060220L06		PDF-NM-01		Engineering Mathematics by Tembhekar & Shobhane		6/2/2021		
08 Feb - 13 Feb	3	I	Crout's method Gauss-Seidel method. Numerical solution of ordinary differential equations: Taylor's series method	ETC3AM3W02D070220L07 ETC3AM3W02D090220L08 ETC3AM3W02D100220L09		PDF-NM-01		Engineering Mathematics by Tembhekar & Shobhane		10/2/2021		
15 Feb - 20 Feb	4	I	Runge- Kutta 4th order method Euler's Modified Method Milne s Predictor- Corrector method Runge- Kutta method to solve Simultaneous first order differential equations	ETC3AM3W03D160820L10 ETC3AM3W03D170820L11 ETC3AM3W03D180820L12 ETC3AM3W03D200820L13		PDF-NM-01		Engineering Mathematics by Tembhekar & Shobhane		16/2/2021	18/02/21	

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:K	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	22 Feb - 27 Feb	3	I/II	Largest Eigen value and Eigen vector by Iteration method UNIT –II: Z-TRANSFORM Definition , Convergence of Z-transform and	ETC3AM3W04D220220L14 ETC3AM3W04D240220L15 ETC3AM3W04D250220L16		PDF-Z transform-02		Engineering Mathematics by Tembhekar & Shobhane		25/2/2021		
	01 Mar - 06 Mar	5	II	Properties Inverse Z-transform by Partial Fraction Method Power Series Expansion Convolution of two sequences	ETC3AM3W05D010320L17 ETC3AM3W05D020320L18 ETC3AM3W05D030320L19 ETC3AM3W05D040320L20 ETC3AM3W05D050320L21		PDF-Z transform-02				4/3/2021		
	26 Apr - 2 may	4	II/IV	Solutions of Difference Equations with Constant Coefficients by Z-transform UNIT – IV: THEORY OF PROBABILITY Axioms of Probability, Conditional Probability, Baye's Rule	ETC3AM3W06D270420L22 ETC3AM3W06D280420L23 ETC3AM3W06D290420L24 ETC3AM3W06D300420L25		PDF-TOP - 04		Engineering Mathematics by Tembhekar & Shobhane		30/04/21	27/04/21	
	03 June - 09 June	6	IV	Random variables: Discrete and Continuous random variables, Probability function and Distribution function, Joint distributions,	ETC3AM3W07D030520L26 ETC3AM3W07D040520L27 ETC3AM3W07D050520L28 ETC3AM3W07D060520L29 ETC3AM3W07D070520L30 ETC3AM3W07D080520L31		PDF-TOP - 04		Engineering Mathematics by Tembhekar & Shobhane		8/5/2021		
	03 June - 09 June	4	IV/V	Independent Random Variables, Conditional Distributions. UNIT – V: MATHEMATICAL EXPECTATIONS Definition Mathematical Expectation, Functions of Random Variables, Variance and Standard Deviation	ETC3AM3W08D030520L32 ETC3AM3W08D040520L33 ETC3AM3W08D050520L34 ETC3AM3W08D060520L35		PDF-TOP - 05		Engineering Mathematics by Tembhekar & Shobhane		15/05/21		
	17 May - 23 May	6											

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Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
24 May - 30 May	5	V/VI	Moments, Moment generating function, Covariance, Correlation Coefficient, Conditional Expectations, Other measures of central tendency and dispersion, Skewness and Kurtosis UNIT – VI: PROBABILITY DISTRIBUTIONS Binomial distribution, Poisson distribution	ETC3AM3W10D240520L36 ETC3AM3W10D250520L37 ETC3AM3W10D270520L38 ETC3AM3W10D280520L39 ETC3AM3W10D290520L40		PDF-TOP - 05/6		Engineering Mathematics by Tembhekar & Shobhane 11.1 to 11.7		29/05/21	25/05/21	
31 May - 06 June	5	VI/III	, Normal distribution, Relation between Binomial, Poisson and Normal distribution, Central Limit theorem, Exponential Distribution . UNIT - IV: SPECIAL FUNCTIONS AND SERIES SOLUTION Series solution of differential equation by Frobanius metho Bessel's functions	ETC3AM3W11D310520L41 ETC3AM3W11D010620L42 ETC3AM3W11D020620L43 ETC3AM3W11D030620L44 ETC3AM3W11D040620L45 ETC3AM3W11D050620L46		PDF-SF -4		Engineering Mathematics by Tembhekar & Shobhane		4/6/2021		
07June - 12 June	5	III	Legendre's polynomials Recurrence relations Rodrigue's formula Generating functions, Orthogonal properties of Jn(x) and Pn(x).	ETC3AM3W12D310520L47 ETC3AM3W12D010620L48 ETC3AM3W12D020620L49 ETC3AM3W12D030620L50		PDF-SF -4		Engineering Mathematics by Tembhekar & Shobhane		10/6/2021		
14 June 20-June	Revision											
21 June 26-June	Sessional II											

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CCOEW/ ETC/ 20-21

Date: 01/02/ 2021

LESSON & TEACHING PLAN for SIGNALS AND SYSTEMS

Department of Electronics & TelecommunicationEngineering

Faculty Name: Dr. Kanchan Wagh | Sub: SIGNALS AND SYSTEMS | Sec: A | Year : 2020-21 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	01 FEB - 06 FEB 21	6	I	Introduction to CO PO PSO	ETC4S&SW01D010221L01	S&S_ppt_01			Signals and Systems Simon Haykin				
				Analysis of Signals	ETC4S&SW01D020221L02								
				set of orthogonal signals	ETC4S&SW01D030221L03								
				Fourier series	ETC4S&SW01D040221L04								
				representation of periodic signals	ETC4S&SW01D050221L05								
				Fourier transform of periodic and non-periodic signals,	ETC4S&SW01D060221L06								
2	08 FEB - 12 FEB 21	5		Properties of FT	ETC4S&SW02D080221L07								
				domain	ETC4S&SW02D090221L08								
				Theory of Sampling	ETC4S&SW02D100221L09								
				Signal	ETC4S&SW02D110221L10								
				Problem Soving	ETC4S&SW02D120221L11								
3	15 FEB - 20 FEB 21	6	II	Probability	ETC4S&SW03D150221L12	S&S_ppt_02			Signals and Systems Simon Haykin				
				random variables and stochastic processes	ETC4S&SW03D650221L13								
				Review of probability theory	ETC4S&SW03D170221L14								
				random variables	ETC4S&SW03D180221L15								
				distribution function	ETC4S&SW03D190221L16								
				Random processes,	ETC4S&SW03D200221L17								
4	22 FEB - 26 FEB 21	6		periodic processes	ETC4S&SW04D220221L18								
				stationary processes.	ETC4S&SW04D230221L19								
				correlation	ETC4S&SW04D240221L20								
				applications to signal analysis	ETC4S&SW04D250221L21								
				transmission,	ETC4S&SW04D260221L22								

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	18 APRIL - 24 APRIL 21		UNIVERSITY EXAM OF 5TH SEM											
5	26 APRIL - 1 MAY 21	6	III	Inter symbol Interference	ETC4S&SW05D260421L24	S&S_ppt_03			Modern Digital & Analog Communication systems by B.P.Lathi					
				Inter symbol Interference	ETC4S&SW05D270421L25									
				PSD of Digital signals	ETC4S&SW05D280421L26									
				PSD of Digital signals	ETC4S&SW05D290421L27									
				PSD of Digital signals	ETC4S&SW05D300421L28									
				coding, RZ, NRZ, Polar	ETC4S&SW06D010521L29									
6	3 MAY - 8 MAY 21	6	III	coding, RZ, NRZ, Polar	ETC4S&SW06D030521L30				Modern Digital & Analog Communication systems by B.P.Lathi					
				coding, RZ, NRZ, Polar	ETC4S&SW06D040521L31									
				Manchester coding Schemes.	ETC4S&SW06D050521L32									
				Manchester coding Schemes.	ETC4S&SW06D060521L32									
				Nyquists's first & second Criterion	ETC4S&SW06D070521L32									
					ETC4S&SW06D080521L33									
8	10 MAY - 15 MAY 21	6	III	Criterion	ETC4S&SW08D100521L34									
				Pulse shaping.	ETC4S&SW08D110521L35									
				tapped delay line filters and adaptive equalization	ETC4S&SW08D240521L36									
					ETC4S&SW08D250521L37									
				tapped delay line filters and adaptive equalization	ETC4S&SW08D260521L38									
					ETC4S&SW09D290521L39									
9	17 MAY - 21 MAY 21		SESSIONAL - I											
10	24 MAY - 29 MAY 21	6	IV	Introduction of Amplitude Modulation	ETC4S&SW09D240521L40	S&S_ppt_04			Modern Digital & Analog Communication systems by B.P.Lathi					
				Introduction of Amplitude Modulation	ETC4S&SW09D250521L41									
				modulation	ETC4S&SW09D260521L42									
				Difference between both	ETC4S&SW09D270521L43									
				Equations of both	ETC4S&SW09D280521L44									
11	31 MAY - 5 JUN 21	6	IV	Derivation	ETC4S&SW11D290521L46				Signals and Systems Simon Haykin					
				Modulation techniques	ETC4S&SW11D310521L47									
				Modulation techniques	ETC4S&SW11D010621L48									
				Elementary theory of SSB,	ETC4S&SW11D020621L49									
				Elementary theory of SSB,	ETC4S&SW11D030621L50									
				calculation in SSBSC	ETC4S&SW12D040621L51									
				calculation in SSBSC	ETC4S&SW12D050621L52									
12	7 JUN- 12 JUN 21	6		DSB and noise calculation, noise calculation in SSBSC	ETC4S&SW12D070621L53									
				DSB with carrier, Square law Demodulation	ETC4S&SW12D080621L54									
				DSB with carrier, Square law Demodulation	ETC4S&SW12D090621L55									
					ETC4S&SW12D100621L56									

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				Envelope Demodulator, Noise in FM reception	ETC4S&SW12D110621L57										
				Envelope Demodulator, Noise in FM reception	ETC4S&SW12D120621L58										
	14 JUN-19 JUN 21	6	V	Quantization noise	ETC4S&SW12D140621L59	S&S_ppt_05			Signals and Systems Simon Haykin						
				types of Quantization –Uniform and Non-Uniform,	ETC4S&SW12D150621L60										
				modulation	ETC4S&SW12D160621L61										
				Adaptive Delta modulation	ETC4S&SW12D170621L62										
				filter	ETC4S&SW12D180621L63										
				filter detection of binary signals	ETC4S&SW12D190621L64										
	21 JUN-26 JUN 21	6		decision threshold	ETC4S&SW12D210621L65										
				system	ETC4S&SW12D220621L66										
				system	ETC4S&SW12D230621L67										
				Communication using M-array	ETC4S&SW12D240621L68										
				Digital Communication	ETC4S&SW12D250621L69										
				Problem Solving	ETC4S&SW12D260621L70										
	28 JUN-3 JULY21	6	VI	Information theory	ETC4S&SW12D280621L71	S&S_ppt_06			Signals and Systems Simon Haykin						
				channel capacity of discrete & continuous channels	ETC4S&SW12D290621L72										
					ETC4S&SW12D300621L73										
				Error control coding	ETC4S&SW12D010721L73										
				Hamming distance	ETC4S&SW12D020721L74										
	5 JULY-10 JULY 21	6		Linear block codes	ETC4S&SW12D030721L75										
				CRC, Convolution Codes	ETC4S&SW12D050721L76										
				ECC Codes Introduction	ETC4S&SW12D060721L77										
				Convolution & ECC Codes utilization	ETC4S&SW12D070721L78										
				Codes for error correcting	ETC4S&SW12D080721L79										
				Problem Solving	ETC4S&SW12D090721L80										
				Problem Solving	ETC4S&SW12D100721L81										
13	12 JULY - 17 JULY 21	6		REVISION											
14			Internal Practical & Final Submission												
15	19 JULY - 23 JULY 21		SESSIONAL - II												

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CCOEW/ETC / 20-21

Date: 31/ 01 / 2021

LESSON & TEACHING PLAN for ELECTROMAGNETIC FIELDS

Department of Electronics & Tele Communication Engineering

Faculty Name: Prof.S.Bhattacharya | Code: BEETE403T | Sub: ELECTROMAGNETIC FIELDS | Year : 2020-21 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	01st Feb to 6th Feb	6	1	Introduction to Cartesian Coordinate system	TE4EMFW01D010221L01				Fundamentals of Electromagnetic Fields by Prof. Ajay Tinguria Reprint Edition 2010 Chapter No 1, Page no 1to 63		01/02		
				Introduction to Cartesian Coordinate system	TE4EMFW01D020221L02						02/02		
				Introduction to Cylindrical Coordinate system	TE4EMFW01D030621L03						03/02		
				Introduction to Cylindrical Coordinate system	TE4EMFW01D040221L04						04/02		
				Introduction to Spherical Coordinate system	TE4EMFW01D050221L05						05/02		
				Introduction to Spherical Coordinate system	TE4EMFW01D060221L06						06/02		
2	08th Feb to 12th Feb	5		Introduction to electric field intensity	TE4EMFW02D080221L07						08/02		
				Gauss's Law	TE4EMFW02D090221L08						09/02	Assignment 1	
				Gauss's Law	TE4EMFW02D100221L09						10/02		
				Divergence Theorem	TE4EMFW02D110221L10						11/02		
				Electric Potential & Potential Gradient	TE4EMFW02D120221L11						12/02		
3	15th Feb to 20th Feb	5		Current Density & Continuity Equation	TE4EMFW03D150221L12						15/02		
				Current Density & Continuity Equation	TE4EMFW03D160221L13						16/02		
				Biot-Savert's Law	TE4EMFW03D170221L14						17/02		

Faculty in Charge **HOD**

Cummins College of Engineering for Women, Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	rence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	Feb		2	Biot-Savert's Law	TE4EMFW03D1 80221L15				Fundamentals of Electromagnetic Fields by Prof. Ajay Tinguria Reprint Edition 2010 Chapter No 7, Page no 327to 391		20/02		
				Ampere's Circuital Law and its application	TE4EMFW03D2 00221L16						23/02		
4	22nd Feb to 26th Feb	5		Ampere's Circuital Law and its application	TE4EMFW04D2 20221L17						24/02		
				Magnetic flux and flux density	TE4EMFW04D2 30221L18						25/02		
				Magnetic flux and flux density	TE4EMFW04D2 40221L19						26/02		
				Scaler magnetic potential	TE4EMFW04D2 50221L20						01/03		
				Vector magnetic potential	TE4EMFW04D2 60221L21						02/03		
			3	Maxwell's equations for non time varying fields	TE4EMFW05D0 10321L22				Fundamentals of Electromagnetic Fields by Prof. Ajay Tinguria Reprint Edition 2010 Chapter No 8, Page no 433to 467		03/03		
				Maxwell's equations for non time varying fields	TE4EMFW05D0 20321L23						04/03		
5	01st Mar to 06th Mar	6		Maxwell's equations for non time varying fields	TE4EMFW05D0 30321L24						05/03		
				The continuity equation	TE4EMFW05D0 40321L25						26/04		
				Maxwell's equations for time varying fields	TE4EMFW05D0 50321L26						27/04		
				Maxwell's equations for time varying fields	TE4EMFW05D0 60321L27						28/04		
				Maxwell's equations for time varying fields	TE4EMFW06D0 80321L28						29/04		
6	08th Mar to 12th Mar	4		Example of a time varying closed path in a time constant magnetic field	TE4EMFW06D0 90321L29						30/04		
				Example of a time varying closed path in a time constant magnetic field	TE4EMFW06D1 00321L30						02/05		
				Idea about Retarded Potentials	TE4EMFW06D1 20321L31						10/05		

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	rence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
7	15th Mar to 20th Mar	Sessional I Examination											
8	22nd Mar to 26th Mar	5	4	Introduction to Electromagnetic waves and its	TE4EMFW08D2 20321L32				Fundamentals of Electromagnetic Fields by Prof. Ajay Tinguria Reprint Edition 2010 Chapter No 10, Page no 468to 525		11/05		
				Wave propogation in free space	TE4EMFW08D2 30321L33						13/05		
				Wave propogation in a perfect dielectric and a perfect conductor	TE4EMFW08D2 40321L34						18/05	Assignment 2	
				Skin effect	TE4EMFW08D2 50321L35						19/05		
				Poynting Vector and Poynting Theorem	TE4EMFW08D2 60321L36						15/05		
9	29th Mar to 03rd Apr	4		Poynting Vector and Poynting Theorem	TE4EMFW09D3 00321L37						23/05		
				Reflection of Uniform plane wave at normal incidence plane	TE4EMFW09D3 10321L38						25/05		
				Refraction of Uniform plane wave at normal incidence plane	TE4EMFW09D0 10421L39						26/05		
				Reflection at oblique incident angle	TE4EMFW09D0 30421L40						26/05		
10	05th Apr to 09th Apr	5	5	Introduction to Wave guides	TE4EMFW10D0 50421L41				Fundamentals of Electromagnetic Fields by Prof. Ajay Tinguria Reprint Edition 2010 Chapter No 10, Page no 468to 525		27/05		
				Wave equation in Cartesian coordinate	TE4EMFW10D0 60421L42						27/05		
				Wave equation in Cartesian coordinate	TE4EMFW10D0 70421L43						02/06		
				Rectangular Wave guides	TE4EMFW10D0 80421L44						03/06		
				TE, TM, TEM waves in rectangular guides	TE4EMFW10D0 90421L45						03/06		
				TE, TM, TEM waves in rectangular guides	TE4EMFW11D1 20421L46						04/06	Assignment 3	
	12th Apr			introduction to Wave Impedance	TE4EMFW11D5 0421L47						04/06		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
11	to 17th Apr	4		Losses in wave guide	TE4EMFW11D160421L48						07/04		
				Introduction to circular waveguide	TE4EMFW11D170421L49						07/04		
12	19th Apr to 23rd Apr	5	6	Introduction to radiation, Retarded potential	TE4EMFW12D190421L50				Fundamentals of Electromagnetic Fields by Prof. Ajay Tinguria Reprint Edition 2010 Chapter No 11, Page no 526 to 577		08/04		
				Electric and Magnetic fields due to oscillating dipole	TE4EMFW12D200421L51						08/04		
				Power radiated and radiation resistance	TE4EMFW12D210421L52						09/04		
				Power radiated and radiation resistance	TE4EMFW12D220421L53						09/04		
				Applications to short monopole and dipole	TE4EMFW12D230421L54						02/07		
13	26th Apr to 01st May	6		Applications to short monopole and dipole	TE4EMFW13D260421L55						02/07		
				Antenna efficiency, Beam width	TE4EMFW13D270421L56						04/07		
				Introduction to Radiation intensity	TE4EMFW13D280421L57						04/07		
				Introduction to Radiation intensity	TE4EMFW13290421L58						05/07		
				Directive Gain, Power gain	TE4EMFW13D300421L59						05/07		
				Idea on Front to Back ratio	TE4EMFW13D010521L60						08/07		
14	03rd May to 07th May	5	R	Revision of UNIT 1	TE4EMFW14D030521L61						10/07		
				Revision of UNIT 2	TE4EMFW14D040521L62						10/07		
				Revision of UNIT 3	TE4EMFW14D050521L63						10/07		
				Revision of UNIT 4	TE4EMFW14D060521L64						10/07		
				Revision of UNIT 5 & 6	TE4EMFW14D070521L65						10/07		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	ference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completi on Date	Assignment/ Tutorial Date	AC's sign
15	10th May to 15th May	SESSIONAL II EXAMINATION											

S.BHATTACHARYA
(Faculty Incharge)

Faculty in Charge

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Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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CCOEW/ETC / 20-21

Date: 31/ 01 / 2021

LESSON & TEACHING PLAN for Power Device & Machines

Department of Electronics & Tele Communication Engineering

Faculty Name: Prof.S.Bhattacharya					Sub Code: BEETE402T			Sub: Power Devices & Machines			Year : 2020-21		Sem:- IV
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	01st Feb to 6th Feb	6	5	Basic idea of three phase transformer, Construction	TE4PDMW01D01 0221L01				Text book of Electrical Technology by B.L. Thereja (Vol 2), 21st Edition, Chapter No 8		01/02		
				Delta to Delta Connection	TE4PDMW01D02 0221L02						02/02		
				Star to Star connection	TE4PDMW01D03 0621L03						04/02		
				Star to Delta Connection, Delta to Star connection	TE4PDMW01D04 0221L04						04/02		
				Open Delta Connection	TE4PDMW01D05 0221L05						05/02		
				Scott connection	TE4PDMW01D06 0221L06						06/02		
2	08th Feb to 12th Feb	5		Parallel operation of transformer	TE4PDMW02D08 0221L07						08/02		
				Principle operation of Three phase Induction Motor	TE4PDMW02D09 0221L08						09/02		
				Necessity of Starter, DOL starter	TE4PDMW02D10 0221L09						10/02		
				Auto transformer starter, Star delta Starter	TE4PDMW02D11 0221L10						11/02		
				Speed Control Technique of Induction Motor	TE4PDMW02D12 0221L11						12/02		
	15th Feb			Principle operation of DC motor	TE4PDMW03D15 0221L12						15/02		
				Different types of DC motor	TE4PDMW03D16 0221L13						17/02		

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Cummins College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
3	15th Feb to 20th Feb	5	6	Speed control of DC shunt motor, Flux control Method	TE4PDMW03D17 0221L14				Text book of Electrical Technology by B.L.Thereja(Vol 2), 21st Edition, Chapter No 11, Page 3.1 to 3.58		20/02		
				Armature control Method	TE4PDMW03D18 0221L15						23/02	Assign-1	
				Voltage control method	TE4PDMW03D20 0221L16						24/02		
4	22nd Feb to 26th Feb	5		Speed control of DC series motor	TE4PDMW04D22 0221L17						25/02		
				Flux control method	TE4PDMW04D23 0221L18						01/03		
				Rheostatic control method	TE4PDMW04D24 0221L19						02/03		
				Construction and working of Universal motor	TE4PDMW04D25 0221L20						03/03		
				Characteristics and application of Universal motor	TE4PDMW04D26 0221L21						04/03		
5	01st Mar to 06th Mar	6	1	SCR Construction, Operation	TE4PDMW05D01 0321L22				Text book on Power Electronics by Deodatta Singare, 4th Edition 2010, Chp No 3, page 3.1 to 3.58		05/03		
				Two Transistor Analogy	TE4PDMW05D02 0321L23						26/04		
				Static and Dynamic Char,Switching Char	TE4PDMW05D03 0321L24						27/04		
				Gate Char, Triggering Requirement	TE4PDMW05D04 0321L25						28/04		
				Isolation Technique	TE4PDMW05D05 0321L26						29/04		
				Pulse Triggering and brust Triggering	TE4PDMW05D06 0321L27						30/04		
6	08th Mar to 12th Mar	4		Construction and Operation Of TRIAC	TE4PDMW06D08 0321L28						02/05		
				Steady state Char, Triggering Modes	TE4PDMW06D09 0321L29						08/05		
				Principle of DIAC	TE4PDMW06D10 0321L30						04/05		
				Phase Control Using TRIAC	TE4PDMW06D12 0321L31						05/05		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
7	15th Mar to 20th Mar	Sessional I Examination											
8	22nd Mar to 26th Mar	5	2	Construction, Operation of IGBT	TE4PDMW08D22 0321L32				Text book on Power Electronics by Deodatta Singare, 4th Edition 2010, Chp No 2, page 2.3 to 2.4		06/05		
				Steady stage char, Switching Char	TE4PDMW08D23 0321L33						07/05		
				Safe Operating area, Base drive circuit for power BJT	TE4PDMW08D24 0321L34						09/05		
				Construction, Operation of Power MOSFET	TE4PDMW08D25 0321L35						10/05		
				Static Char, Switching Char	TE4PDMW08D26 0321L36						11/05		
9	29th Mar to 03rd Apr	4		Forward and Reverse Bias operation, Gate drive circuit	TE4PDMW09D30 0321L37						13/05	Assign-2	
				Construction and Operation of GTO	TE4PDMW09D31 0321L38						15/05		
				Turn off mechanism of GTO	TE4PDMW09D01 0421L39						23/05		
				Various applications of GTO	TE4PDMW09D03 0421L40						25/05		
10	05th Apr to 09th Apr	5	3	Single phase half wave controlled Rectifier	TE4PDMW10D05 0421L41				Text book on Power Electronics by Deodatta Singare, 4th Edition 2010, Chp No 6, page 6.1 to 6.177		26/05		
				Single phase full wave controlled Rectifier	TE4PDMW10D06 0421L42						27/05		
				Bridge configuration with R and R-L load	TE4PDMW10D07 0421L43						02/06		
				Effect of free wheeling diode	TE4PDMW10D08 0421L44						03/06		
				Three phase half wave controlled rectifier	TE4PDMW10D09 0421L45						04/06		
				Three phase full wave controlled rectifier	TE4PDMW11D12 0421L46						07/06		
11	12th Apr to 17th	4		Basic Principle and operation of AC to AC converter	TE4PDMW11D50 421L47						08/06		

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	Apr			Single phase AC voltage controller for R and R-L load	TE4PDMW11D16 0421L48						09/04		
				Working of three phase AC-AC controller with R load	TE4PDMW11D17 0421L49						09/04		
12	19th Apr to 23rd Apr	5	4	Working Principle of Chopper	TE4PDMW12D19 0421L50				Text book on Power Electronics by Deodatta Singare, 4th Edition 2010, Chp No 8 &9, page 8.1 to 9.55		09/04		
				Types of Chopper, Step up and Step down Chopper	TE4PDMW12D20 0421L51						11/04		
					TE4PDMW12D21 0421L52						11/04		
				Class A, Class B Chopper	TE4PDMW12D22 0421L53						11/04		
				Class C, Class D Chopper	TE4PDMW12D23 0421L54						02/07		
13	26th Apr to 01st May	6		Class E Chopper, Control Strategies	TE4PDMW13D26 0421L55						02/07		
				Classification of Inverter	TE4PDMW13D27 0421L56						02/07	Assign-3	
				Working principle of Single phase half bridgeinverter with R and R-L	TE4PDMW13D28 0421L57						04/07		
				Working principle of Single phase Full bridgeinverter with R and R-L	TE4PDMW13290 421L58						04/07		
				Three Phase Bridge inverter for resistive load	TE4PDMW13D30 0421L59						05/07		
				Three Phase Bridge inverter for resistive load	TE4PDMW13D01 0521L60						05/07		
14	03rd May to 07th May	5	R	Revision of Unit 1	TE4PDMW14D03 0521L61						05/07		
				Revision of Unit 2	TE4PDMW14D04 0521L62						06/07		
				Revision of Unit 3	TE4PDMW14D05 0521L63						06/07		
				Revision of Unit 4	TE4PDMW14D06 0521L64						12/07		
				Revision of Unit 5 & 6	TE4PDMW14D07 0521L65						12/07		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
15	10th May to 15th	SESSIONAL II EXAMINATION											

S.BHATTACHARYA
(Faculty Incharge)

Faculty in Charge

HOD

Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Hingna, Nagpur-441110

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CCOEW/ETC / 20-21

Date: 29/ 1 /2021

LESSON & TEACHING PLAN for Digital Signal Processing

Department of Electronics and Telecommunication

Faculty Name: Mrs. Pallavi Ganorkar | Sub: Digital Signal Processing | Sec: | Year : 2020-21 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	1 Feb-6 Feb	6	1	Basic elements of DSP and its requirement, Advantages of Digital over analog signal processing, sampling theorem, sampling process and reconstruction of sampling data	ETC6DSPW01D01 0221L01-06			Verification on MATLAB	J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		4/2/0		
2	8 Feb-12 Feb	5		Discrete time signals & systems: Discrete time signals & systems, classification of discrete time signals and systems, LTI systems	ETC6DSPW02D08 0221L07-11			Verification on MATLAB			8/2/0	20/2/2	
3	15 Feb-20 Feb	5	I,II	linear convolution, Cross Correlation, Autocorrelation. The Z-transform: Definition, properties of the region of convergence for the Z-transform	ETC6DSPW03D15 0221L12-16			Verification on MATLAB	J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		20/2/2		
4	22 Feb-26 Feb	5	II	Z-transform properties, Inverse Z-transform, Parseval's theorem	ETC6DSPW04D22 0221L17-21						25/2/2		
5	1 Mar-6 Mar	6	II,III	unilateral Z-transform. Definition and properties of DFT, IDFT, Relation between DFT and Z–Transform	ETC6DSPW05D01 0321L22-27								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
6	5 Mar-12 Mar	6	III	Radix- 2 FFT algorithms, Linear filtering methods based on DFT, circular convolution	ETC6DSPW06D05 0321L28-33			Verification on MATLAB			3/5/21		
7	15 Mar-20 Mar	Sessional I											
8	22 Mar-26 Mar	5	III	Frequency analysis of discrete time signals using DFT, Gortzel algorithm	ETC6DSPW08D22 0321L34-38				J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		7/5/21	24/5/21	
9	29 Mar-3 Apr	4	IV	Filter design methods – Approximation of derivatives, Impulse invariance, bilinear transformation,	ETC6DSPW09D29 0321L39-42			Verification on MATLAB			24/5/21		
10	5 Apr-9 Apr	5		characteristics & designing of Butterworth, Chebyshev filters, frequency transformations	ETC6DSPW10D05 0421L43-47						25/5/21		
11	12 Apr-17 Apr	4		IIR filter structuresDirect form I-II, transpose form, parallel form, cascade, Lattice and Lattice-ladder structures	ETC6DSPW11D12 0421L48-51			Verification on MATLAB			27/5/21		
12	19 Apr-23 Apr	5	V	Symmetric and antisymmetric FIR filters, Linear phase FIR filter, design of FIR filters using windows (Rectangular, Bartlett, Hanning, Hamming & Blakman)	ETC6DSPW12D19 0421L52-56			Verification on MATLAB	J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		2/6/21		
13	26 Apr-1 May	6		frequency sampling method, FIR differentiators, FIR filter structures	ETC6DSPW13D26 0421L57-62			Verification on MATLAB			3/6/21		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
14	3 May-7 May	5	VI	Introduction, Decimation by factor D, Interpolation by factor I, Sampling rate conversion by rational factor I/D, Sub band coding of speech signals and its applications, introduction to wavelet & wavelet transform	ETC6DSPW14D03 0521L63-67				A.V. Oppenheim, R.W. Schafer, "Discrete Time Signal Processing", Pearson Education		14/6/21		
15	10 May-15 May	Sessional II											
16	17 May-21 May	2	VI	Introduction to DSP architecture TMS 320	ETC6DSPW16D17 0521L68-69			Will demonstrate them on kit	A.V. Oppenheim, R.W. Schafer, "Discrete Time Signal Processing", Pearson Education		11/6/21		

Sub. Teacher

Academic coordinator

Faculty in Charge

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Date: 01/02/ 2021

LESSON & TEACHING PLAN for Digital Communication

Department of Electronics & TelecommunicationEngineering

Faculty Name: Ms. Kanchan Wagh | Year : 2020-21 | Sem:- VI | Subject Code: BEETE604T

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	15 April - 20 April 21	6	I	Review of Random variables, PDFs & CDFs, Central limit Theorem. Model of digital communication system,	DCOM_ppt_01 DCOM_handwritten_notes_pdf_01		using ICT tool, will cover some topics	Digital communication: by Simon Haykin			8/10/2020	
2	22 April - 27 April 21	5		Gram Schmitt Orthogonalization procedure, signal space concept, Geometric interpretation of signals								
3	29 April- 8 May 21	6		probability of error, correlation receiver, matched filter receiver S			NPTEL Lecture					
		4										

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4	10 May - 15 May 21			SESSIONAL - I								
5	17 May - 22 May 21	6	II	Source coding Theorem, Huffman coding-Z encoding algorithm,rate distortion theory for optimum quantization, scalar & vector quantization.Waveform coding methods: ADPCM, Adaptive Sub-Band & Transform coding, LP & CELP coding.,	DCOM_handwritten_notes_pdf_02	Source coding theorem : NPTEL video link https://www.youtube.com/watch?v=aVD1kmBJSsk	sampling and quantization will explain with matlab coding	Digital Communication:B. P. Lathi Pg. No. 216-220				
	24 May - 29 May	6										
6	31 May - 5 Jun 21	6	III	Coherent Binary: QPSK, MSK, Gaussian MSK, DPSK, Memory less modulation methods linear modulation with memory, nonlinear modulation methods with memory: CPFSK, CPM.	DCOM_handwritten_notes_pdf_03		Will show matlab simulink simulation of FSK using Matlab	Digital communication: by Simon Haykin				
8	7 Jun - 12 Jun 21	6					will organize Industry persons expert lecture on topic Modulation schemes	Digital communication: by Simon Haykin				
9	14 jun - 19 Jun 21	6	IV	Introduction to Galois field, Construction of Galois field GF (2 m) & its basic properties. Types of error control: Forward error correction (FEC), Automatic repeat request system (ARQ). Convolution encoding and decoding distance properties, Viterbi algorithm and Fano algorithm	DCOM_handwritten_notes_pdf_04		NPTEL Lecture	Digital Communication: Simon Haykin				

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11	21 Jun - 26 Jun 21	6	V	Trellis coded modulation, Introduction to Turbo coding, & Reed Solomon Codes: encoding & decoding, Low density parity check coding (LDPC)	DCOM_handwritten_notes_pdf_05		Tutorial	Digital Communication: J.S.Chitode				
12	28 Jun - 3 July 21	6	VI	Spread - Spectrum methods: - Study of PN sequences, direct sequence methods, Frequency hop methods, slow and fast frequency hop, performance analysis, synchronization methods for spread spectrum. Application of spread spectrum, CDMA, Introduction to OFDM	DCOM_handwritten_notes_pdf_06		Will show matlab simulink simulation of BPSK using Matlab	Digital communication: by Simon Haykin				
13	5 July - 9 July 21	6										
14	03 MAY - 07 MAY 21	Internal Practical & Final Submission										
15	12 July - 16 July 21	SESSIONAL - II										

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CCOEW/ ETC/ 20-21 Date: 01/02/2021

LESSON & TEACHING PLAN for Telecommunication Switching System ENGINEERING

Department of Electronics & Telecommunication Engineering

Faculty Name: Prof. Jaya Gadge | Sub: Telecommunication Swi | Year : 2020-21 | Sem:- VI | Subject Code: BEETE6021T

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition, No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's Sign
1	01 FEB - 06 FEB 21	6	1		ETC6TSSW01 D010221L01			Will show the open circuitary of telephone as well as will be use damage phone for breaking and showing students	Thiagrajan Vishwanathan (chapter1 &2: page no.1-59)		01/02/21	Ass1 01/2/21	
				Principles of manual switching system, electronic telephone, local and central battery system, trunk exchange, junction working Automatic telephony: strowger exchange, line switches and selectors, ringing and tone circuit.	ETC6TSSW01 D020221L02						02/02/21		
					ETC6TSSW01 D030221L03								
					ETC6TSSW01 D040221L04								
					ETC6TSSW01 D050221L05								
					ETC6TSSW01 D060221L06						06/02/21		
2	08 FEB - 12 FEB 21	5		subscriber uniselector circuit, trunking diagram, cross bar switching system.Message switching, Circuit switching, manual switching and Electronic Switching.	ETC6TSSW02 D080221L07				Thiagrajan Vishwanathan(chapter 3 :page no. 62-84)		08/02/21		
					ETC6TSSW02 D090221L08								
					ETC6TSSW02 D100221L09								
					ETC6TSSW02 D110221L10						11/02/21		

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					ETC6TSSW02 D120221L11							12/02/21		
3	15 FEB 20 FEB 21	6		Digital switching: Switching functions, space division switching, time division switching, two dimensional switching, digital cross connect systems, digital switching in an analog environment.	ETC6TSSW03 D150221L12 ETC6TSSW03 D650221L13 ETC6TSSW03 D170221L14 ETC6TSSW03 D180221L15 ETC6TSSW03 D190221L16 ETC6TSSW03 D200221L17			For digital switching use PC and its layer transmission	Thiagrajan Vishwanathan(chapter 5 & 6 : page no. 141 -226		15/02/21 20/02/21		
4	22 FEB 26 FEB 21	5	III	Single Stage Networks,Gradings: Principle, Design of progressive grading, other gradings, Traffic capacity of gradings, Applications of gradings.Link Systems: General, Two stage networks, three stage networks.	ETC6TSSW04 D220221L18 ETC6TSSW04 D230221L19 ETC6TSSW04 D240221L20 ETC6TSSW04 D250221L21			Will show the trunk plates	J.E.Flood (chapter 5 : page no. 117 to 137)		22/02/21 25/02/21		
					ETC6CSEW04 D260221L22						26/02/21		
5	01 MARCH - 06 MARCH 21	6	III	Grades of service of link systems: General, Two stage networks, three stage networks, Call packing, Rearrangeable networks, Strict sense non blocking networks, Sectionalized switching networks Control of Switching Systems	ETC6TSSW05 D010321L23 ETC6TSSW05 D020321L24 ETC6TSSW05 D030321L25 ETC6TSSW05 D040321L26 ETC6TSSW05 D050321L27 ETC6TSSW05 D060321L28				J.E.Flood (chapter 5 : page no. 117 to 137)		01/03/21 06/03/21		

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6	08 MARCH - 12 MARCH 21	5	III	Call processing Functions: Sequence of operations, Signal exchanges, State transition diagrams. Common Control, Reliability, Availability and Security.	ETC6TSSW06 D080321L29 ETC6TSSW06 D090321L30 ETC6TSSW06 D100321L31 ETC6TSSW06 D110321L32 ETC6TSSW06 D110321L33			Will use mobile phone and show all the operations	J.E.Flood (chapter 5 : page no. 138to 154)		08/3/21 11/3/21		
7	15 MARCH - 20 MARCH 21			SESSIONAL - I									
8	22 MARCH - 26 MARCH 21	5	V	Data Networks: Data Transmission in PSTN, Data Communication Architecture,Link to link layers, End to End layers, Satellite based Data networks, LANs, MANs, Fiber optic networks, Data network Standards, Protocol stacks, Interworking.	ETC6TSSW08 D220321L34 ETC6TSSW08 D230321L35 ETC6TSSW08 D240321L36 ETC6TSSW08 D250321L37 ETC6TSSW08 D260321L38				Thiagrajan Vishwanathan (chapter 10: page no.394 - 413)& (page no. 421 -482)		22/3/21 26/3/21		
9	29 MARCH - 03 APRIL 21	6	VI	Mobile telephone services, cellular telephone, Frequency reuse, Interference.Cellular System topology, Roaming and handoffs, Cellular telephone network components,Cellular telephone calls processing. Cellular Telephone systems: Digital cellular telephone	ETC6TSSW09 D290321L39 ETC6TSSW09 D300321L40 ETC6TSSW09 D310321L41 ETC6TSSW09 D010421L42 ETC6TSSW09 D020421L43 ETC6TSSW09 D030421L44				Wireless communication by T.S.Rappaport(chapter 3 :page no. 57 -97)		29/3/21 03/04/21		

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RETEST

10	APRIL 09 APRIL 21												
11	12 APRIL - 17 APRIL 21	6	II	Unit of Traffic, Traffic measurement, a mathematical model,Lost-call systems: Theory, traffic performance, loss systems in tandem.Queuing systems: Erlang Distribution, probability of delay, Finite queue capacity, systems with a single server, Queues in tandem, delay tables and application of Delay	ETC6TSSW11 D120421L45 ETC6TSSW11 D130421L46 ETC6TSSW11 D140421L47 ETC6TSSW11 D150421L48 ETC6TSSW11 D160421L49 ETC6TSSW11 D170421L50				J.E.Flood (chapter 4: page no. 87 - 113)		12/04/21		
12	19 APRIL - 23 APRIL 21	5		Analysis: Traffic Characteristics: Arrival Distributions, Holding time Distribution. Loss Systems: Lost calls cleared, lost calls returning, lost calls Held, lost calls cleared.	ETC6TSSW12 D190421L51 ETC6TSSW12 D200421L52 ETC6TSSW12 D210421L53 ETC6TSSW12 D220421L54 ETC6TSSW12 D230421L55						17/04/21 19/04/21		
13	26 APRIL - 01 MAY 21	6	IV	Timing: Timing Recovery, Clock Instability, Elastic Stores, Jitter measurements, systematic jitter.Timing Inaccuracy: Slips, Asynchronous Multiplexing, Waiting time jitter.Network Synchronization: Plesiochronous, pulse stuffing, mutual synchronization, Network master, Master – Slave synchronization, Hierarchical synchronization	ETC6TSSW12 D240421L56 ETC6TSSW12 D250421L57 ETC6TSSW12 D260421L58 ETC6TSSW12 D270421L59 ETC6TSSW12 D280421L60 ETC6TSSW12 D290421L58				**J.E.Flood (chapter 2: page no. 16 - 47)**		23/04/21 27/04/21 29/04/21		

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14	03 MAY - 07 MAY 21	Internal Practical & Final Submission
15	10 MAY - 15 MAY	SESSIONAL - II

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CCOEW/ ETC/ 20-21

Date: 01/02/ 2021

LESSON & TEACHING PLAN for Microwave & RADR Engineering

Department of Electronics & TelecommunicationEngineering

Faculty Name: Prof. Jaya Gadge	Sub: Microwave & RADR Enginee	Year : 2020-21	Sem:- VIII	Subject Code: BEETE801T	

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	01 FEB - 06 FEB 21	6		Introduction of Microwave signals ,range and Tubes,High frequency limitations of conventional tubes,Two Cavity and multi cavity Klystrons ,Structure and working with numericals	ETC8MREW01D 010221L01 ETC8MREW01D 020221L02 ETC8MREW01D 030221L03 ETC8MREW01D 040221L04 ETC8MREW01D 050221L05 ETC8MREW01D 060221L06			Shows the convention al tubes and microwave tubes	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India,Microwave and Radar Engg. By M.Kulkarni(Page no. 297 -		01/02/22 06/02/22	Assi10/2/22	
2	08 FEB - 12 FEB 21	5	I	Reflex Klystrons, slow-wave structure: TWT with Numericals and Derivation	ETC8MREW02D 080221L07 ETC8MREW02D 090221L08 ETC8MREW02D 100221L09 ETC8MREW02D 110221L10 ETC8MREW02D 120221L11						08/2 12/02		

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					ETC8MREW03D 150221L12				338)	15/2/22
3	15 FEB - 20 FEB 21	6		BWO(Backword wave oscillator),Magnetron oscillator and its types	ETC8MREW03D 650221L13 ETC8MREW03D 170221L14 ETC8MREW03D 180221L15 ETC8MREW03D 190221L16 ETC8MREW03D 200221L17		explain with existing klystron generator in lab			20/2/22
4	22 FEB - 26 FEB 21	5	II	Introduction of Microwave Components,Introduction to rectangular waveguide & waveguide excitation	ETC8MREW04D 220221L18 ETC8MREW04D 230221L19 ETC8MREW04D 240221L20 ETC8MREW04D 250221L21		Power measurement using Reflex Klystron with variation by practically			22/2/22
5	01 MARCH - 06 MARCH 21	6	II	Principles of S-parameters, Sparameters for multi-ports (2-port, 3-port, 4-port etc.),properties of S-matrix, Derivation ,waveguide Tees (E, H, E-H planes), Directional Couplers, matched terminations	ETC6CSEW04D 260221L22 ETC8MREW05D 010321L23 ETC8MREW05D 020321L24 ETC8MREW05D 030321L25 ETC8MREW05D 040321L26 ETC8MREW05D 050321L27 ETC8MREW05D 060321L28		Will show all the component of microwave	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 199-260)		27/2/22 06/03/22
	08 MARCH			Microwave	ETC8MREW06D 080321L29 ETC8MREW06D 090321L30		With the help of power measureme			08/3/22 09/3/22

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6	CH - 12 MAR CH 21	5	II	attenuators,Slotted line, Ferrite devices, Circulators, Isolators, gyrators.	ETC8MREW06D 100321L31 ETC8MREW06D 110321L32 ETC8MREW06D 110321L33			nt will show the concept of all the device			10/3/22 11/3/22		Rane
7	13 MAR CH			SESSIONAL - I									
8	22 MAR CH - 26 MAR CH 21	5	III	Solid State Microwave Devices,Parametric amplifiers, PIN diodes, Transferred Electron devices: Gunn diode,Avalanche diode, Transit Time devices like IMPATT, TRAPATT diodes.	ETC8MREW08D 220321L34 ETC8MREW08D 230321L35 ETC8MREW08D 240321L36 ETC8MREW08D 250321L37 ETC8MREW08D 260321L38		NPTEL Lectures	S.T. Liao, "Microwave Devices and Circuits", Prentice Hall India,Microwave and Radar Engg. By M.Kulkarni(Page no 369-436)		22/03/22 26/3		Rane
9	29 MAR CH - 03 APRIL 21	6	V	radar range equation, factors influencing maximum range,Numericals based on Radar range Equation ,effects of noise, Pulsed radar systems.	ETC8MREW09D 290321L39 ETC8MREW09D 300321L40 ETC8MREW09D 310321L41 ETC8MREW09D 010421L42 ETC8MREW09D 020421L43		Will show target detection using CW RADAR	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications and Microwave and Radar Engg. By M.Kulkarni(Pa		29/3/22 02/04/22		
10	05 APRIL - 09 APRIL 21			RETEST									
11	12 APRIL 17	6	VI	Antennas and scanning, display methods, moving target indication, radar beacons, CW Doppler	ETC8MREW11D 120421L45 ETC8MREW11D 130421L46 ETC8MREW11D 140421L47		will practically show the working of	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications		12/04/22 14/04/22		Rane

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	APRIL 21			radar,FM CW phased array radars, applications of radar	ETC8MREW11D 150421L48 ETC8MREW11D 160421L49 ETC8MREW11D 170421L50		antenna's with radiation pattern	and Microwave and Radar Engg. By M.Kulkarni(Page no. 545-570)	15/4/22 17/04/22
12	19 APRIL - 23 APRIL 21	5	IV	Microwave measurement: Introduction to microwave measurements, definition and measurement methods of frequency,power, attenuation VSWR, impedance, insertion loss, dielectric constant, Q of a cavity resonator, phase shift.	ETC8MREW12D 190421L51 ETC8MREW12D 200421L52 ETC8MREW12D 210421L53 ETC8MREW12D 220421L54 ETC8MREW12D 230421L55 ETC8MREW12D 240421L56 ETC8MREW12D 250421L57 ETC8MREW12D 260421L58 ETC8MREW12D 270421L59 ETC8MREW12D 280421L60 ETC8MREW12D 290421L58		Will practically perform all the measurement parameter	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 261-296)	19/4/22 22/04/22 24/4 29/4/22
13	26 APRIL - 01 MAY 21	6							
14	03 MAY - 07 MAY 21	Internal Practical & Final Submission							
15	10 MAY - 15 MAY 21	SESSIONAL - II							

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CCOEW/ETC / 20-21 Date: 29/ 1 / 2021

LESSON & TEACHING PLAN for Computer Communication Network

Department of Electronics and Telecommunication

Faculty Name: Mrs. Pallavi Ganorkar								Sub: Computer Communication Network		Sec:	Year : 2020-21		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	1 Feb-6 Feb	6	I	Uses of computer Network, Network Software-design Issues for layers, Service primitives and relationship of services to Protocols, Reference models-OSI	ETC8CCNW01D01 0221L01-06				Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education		4|2|21		
2	8 Feb-12 Feb	5		TCP/IP, network architectures introduction, Example of networks- X.25, Frame Relay & ATM, Protocols and Standards	ETC8CCNW02D08 0221L07-11						8|2|21	11|2|21	
3	15 Feb-20 Feb	5	II	Physical layer-Data rate limits, Transmission media-guided and Unguided, Switching systems-Circuit switching	ETC8CCNW03D15 0221L12-16				Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education		11|2|2		
4	22 Feb-26 Feb	5		Datagram Switching & Virtual circuit switching, Structure of circuit and packet switch, cable modem and DSL technologies	ETC8CCNW04D22 0221L17-21			Will show them in CC lab			16|2|21		
5	1 Mar-6 Mar	6	II,III	SONET basics, selection of IEEE std 802.11 ,a,b,c,g, Data link layer: Framing, Flow & Error control Protocols, HDLC, PPP	ETC8CCNW05D01 0321L22-27						23|2|21		

Faculty in Charge **HOD**

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
6	5 Mar-12 Mar	6	III	Multiple access techniques,random access, controlled access & Channelization, Ethernet types-bridged, Switched, Full duplex, Fast & gigabit Ethernet, Introduction to Data link layer in 802.11 LAN	ETC8CCNW06D05 0321L28-33								
7	15 Mar-20 Mar	Sessional I											
8	22 Mar-26 Mar	5	III	Connecting devices like passive hubs, repeaters, Active hubs, Bridges, Two-layer Switches, Routers, three layer switches, Gateway etc., Backbone networks, Virtual LANs, Simple Router architecture, Sliding window protocol	ETC8CCNW08D22 0321L34-38			Will show them in CC lab	Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education				
9	29 Mar-3 Apr	4	IV	IPv4 address, IPv6 address, Address mapping-ARP, RARP & DHCP, IPv4 datagram detail format, IPv6 datagram detail format,	ETC8CCNW09D29 0321L39-42			Demonstration on Desktop PC	Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education				
10	5 Apr-9 Apr	5		ICMP, IGMP, Network layer issues like Delivery, forwarding, intra-domain and Inter-domain routing, Routing algorithms like Shortest path routing, Flooding	ETC8CCNW10D05 0421L43-47			Simulation on NS2			7/4/21		
11	12 Apr-17 Apr	4		Distance Vector Routing, Link State Routing, Path vector routing etc., Addressing types-Physical, Logical & port address.Process to process delivery,	ETC8CCNW11D12 0421L48-51			Demonstration on Desktop PC					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
12	19 Apr-23 Apr	5		Connection oriented & Connectionless Transport, UDP,TCP, congestion control and Quality of Service	ETC8CCNW12D19 0421L52-56						15/5/21		
13	26 Apr-1 May	6	V	Application layer protocols and applications like Ping, FTP, telnet, http (www), SMTP, SNMP, Trace route, TFTP, BOOTP, DNS, NFS, RPC, X-server, E-mail, Introduction to streaming Audio/Video,P2P file sharing, Introduction to socket programming	ETC8CCNW13D26 0421L57-62			Demonstration on Desktop PC	Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education		29/5/21		
14	3 May-7 May	5	VI	Introduction to Cryptography, Secret key algorithm, public key algorithm, Hash Functions, basic ITU-T Recommendation - X.805 Security Architecture, Basics of Security Requirements/Services/Dimensions, Basics of Security attacks, Basics of Security mechanisms / solutions	ETC8CCNW14D03 0521L63-67			Demonstration on Desktop PC	William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson Education		4/6/21	6/6/21	
15	10 May-15 May	Sessional II											
16	17 May-21 May	5	VI	UTP Cabling for PC to PC communication, Network tester, network monitoring, Protocol Analyzer, Network Simulation, internet access through Dialup/DSL/Leased Line/Mobile handset	ETC8CCNW16D17 0521L68-69			Will show them in CC lab	William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson		5/6/21	17/6/21	

Faculty in Charge **Sub. Teacher** **HOD** Academic coordinator

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W/AS / 20-21

Date: 2/ 8 / 2020

LESSON & TEACHING PLAN for Applied Mathmatics-III

Department of Allied Science

y Name: Prof. Sneha Uttarwar								Sub: Applied Mathematics_	Branch: Mechanic	Year : 2020-21		Sem :- III

EK	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Link for Video	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	10 Aug - 14 Aug20	5	VI	MATRICES : Linear Transformations, Orthogonal Transformations,	BEETE301TW01 D100820L01					Engineering Mathematic: Chandrashekhr N. tembhekar, P. D. Shobhane 2.41 - 2.78		8/10/2020		
				Linear dependence of vectors,	BEETE301TW01 D110820L02	AM_LD_ ppt_01	AM_LD_ V_01AM _LD_V_	https://bit.ly/30rF63d /https://bit.ly/33psPOC				8/11/2020		
				Characteristics equation, Eigen values and Eigen vectors	BEETE301TW01 D120820L03							8/12/2020		
				Reduction to Diagonal form	BEETE301TW01 D130820L04	AM_EV_ ppt_02	AM_EV_ V_03 AM_EV	https://bit.ly/2DtaAwV/ https://bit.ly/30pW8Pa				8/13/2020		
				Cayley Hamilton Theorem [without proof]	BEETE301TW01 D140820L05							8/14/2020		
				Reduction of Quadratic form to Canonical form by Orthogonal transformation,	BEETE301TW02 D170820L06	AM_Caly _ppt_03	AM_Caly _V_05 AM_Caly _V_06	https://bit.ly/2PqCnRr / https://bit.ly/2XqgTbR				8/17/2020		

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			Sylvester's theorem [without proof],	BEETE301TW02 D180820L07					Higher Engineering Mathematics : Dr. B.S. Garewal		8/18/2020		
			Sylvester's theorem [without proof],	BEETE301TW02 D190820L08	AM_SY_ ppt_04	AM_Sy_ V_07 AM	https://bit.ly/39WQFTq /https://bit.ly/2C15oA4				8/19/2020		
17Aug-22 Aug20	6		Solution of Second Order Linear Differential Equation with Constant Coefficients by Matrix	BEETE301TW02 D200820L09							8/20/2020		
			Solution of Second Order Linear Differential Equation with Constant Coefficients by Matrix method	BEETE301TW02 D210820L10	AM_DE_ ppt_05	AM_DE_ V_09 AM_DE_ V_10	https://bit.ly/31nd73W				8/21/2020	Assi 21-08-20	
			Tutorial-1	BEETE301TW02 D220820L11							8/22/2020	Tutorial-I	
			PARTIAL DIFFERENTIAL EQUATIONS: First Order First Degree i.e. Lagrange's form	BEETE301TW03 D240820L12							8/24/2020		
			PARTIAL DIFFERENTIAL EQUATIONS:First Order First Degree i.e.	BEETE301TW03 D250820L13	AM_PD E_ppt_06	AM_PD E_V_11 AM_PD E_V_12					8/25/2020		
24 Aug-29 Aug20	6		Linear Homogeneous Equations of higher order with constant coefficients	BEETE301TW03 D260820L14							8/26/2020		
		V	Linear Homogeneous Equations of higher order with constant coefficients	BEETE301TW03 D270820L15					Engineering Math ematics : Chandrashekhr		8/27/2020		

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			Linear Homogeneous Equations of higher order with constant coefficients	BEETE301TW03 D280820L16	AM_PDE_ppt_07	AM_PDE_V_13 AM_PD			N. tembhekar, P. D. Shobhane 7.1 - 7.46		8/28/2020		
			Method of separations of variables,	BEETE301TW03 D290820L17							8/29/2020		
			Method of separations of variables,	BEETE301TW04 D310820L18	AM_PDE_ppt_08	AM_PDE_V_15					8/31/2020		
			Applications of Laplace Transform to solve Partial Differential Equations (One dimensional only)	BEETE301TW04 D010920L19							9/1/2020		
			.separations of variables,	BEETE301TW04 D020920L20	AM_PDE_ppt_09	AM_PDE_V_16					9/2/2020	Assi_02-09-20	
31 Aug-5 sep 20	6		Tutorial-2	BEETE301TW04 D030920L21							9/3/2020	Tutorial-2	
			FOURIER SERIES & FOURIER TRANSFORM: Periodic functions and their Fourier Expansions ,	BEETE301TW04 D040920L22							9/4/2020		
			FOURIER SERIES & FOURIER TRANSFORM: Periodic functions and their Fourier Expansions ,	BEETE301TW04 D050920L23	AM_FS_ppt_10	AM_FS_V_17 AM_FS_V_18					9/5/2020		
			Even and Odd functions, Change of interval	BEETE301TW05 D070920L24					Engineering Mat hematics : Chandrashekhr N. tembhekar, P. D. Shobhane 3.1- 3.25, 5.1 - 5.14		9/7/2020		
		II	Even and Odd functions, Change of interval	BEETE301TW05 D080920L25							9/8/2020		
			Half Range Expansions	BEETE301TW05 D090920L26							9/9/2020		
7Sep-12 Sept 20	6		Fourier Transform: Definition and Properties (excluding FFT)	BEETE301TW05 D100920L27	AM_FT_ppt_11	AM_FT_V_19 AM_FT_V_20					9/10/2020		

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				Fourier Integral Theorem	BEETE301TW05 D110920L28							9/11/2020		
				Fourier Integral Theorem	BEETE301TW05 D120920L29							9/12/2020		
				Tutorial-3	BEETE301TW06 D140920L30							9/14/2020	Tutorial-3	
1 5	14 Sep-19Sep20	4	IV	**FUNCTIONS OF COMPLEX VARIABLE** , Analytic functionCauchy-Riemann Conditions, Harmonic Functions (excluding orthogonal system),	BEETE301TW06 D170920L31					Engineering Math ematics : Chandrashekhr N. tembhekar, P. D. Shobhane 1.1 1.61		9/17/2020		
				Taylor's & Laurent's series (Statement only)	BEETE301TW06 D180920L32	AM_CI_ ppt_12	AM_CI_ V_21					9/18/2020		
				Taylor's & Laurent's series (Statement only)	BEETE301TW06 D190920L33							9/19/2020		
								SESSIONAL- I (21 Sep - 25 Sept)						
2 7	28 Sep - 3 Oct 20	5	IV	Zeros and Singularities of Analytic function,	BEETE301TW07 D280920L34					Engineering Math ematics : Chandrashekhr N. tembhekar, P. D. Shobhane 1.1 - 1.61		9/28/2020		
				(Evaluation of real definite integral around unit circle	BEETE301TW07 D290920L35							9/29/2020		
				Evaluation of real definite integral around semi-circle)	BEETE301TW07 D300920L36	AM_CI_ ppt_13	AM_CI_ V_23					9/30/2020		
				Residue Theorem (Statement only),	BEETE301TW07 D011020L37							10/1/2020	Assi_01_10_20	
				Tutorial-4	BEETE301TW07 D031020L38							10/3/2020	Tutorial-4	
10				**Laplace Transform:** Introduction , Defination, L-T of some elementary function	BEETE301TW08 D051020L39							10/5/2020		
	05 Oct			Change of scale property	BEETE301TW08 D061020L40							10/6/2020		

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Oct20	6		Change of scale property	BEETE301TW0 D071020L41	AM_LT_ ppt_14	AM_LT_ V_24				
			L-T, Shifting property,	BEETE301TW08 D081020L42					10/7/2020	
			L-T of derivative	BEETE301TW08 D091020L43					10/8/2020	
			L-T of integrals	BEETE301TW08 D101020L44					10/9/2020	
			Division by t	BEETE301TW09 D121020L45					10/10/2020	
12 Oct-17 Oct20	6	I	multiplication by t,	BEETE301TW09 D131020L46	AM_LT_ ppt_15	AM_LT_ V_26		Engineering Math ematics : Chandrashekhr N. tembhekar, P. D. Shobhane 4.1 - 4.61	10/12/2020	
			Inverse L-T, Method of partial fraction	BEETE301TW09 D141020L47					10/13/2020	
			Convolution theorem(Statement Only)	BEETE301TW09 D151020L48					10/14/2020	
			L.T.Inverse Using properties	BEETE301TW09 D161020L49					10/15/2020	
			L.T.Inverse Using properties and standard	BEETE301TW09 D171020L50					10/16/2020	
19 Oct-24 Oct20	6		Uit Step Function, L-T of Periodic Functions (statement only)	BEETE301TW10 D191020L51	AM_LT_ ppt_16	AM_LT_ V_28			10/17/2020	
			Application of L.T to solve differential equation	BEETE301TW10 D201020L52					10/19/2020	
			Simultaneous Differential EquationsIntegro-Differential Equations	BEETE301TW10 D211020L53					10/20/2020	
			Tutorial- 5	BEETE301TW10 D221020L54					10/21/2020	Assi_21_10_20
			CALCULUS OF VARIATIONS: Maxima and minima of functionals	BEETE301TW10 D231020L55					10/22/2020	Tutorial-5
			Euler's equation(statement only),	BEETE301TW10 D241020L56				Engineering	10/23/2020	
									10/24/2020	

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	26 Oct-31 Oct20	5	III	Isoperimetric Problems	BEETE301TW11 D261020L57	AM_CV_p	AM_CV_V_29			Math ematics : Chandrashekhr N. tembhekar, P. D. Shobhane 10.1 - 10.20		10/26/2020		
				Isoperimetric Problems	BEETE301TW11							10/27/2020		
				Tutorial -6	BEETE301TW11 D281020L59							10/28/2020		
				RIVISON	BEETE301TW11 D291020L60							10/29/2020		
				RIVISON	BEETE301TW11							10/30/2020		

Sessional II

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CCOEW/AS / 20-21

Date: 31/ 7 / 2020

LESSON & TEACHING PLAN for Network Analysis

Department of Electronics & Tele Communication Engineering

Faculty Name: Prof.S.Bhattacharya | Sub: Network Analysis | Year : 2020-21 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	10th Aug - 14th Aug	1	3	Idea of Resonance, Properties of Resonance	TE3NAW01D100 820L01						10/08		
		2		Idea of Q factor, Selectivity, Band Width,	TE3NAW01D110 820L02						11/08		
		3		Phasor diagram showing all the voltages & Currents	TE3NAW01D120 820L03						12/08		
		4		Properties of Resonance in RLC Parallel Circuit, Comparision of Series & Parallel Circuit	TE3NAW01D130 820L04						13/08		
		5		Numerical	TE3NAW01D140 820L05						14/08		
2	17th Aug - 21st Aug	6		Numerical	TE3NAW02D170 820L06						17/08		
		7		Numerical	TE3NAW02D180 820L07						18/08		
		8		Numerical	TE3NAW02D190 820L08						19/08		
		9		Numerical	TE3NAW02D200 820L09						21/08		
		10		Numerical	TE3NAW02D210 820L10						24/08		
		11	4	Basic idea of Filter, Types of Filter, Necessity of Filter, LPF,HPF,BPF,BSF,Cut of Frequency, Pass band, Stop Band	TE3NAW03D240 820L11						24/08		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
3	24th Aug-29th Aug	12		Constant K Filter, Constant K LPF, Constant K HPF,Constant K BPF, Constant K BSF	TE3NAW03D250 820L12						25/08		
		13		Numerical on LPF	TE3NAW03D260 820L13						27/08		
		14		Numerical on HPF	TE3NAW03D270 820L14						28/08		
		15		Numerical on BPF, Design Procedure of Constant K Low pass Filter	TE3NAW03D280 820L15						28/08		
		16		Design Procedure of Constant K High Pass Filter, Design Procedure of Constant K BPF in terms of Nominal Char imp & Cut off frequencies	TE3NAW03D290 820L16						29/08	Assign -1	
4	31st Aug-05th Sept	17		M derived Filters	TE3NAW04D310 820L17						31/08		
		18		Difference between m derived Filters & Prototype Filters, Composite Filters	TE3NAW04D010 920L18						31/08		
		19		Bascic Idea of Attenuator,	TE3NAW04D020 920L19						01/09		
		20		Types of Symmetrical Attenuators	TE3NAW04D030 920L20						02/09		
		21		Asymmetrical Attenuators, Types, Ladder type Attenuator, Lattice Attenuator	TE3NAW04D040 920L21						03/09		
		22		Numerical On Attenuator	TE3NAW04D050 920L22						04/09		
5	07th Sept-12th Sept	23		Numerical On Attenuator	TE3NAW05D070 920L23						05/09		
		24		Numerical On Attenuator	TE3NAW05D080 920L24						08/09		
		25		Numerical On Attenuator	TE3NAW05D090 920L25						11/09		
		26	2	Superposition Theorem, Numerical	TE3NAW05D100 920L26						12/09		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
		27		Numerical on SPT	TE3NAW05D110 920L27						16/09		
		28		Numerical on SPT	TE3NAW05D120 920L28						14/09		
6	14th Sept-19th Sept	29		Thevenins Theorem, Numerical	TE3NAW06D140 920L29						18/09		
		30		Numerical on Thevenins Theorem	TE3NAW06D150 920L30						18/09	Assgn-2	
		31		Nortons Theorem, Numerical	TE3NAW06D160 920L31						28/09		
		32		Numerical On Nortons Theorem	TE3NAW06D170 920L32						29/09		
		33		Numerical	TE3NAW06D180 920L33						29/09		
		34		Reciprocity Theorem, Numerical	TE3NAW06D190 920L34						30/09		
7	21st Sept-26th Sept	Sessional I Examination											
		35	1	Source Transformation, Numerical	TE3NAW08D280 920L35						01/10		
		36		Numerical on Source Transformation	TE3NAW08D290 920L36						03/10		
8	28th Sept-03rd Oct	37		Numerical on Source Transformation	TE3NAW08D300 920L37						05/10		
		38		Mesh Analysis	TE3NAW08D011 020L38						06/10		
		39		Numerical On Mesh Analysis	TE3NAW08D031 020L39						07/10		
		40		Numerical On Mesh Analysis	TE3NAW09D051 020L40						08/10		
		41		Numerical On Mesh Analysis	TE3NAW09D061 020L41						10/10		
9	05th Oct - 10th Oct	42		Numerical On Mesh Analysis	TE3NAW09D071 020L42						12/10		
		43		Numerical On Mesh Analysis	TE3NAW09D081 020L43						13/10		
		44		Numerical On Mesh Analysis	TE3NAW09D091 020L44						14/10		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activi Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
		45		Numerical On Mesh Analysis	TE3NAW09D101 020L45						15/10		
10	12th Oct-17th Oct	46		Nodal Analysis, Numical	TE3NAW10D121 020L46						16/10		
		47		Numerical On Nodal Analysis	TE3NAW10D131 020L47						17/10		
		48		Numerical On Nodal Analysis	TE3NAW10D141 020L48						19/10		
		49		Numerical On Nodal Analysis	TE3NAW10D151 020L49						20/10		
		50		Duality	TE3NAW10D161 020L50						26/10		
		51		Duality	TE3NAW10D171 020L51						31/10		
11	19th Oct-24th Oct	52	6	Idea of Two Port Network, Z,Y Network	TE3NAW11D191 020L52						02/11	Assign-3	
		53		ABCD, h Network	TE3NAW11D201 020L53						03/11		
		54		Reciprocity and Symmetry Condition	TE3NAW11D211 020L54						04/11		
		55		Reciprocity and Symmetry Condition	TE3NAW11D221 020L55						05/11		
		56		Pole Zero Network Function	TE3NAW11D231 020L56						05/01/11		
		57		Numerical	TE3NAW11D241 020L57						06/11		
12	26th Oct-31st Oct	58	5	Introduction to Laplace Transform, Basic Properties, Laplace Transform Techniques	TE3NAW12D261 020L58						06/11		
		59		Laplace Transform of R,L,C Components	TE3NAW12D271 020L59						07/11		
		60		Synthesis of Typical Waveform and their Laplace Transform	TE3NAW12D281 020L60						07/11		
		61		Transient response of Simple electrical Circuit such as Rc & RL	TE3NAW12D291 020L61						08/11		
		62		Numerical	TE3NAW12D301 020L62						10/11		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activities Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
	05 Nov - 10 Nov	Sessional II Examination											

S.Bhattacharya
(Faculty In Charge)

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Date: 1/ 8 / 2020

LESSON & TEACHING PLAN for Object Oriented Programming and Data Structure

Department of Electronics and Telecommunication

Faculty Name: Prof. Vidya Raut | Sub: Object Oriented Programming and Data Structure (BEETE304T) | Sec: A | Year : 2020-21 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Introduction to Object Oriented Programming : Benefits of OOPs, Application OOP Structure of C++ program, Basic Data type-Derived Data type-User defined data type-Operators in C++,	ETE3OOP&DSW02D120 820L01	OOP&DS_BOOP_ppt_01	OOP&DS_BOOP_V_01	http://vlabs.iitb.ac.in/vlabs-dev/labs/oops/labs/exp1/simulation.php http://cse02-iiith.vlabs.ac.in/exp2/index.html	E.Balagurusamy , "Object Oriented Programming with C++" , By Tata McGraw Hill Publications. Pg. No. 4-11, 32_38, 47_50, 60_65, 75_77,90-97, 115_118, 344_360	https://forms.gle/MGndV7g3E3LAVZAp9	10 Aug 11 Aug 12 Aug 13 Aug 14 Aug		
				Class Members, Access Control, Class Scope, Control Statements	ETE3OOP&DSW02D140 820L05	OOP&DS_CM_ppt_02			https://forms.gle/3ZUCAT3XkFWgVc5q7	14 Aug		
2	17Aug-21 Aug20	5		Parameter passing method, Constructor and Destructor, friend function,inline function,static class members, this pointer,	ETE3OOP&DSW03D190 820L08	OOP&DS_CD_ppt_03		http://vlabs.iitb.ac.in/vlabs-dev/labs/oops/labs/exp2/simulation.php		https://forms.gle/oF6JXay4yB4mLkGBA	17 Aug 18 Aug 19 Aug	Assig 2 20/8/20	
				Dynamic memory allocation and de allocation (new and delete),exception handling,	ETE3OOP&DSW03D210 820L10	OOP&DS_DM_ppt_04				https://forms.gle/2GiFt2tcg8a21Aet5	20 Aug		
3	24 Aug-29 Aug20	5	II	Features of Object Oriented Programming : Function Overloading,	ETE3OOP&DSW04D250 820L13	OOP&DS_POLY_ppt_05		http://vlabs.iitb.ac.in/vlabs-dev/labs/oops/labs/exp3/simulation.php	E.Balagurusamy , "Object Oriented Programming with C++" , By Tata McGraw Hill Publications. Pg. No 82-83,323-332,155-170		24 Aug 25 Aug 26 Aug 29 Aug		
				Generic Programming: Function and class templates	ETE3OOP&DSW04D260 820L14								
				Defining operator overloading overloading unary operator	ETE3OOP&DSW04D290 820L16								
4	1Sep-5Sep20	4		Overloading binary operator rules for operator overloading. Tutorial	ETE3OOP&DSW01D050 920L20			http://vlabs.iitb.ac.in/vlabs-dev/labs/oops/labs/exp4/simulation.php			1 Sep 2 Sep 4 Sep 5 Sep		
5	7Sep-11 Sept 20	5	III	Inheritance :Inheritance basics base and derived classes	ETE3OOP&DSW02D080 920L22	OOP&DS_INHERI_ppt_06		http://vlabs.iitb.ac.in/vlabs-dev/labs/oops/labs/exp6/simulation.php	Object -Oriented Programming with C++ By Rohit Khurana Pg. No 182,192-195,184-193,197-203.205.246.251.2		7 Sep 8 Sep 9 Sep 10 Sep 11 Sep	Assig 2 29/9/20.	
				Inheritance types:-single inheritance, multilevel inheritance,	ETE3OOP&DSW02D090 920L23								
				Mmultiple inheritance, hierarchal inheritance hybrid inheritance,virtual base class	ETE3OOP&DSW02D110 920L25								
				Run time polymorphism using									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition, No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	14Sep-19Sep20	5		virtual function pure virtual function, Tutorial	ETE3OOP&DSW03D180920L30			/AdilAslam4/inheritance-in-c-69290880	09	14 Sep			
				Sessional I practice						19 Sep			
7	21 Sep-25 Sep			Sessional I									
8	28 Sep-3 Oct 20	5	IV	Introduction to Data structure Arrays- Introduction-Linear arrays Representation of linear arrays in memory Tutorial	ETE3OOP&DSW04D300920L34	OOP&DS_DS_ppt_13			Fundamental of Data Structure in C++ by Horowitz,Sahani, GALGOTIA Pg. No 24-31,329,352,365,339-394	28 Sep			
				Sorting : Selection sort Insertion Sort, Bubble Sort	ETE3OOP&DSW04D031020L36	OOP&DS_SBS_ppt_14				29 Sep			
9	5 Oct -9 Oct 20	5		Quick Sort, Merge Sort, radix sort, linear Search, Binary Search, Tutorial	ETE3OOP&DSW02D071020L39	OOP&DS_QMRS_ppt_15				30 Sep			
			V	Introduction of Stack and Queue Dynamic memory allocation	ETE3OOP&DSW02D091020L41	OOP&DS_SQ_ppt_16				2 Sep			
10	12 Oct -16 Oct 20	3		"Linked list: Introduction- Representation of singly Linked List in memory" Traversing a linked list Searching a linked list	ETE3OOP&DSW03D141020L44	OOP&DS_LL_ppt_17			Data Structure using c & C++ by Langsam,Tenenbaum, PHI Pg. No 77-83 174-181,internate & notes,187,220 from kamthane,220,187-191,191-197	30 Oct			
				Insertion and deletion in linked list Implementation of stack and queue using linked representation	ETE3OOP&DSW03D161020L46	OOP&DS_IDL_ppt_18				5 Oct			
11	19 Oct -23 Oct 20	5	VI	Trees: Basic terminology Binary Binary tree representation,algebraic Expressions,Complete Binary Tree	ETE3OOP&DSW041D211020L49	OOP&DS_BT_ppt_19			An Introduction to Data Structure with application by Tremblay Sorenson,mming with C++" , Tata McGraw Hill Publications. Pg. No 249-260,401-405	7/10/20			
				Array and Linked Representation of Binary trees Traversing Binary trees	ETE3OOP&DSW04D231020L51	OOP&DS_ALT_ppt_20				8/10/20			
12	26 Oct-31 Oct 20	4		Binary search Tree Implementation Operations: Searching,Insertion and deletion in binary search trees	ETE3OOP&DSW05D281020L53	OOP&DS_BST_ppt_21				9/10/20			
				Treaded Binary trees,Traversing Threaded Binary trees.	ETE3OOP&DSW05D311020L55	OOP&DS_TBT_ppt_22				12/10/20			
										13/10/20			
										14/10/20			
										15/10/20			
										16/10/20			
										19/10/20			
										20/10/20			
										21/10/20			
										22/10/20			
										23/10/20			
										26/10/20		Assig 3	
										27/10/20		27/10/20	
										28/10/20			
										31/10/20			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
13	2 Nov - 4 Nov20	3		Revision						2/11/20 3/11/20 4/11/20			
14	5 Nov - 10 Nov20	Sessional II											

Sub. Teacher
Prof. Vidya Raut

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CCOEW/ETC / 20-21

Date: 4/ 8 / 2020

LESSON & TEACHING PLAN for Communication Electronics

Department of ETC

Faculty Name: Prof. Pallavi Ganorkar								Sub: Communication Electronics		Year : 2020-21		Sem:- V
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Base band & Carrier communication,	ETC5CEW01D100 820L01				Kennedy & Devis : Electronic Communication Systems , Tata McGraw Hills Publication(Fourth Edition)				
				Introduction of amplitude modulation, Equation of AM, Generation of AM (DSBFC) and its spectrum,	ETC5CEW01D110 820L02								
				Modulation Index , Power relations applied to sinusoidal signals,	ETC5CEW01D120 820L03								
				DSBSC – multiplier modulator, Non linear generation,	ETC5CEW01D130 820L04								
				switching modulator, Ring modulator & its spectrum,	ETC5CEW01D140 820L05								
2	17Aug-21	5	I	SSBSC, ISB & VSB,	ETC5CEW02D170 820L06				Kennedy & Devis : Electronic Communication Systems , Tata				
				SSBSC, ISB & VSB, their generation methods & Comparison,	ETC5CEW02D180 820L07								
				AM Broadcast technical standards.	ETC5CEW02D190 820L08							19-08-2020	

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	Aug20		II	Concept of Angle modulation, Types of Angle Modulation,	ETC5CEW02D200 820L09				McGraw Hills Publication(Fourth Edition)						
				frequency spectrum, Narrow band & wide band FM,	ETC5CEW02D210 820L10										
3	24 Aug-29Aug20	6	II	Modulation index, Bandwidth,	ETC5CEW03D240 820L11				Kennedy & Devis : Electronic Communication Systems , Tata McGraw Hills Publication(Fourth Edition)						
				Phase Modulation,	ETC5CEW03D250 820L12										
				Bessel's Function and its mathematical analysis,	ETC5CEW03D260 820L13										
				Generation of FM (Direct & Indirect Method),	ETC5CEW03D270 820L14										
				Generation of FM (Direct & Indirect Method), Comparison of FM and PM.	ETC5CEW03D280 820L15										
				Tutorial	ETC5CEW03D290 820L16								29-08-2020		
4	31 Aug-5 Sep20	5	III	Band limited & time limited signals,	ETC5CEW04D310 820L17				Kennedy & Devis : Electronic Communication Systems , Tata McGraw Hills Publication(Fourth Edition)						
				Narrowband signals and systems,	ETC5CEW04D020 920L18										
				Sampling theorem in time domain, Nyquist criteria,	ETC5CEW04D030 920L19										
				Types of sampling- ideal, natural, flat top, Aliasing & Aperture effect. .	ETC5CEW04D040 920L20										
				Pulse Analog modulation: PAM PWM	ETC5CEW04D050 920L21										
5	7 Sep-12 Sep20	6	III	PPM. PCM – Generation & reconstruction, Bandwidth requirement of PCM	ETC5CEW05D070 920L22				Kennedy & Devis : Electronic Communication Systems , Tata McGraw Hills Publication(Fourth Edition)						
				PCM – Generation & reconstruction, Bandwidth requirement of PCM.Differential PCM,	ETC5CEW05D080 920L23										
				Delta Modulation & Adaptive DM. (Only Block diagram treatment)	ETC5CEW05D090 920L24								09-09-2020		

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			IV	Sources of Noise,	ETC5CEW05D100 920L25				Kennedy & Devis : Electronic Communication Systems , Tata McGraw Hills Publication(Fourth Edition)					
				Types of Noise, White Noise, Thermal noise, shot noise, partition noise,	ETC5CEW05D110 920L26									
				Low frequency or flicker noise, burst noise, avalanche noise, Signal to Noise	ETC5CEW05D120 920L27									
6	14Sept-19Sept 20	4	IV	SNR of tandem Connection, Noise Figure,	ETC5CEW06D140 920L28				Kennedy & Devis : Electronic Communication Systems , Tata McGraw Hills Publication(Fourth Edition)					
				Noise Temperature, Friss formula for Noise Figure,	ETC5CEW06D170 920L29									
				Noise Bandwidth.	ETC5CEW06D180 920L30									
				Tutorial	ETC5CEW06D190 920L31								19-09-2020	
7	21-25 Sept 20	Sessional I												
8	28 Sep-3 Oct20	5	V	Communication Receiver, Block Diagram & special Features	ETC5CEW08D280 920L32				B. P. Lathi: Modern Digital and Analog. Communication Systems: Oxford Press Publication (Third Edition)					
				Block diagram of AM and FM Receivers,	ETC5CEW08D290 920L33									
				Block diagram of AM and FM Receivers,	ETC5CEW08D300 920L34									
				Super heterodyne Receiver,	ETC5CEW08D011 020L35									
				Performance characteristics: Sensitivity, Selectivity, Fidelity, Image Frequency Rejection,	ETC5CEW08D031 020L36									
9	5 Oct-10 Oct20	6	V	Pre-emphasis,	ETC5CEW09D050 920L37				B. P. Lathi: Modern Digital and Analog. Communication Systems: Oxford Press Publication					
				De-emphasis	ETC5CEW09D060 920L38									
				AM Detection: Rectifier detection,	ETC5CEW09D070 920L39									
				Envelope detection,	ETC5CEW09D080 920L40									

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				Demodulation of DSBSC: Synchronous detection,	ETC5CEW09D090 920L41				(Third Edition)						
				Demodulation of SSBSC.	ETC5CEW09D100 920L42										
10	12-17 Oct20	5	V	FM Detection: Foster Seelay FM Detector	ETC5CEW10D121 020L43				B. P. Lathi: Modern Digital and Analog. Communication Systems: Oxford Press Publication (Third Edition)						
				FM detection using PLL	ETC5CEW10D131 020L44										
				Tutorial	ETC5CEW10D141 020L45								14-10-2020		
			VI	Multiplexing: Frequency Division Multiplexing,	ETC5CEW10D151 020L46										
				Time Division Multiplexing,	ETC5CEW10D161 020L47										
11	19-24 Oct20	6	VI	Code Division Multiplexing.	ETC5CEW11D191 020L48				Kennedy & Devis : Electronic Communication Systems , Tata McGraw Hills Publication(Fourth Edition)						
				Short and Medium Haul Systems: Coaxial Cables, Fiber optic links,	ETC5CEW11D201 020L49										
				Microwave Links,	ETC5CEW11D211 020L50										
				Tropospheric scatter Links.	ETC5CEW11D221 020L51										
				Long Haul Systems: Submarine cables.	ETC5CEW11D231 020L52										
				Revision	ETC5CEW11D241 020L53										
12	26-31 Oct20	6		Revision									24-10-2020		
16		Sessional II													

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CCOEW/AS / 20-21

Date: 3/ 8 / 2020

LESSON & TEACHING PLAN for Engineering Physics

Department of Electronics and Telecommunication

Faculty Name: Prof. Jaya Gadge | Sub: Analog Circuit Design | Year : 2020-21 | Sem:-V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition.	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Introduction , Block diagram of opamp	ETC5ACDW01 D100820L01	FM_CS_ ppt_01	EP_CS_V_ 01		Operational Amplifier and Applications: R. Gayakwad Page No 1-61		10/8/2020		
				Basic differential amplifier using transistor DIBODA	ETC5ACDW01 D110820L02	FM_CS_ ppt_01					11/8/2020		
					ETC5ACDW01 D120820L03						12/8/2020		
				Basic differential amplifier using transistor DIUBODA	ETC5ACDW01 D130820L04						13/8/2020		
					ETC5ACDW01 D140820L05	FM_CS_p pt_02					14/8/2020		
2	17Aug-21 Aug20	5	I	Basic differential amplifier using transistor SIBODA	ETC5ACDW02 D170820L06	FM_MI_ ppt_02	EP_MI_V_0 2				17/8/2020		
					ETC5ACDW02 D180820L07						18/8/20		
				Basic differential amplifier using transistor SIUBODA	ETC5ACDW02 D190820L08						19/8/20		
					ETC5ACDW02 D200820L09	FM_hkl_ pptO3	EP_hkl_V_ 02				20/8/20		
				Tutorial s	ETC5ACDW02 D210820L10	FM_hkl_ pptO4	EP_hkl_V_ 03				21/8/20	Tutorial	
				Constant current bias	ETC5ACDW03 D240820L11						24/8/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	rence Book - Chapter no. Page no,edition.	link for quiz or poll	Completion Date	Assignmen t/Tutorial Date	AC's sign
3	24 Aug-29Aug20	6	I	Cascading Amplifier	ETC5ACDW03 D250820L12				Operational Amplifier and Applications: R. Gayakwad Page No 62-89		25/8/20		
				Level Translator	ETC5ACDW03 D260820L13						26/8/20		
				Opamp and its symbol equivalent circuit, ideal transfer curve	ETC5ACDW03 D270820L14						27/8/20		
				Opamp Parameters	ETC5ACDW03 D280820L15				Operational Amplifier and Applications: R. Gayakwad Page No 90-122		28/8/20		
				Open loop Configration of opamp	ETC5ACDW03 D290820L16						29/8/20		
4	31 Aug-5 Sep20	5	I	Closed loop and feedback amplifier	ETC5ACDW04 D310820L17						31/8/20		
				NINV Amplifier and Volt follower	ETC5ACDW04 D020920L18						2/9/2020		
				INV Amplifier Virtual ground concept	ETC5ACDW04 D030920L19						3/9/2020		
			II	Voltage follower	ETC5ACDW04 D040920L20				Operational Amplifier and Applications: R. Gayakwad Page No 90-122		4/9/2020		
				Summing amplifier, scaling and averaging amplifier	ETC5ACDW04 D050920L21						5/9/2020		
5	7 Sep-12Sep20	6	II&III	Integrator and differentiators (Practical considerations and design)	ETC5ACDW05 D070920L22						7/9/2020		
				Instrumentation amplifier	ETC5ACDW05 D080920L23						8/9/2020		
				Peak detector	ETC5ACDW05 D090920L24						9/9/2020		
				Log and antilog amplifiers using OP-Amp	ETC5ACDW05 D100920L25				Operational Amplifier		10/9/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition.	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Transistor and analog multipliers	ETC5ACDW05 D110920L26				and Applications: R. Gayakwad		11/9/2020		
				Comparators, Schmitt trigger	ETC5ACDW05 D120920L27						12/9/2020		
6	14Sept-19Sept 20	4	III	Clipper and Clamper	ETC5ACDW06 D140920L28				Operational Amplifier and Applications: R. Gayakwad Page No236-286		14/9/2020		
				Precision Rectifier	ETC5ACDW06 D170920L29						17/9/2020		
				PLL	ETC5ACDW06 D180920L30						18/9/2020		
				Bistable, Monostable, Astable multivibrator using 555	ETC5ACDW06 D190920L31						19/9/2020		
7	21-25 Sept 20	Sessional-I											
8	28 Sept-03 Oct20	5	III	Sample/Hold circuits, D/A (R/R)	ETC5ACDW08 D280920L32				Operational Amplifier and Applications: R. Gayakwad Page No 1-207		28/9/2020		
				A/D conversion circuits	ETC5ACDW08 D290920L33						29/9/2020		
				design of ADC using 0804 ICs.	ETC5ACDW08 D300920L34						30/9/2020		
				Unregulated D.C. power supply rectifiers	ETC5ACDW08 D011020L35						1/10/2020		
				Unregulated D.C. power supply filters	ETC5ACDW08 D031020L36						3/10/2020		
9	05-10Oct 20	6	IV	Design of series voltage regulators	ETC5ACDW09 D050920L37		12/10/2020		Monograph on Electronic circuit Design: Goyal & Khetan.		5/10/2020		
				Design of regulators using IC 78×× and 79××	ETC5ACDW09 D060920L38		13/10				6/10/2020		
				protection circuits for regulators,	ETC5ACDW09 D070920L39		14/10				7/10/2020		
				Design of SMPS (Buck & Boost)	ETC5ACDW09 D080920L40		15/10,16/10				8/10/2020		
				Tutorial Tutorial on above topics	ETC5ACDW09 D090920L41		17,19/10				9/10/2020	Tutorial	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition.	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				OPAMP based Wein Bridge osc	ETC5ACDW09 D100920L42		21/10,22/10		Operational Amplifier and Applications: R. Gayakwad page No 289-340		10/10/2020		
10	12-17Oct 20	5	V	Phase Shift oscillators	ETC5ACDW10 D121020L43		23/10				12/10/2020		
				Transistorized Hartley	ETC5ACDW10 D131020L44		23/10				13/10/2020		
				Colpitts oscillator	ETC5ACDW10 D141020L45		26/10				14/10/2020		
				Tutorial Tutorial on above topics	ETC5ACDW10 D151020L46		29/10				15/10/2020	Tutorial	
				Crystal oscillators,	ETC5ACDW10 D161020L47		29/10		Monograph on Electronic circuit Design: Goyal & Khetan.		16/10/2020		
11	19-24Oct 20	6	V &VI	Types of oscillator based on signal generator	ETC5ACDW11 D191020L48		24/10				19/10/2020		
				Evaluation of figure of merit oscillators circuits.	ETC5ACDW11 D201020L49		24/10				20/10/2020		
				Design of function generator	ETC5ACDW11 D211020L50		26/10				21/10/2020		
				Advantages of active filters,Design of Butterworth Active Filter	ETC5ACDW11 D221020L51		27/10				22/10/2020		
				sign of Active filter of LPF,H	ETC5ACDW11 D231020L52		28/10		Operational Amplifier and Applications: R. Gayakwad page No 289-340		23/10/2020		
				Design of Active filter of BPF	ETC5ACDW11 D241020L53		29/10				24/10/2020		
12	26-31Oct 20	6	VI	Design of 2 and upto 6 th order filter	ETC5ACDW12 D261020L54		31/10				26/10/2020		
					ETC5ACDW12 D271020L55		2/11/2020				27/10/2020		
				Design of Relay driver circuit,	ETC5ACDW12 D281020L56		3/11/2020		Notes		28/10/2020		
				Design of stepper motor control circuit	ETC5ACDW12 D291020L57		4/11/2020				29/10/2020		
				Design of Dc servo motor control circuit	ETC5ACDW12 D301020L58		5/11/2020				30/10/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition.	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Tutorial Tutorial on above topics	ETC5ACDW12 D311020L59		5/11/2020				31/10/2020		

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CCOEW/ETC 20-21

Date: 30/07/2020

LESSON & TEACHING PLAN for Industrial Economics and Entrepreneurship Development

Department of Electronics & Telecommunication Engineering

Faculty Name: Prof. Priyadarshini Ramteke				Sub:Industrial Economics and Entrepreneurship			Sec:	Year : 2020-21		Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1Aug - 7Aug	0		Skill Development									
2	10 Aug-15 Aug20	5	I	Industrial Economics: Introduction	ETC5IEEDW02 D100820L01						12/8/2020		
				Types of Business structures: Sole Proprietorship	ETC5IEEDW02 D110820L02						13/08/2020		
				Partnership	ETC5IEEDW02 D120820L03						14/08/2020		
				Corporation	ETC5IEEDW02 D130820L04						17/08/2020		
				Company	ETC5IEEDW02 D140820L05						18/08/2020		
3	17Aug-22Aug20	5		Difference between Public and Private Company	ETC5IEEDW03 D170820L06						19/08/2020		
				Top and Bottom Line of the organization	ETC5IEEDW03 D180820L07						20/08/2020		
				Economic Analysis	ETC5IEEDW03 D190820L08						21/08/2020		
				Economic Prudence & Economies of Operation	ETC5IEEDW03 D200820L09						25/08/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity// Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Revision and university questions	ETC5IEEDW03 D210820L10						25/08/2020		
4	24Aug-29 Aug 20	5	II	Costing	ETC5IEEDW04 D240820L11						24/08/2020		
				Market Structures	ETC5IEEDW04 D250820L12						27/08/2020		
				Perfect Competition	ETC5IEEDW04 D260820L13						28/08/2020		
				Monopolistic Competition & Monopoly	ETC5IEEDW04 D270820L14						29/08/2020		
				Oligopoly	ETC5IEEDW04 D280820L15						31/08/2020		
5	31 Aug-5 Sept 20	5		Pricing Strategies	ETC5IEEDW05 D310820L16						2/9/2020		
				Business integration	ETC5IEEDW05 D010920L17						3/9/2020		
				Economies and Diseconomies of Scale &	ETC5IEEDW05 D020920L18						4/9/2020		
				LPG Policy	ETC5IEEDW05 D030920L19						5/9/2020		
				Business Cycles	ETC5IEEDW05 D040920L20						7/9/2020		
6	7 Sept-12Sept 20	5	III	Functions of Central Bank	ETC5IEEDW06 D070920L21						8/9/2020		
				Functions of Commercial Banks	ETC5IEEDW06 D080920L22						9/9/2020		
				Foreign Direct Investment	ETC5IEEDW06 D090920L23						12/9/2020		
				Free Trade Vs. Protection	ETC5IEEDW06 D100920L24						11/9/2020		
				Capital Formation	ETC5IEEDW06 D110920L25						10/9/2020		
				Inflation: Types and Causes	ETC5IEEDW07 D140920L26						14/9/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	14 Sept - 19 Sept 20	5		Inflation: Control and Effects	ETC5IEEDW07 D150920L27						18/9/2020		
				Deflation and Stagnation	ETC5IEEDW07 D160920L28						18/9/2020		
				Public Private Partnership	ETC5IEEDW07 D170920L29						19/9/2020		
				Inclusive Growth	ETC5IEEDW07 D180920L30						19/9/2020		
8	21 Sept - 25 Sept	Sessional I											
9	28 Sept - 3 Oct 20	5	V	Sources of finance	ETC5IEEDW09 D280920L31						28-30/9/2020		
				Venture Capital and Angel Funding	ETC5IEEDW09 D290920L32						1/10/2020		
				Capital Structure	ETC5IEEDW09 D300920L33						16/10/2020		
				Working Capital	ETC5IEEDW09 D011020L34						9/10/2020		
				Break Even Analysis	ETC5IEEDW09 D021020L35						1/9/2020		
10	5 Oct - 10 Oct	5		Network Analysis Techniques: PERT/CPM	ETC5IEEDW10 D051020L36						10/10/2020		
				Taxation	ETC5IEEDW10 D061020L37						3,6/10/2020		
			VI	Small Scale Industries: Features and Problems	ETC5IEEDW10 D071020L38						7/10/2020		
				Sickness in SSIs	ETC5IEEDW10 D081020L39						8/10/2020		
				Technical Consultancy Organizations	ETC5IEEDW10 D091020L40						12/10/2020		
				Government Policies to SSIs	ETC5IEEDW11 D121020L41						13/10/2020		
				Tax Benefits and other Incentives to SSIs	ETC5IEEDW11 D131020L42						15/10/2020		

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CCOEW/AS / 20-21

Date: 31/ 7 / 2020

LESSON & TEACHING PLAN for Electronics Devices & Circuits

Department of Electronics & Tele Communication Engineering

Faculty Name: Prof.S.Bhattacharya | Sub: Electronics Devices & Circuits | Year : 2020-21 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	10th Aug - 14th Aug	1	1	Introduction to PN Junction Diode	ET3EDCW01D100820L01						10/08		
		2		VA Characteristics	ET3EDCW01D100820L02						11/08		
		3		Temperature Dependence of PN Junction Diode	ET3EDCW01D100820L03						12/08		
		4		Transition and Diffusion capacitance of PN junction	ET3EDCW01D100820L04						13/08		
		5		Zener and Avalanche Breakdown	ET3EDCW01D100820L05						17/08		
2	17th Aug - 21st Aug	6		Half wave diode rectifier	ET3EDCW02D100820L06						18/08	Assign-1	
		7		Full wave diode Rectifier	ET3EDCW02D100820L07						19/08		
		8		Bridge Rectifier	ET3EDCW02D100820L08						24/08		
		9		Numerical	ET3EDCW02D100820L09						25/08		
		10		Numerical	ET3EDCW02D100820L10						27/08		
		11		Numerical	ET3EDCW03D100820L11						28/08		
		12		Numerical	ET3EDCW03D100820L12						29/08		
	24th Aug -	13		Introduction to Transistor, Construction	ET3EDCW03D100820L13						31/08		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	29th Aug	14		Transistor Operations	ET3EDCW03D100 820L14						01/09		
		15		BJT Characteristics	ET3EDCW03D100 820L15						02/09		
		16		Necessity of BJT Biasing	ET3EDCW03D100 820L16						03/09		
4	31st Aug-05th Sept	17	2	Transistor biasing methods, Thermal Stabilization	ET3EDCW04D100 820L17						04/09		
		18		Thermal runaway, Compensation Circuits	ET3EDCW04D100 820L18						05/09		
		19		Transistor as an amplifier	ET3EDCW04D100 820L19						07/09		
		20		Numerical	ET3EDCW04D100 820L20						08/09		
		21		Numerical	ET3EDCW04D100 820L21						11/09		
		22		Numerical	ET3EDCW04D100 820L22						12/09		
5	07th Sept-12th Sept	23	3	H Parameter Model	ET3EDCW05D100 820L23						14/09	Assign-2	
		24		CB,CE Amplifier Configuration	ET3EDCW05D100 820L24						18/09		
		25		CC Amplifier Configuration	ET3EDCW05D100 820L25						19/09		
		26		Principle of Negetive Feedback in Electronics Circuits	ET3EDCW05D100 820L26						21/09		
		27		Voltage Series, Voltage Shunt Type Negetive Feedback	ET3EDCW05D100 820L27						22/09		
		28		Current Series, Current Shunt type Negetive Feedback	ET3EDCW05D100 820L28						28/09		
6	14th Sept-19th Sept	29		Voltage and Current Gain, Bandwidth, Noise and Distortion	ET3EDCW06D100 820L29						28/09		
		30		Numerical	ET3EDCW06D100 820L30						01/10		
		31		Numerical	ET3EDCW06D100 820L31						01/10		
				Numerical	ET3EDCW06D100 820L32						05/10		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
		33		Numerical	ET3EDCW06D100820L33						07/10		
		34		Numerical	ET3EDCW06D100820L34						07/10		
7	21st Sept-26th Sept	Sessional I Examination											

S.Bhattacharya
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CCOEW/AS / 20-21

Date: 31/ 7 / 2020

LESSON & TEACHING PLAN for Television & Video Engineering

Department of Electronics & Tele Communication Engineering

Faculty Name: Prof.S.Bhattacharya | Sub: Television & Video Engineering | Year : 2020-21 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10th Aug - 14th Aug	1	1	Television Basics	ET7TVW01D100 820L01						10/08		
		2		Elements of TV system, Low level TV Transmission	ET7TVW01D100 820L02						11/08		
		3		TV Receiver Block Diagram	ET7TVW01D100 820L03						12/08		
		4		Colour Difference Signal	ET7TVW01D100 820L04						13/08		
		5		Composite Video Signal	ET7TVW01D100 820L05						17/08		
2	17th Aug - 21st Aug	6		Colour TV System	ET7TVW02D100 820L06						18/08		
		7		Colour Fundamentals	ET7TVW02D100 820L07						19/08		
		8		Mixing of Colours	ET7TVW02D100 820L08						20/08		
		9		Colour Perception	ET7TVW02D100 820L09						21/08		
		10		Chromatocity Diagram	ET7TVW02D100 820L10						24/08		
3	24th Aug-	11		NTSC System	ET7TVW03D100 820L11						25/08		
		12		NTSC System	ET7TVW03D100 820L12						26/08		
		13		PAL System	ET7TVW03D100 820L13						28/08		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity / Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	29th Aug	14	2	PAL System	ET7TVW03D100 820L14						29/08		
		15		SECAM System	ET7TVW03D100 820L15						31/08		
		16		SECAM System	ET7TVW03D100 820L16						01/09	Assgn-1	
4	31st Aug-05th Sept	17		Colour TV Transmitter	ET7TVW04D100 820L17						02/09		
		18		Colour TV Receiver	ET7TVW04D100 820L18						03/09		
		19		Remote Control	ET7TVW04D100 820L19						04/09		
		20		Antenna	ET7TVW04D100 820L20						07/09		
		21		TV Pattern Generation	ET7TVW04D100 820L21						08/09		
		22		Review	ET7TVW04D100 820L22						11/09		
5	07th Sept-12th Sept	23	3	Introduction to Digital TV, Principle	ET7TVW05D100 820L23						12/09		
		24		Digital TV Signals and Parameters	ET7TVW05D100 820L24						14/09		
		25		Digital TV Transmitter	ET7TVW05D100 820L25						18/09		
		26		MAC Signal	ET7TVW05D100 820L26						19/09		
		27		Advanced MAC Signal	ET7TVW05D100 820L27						28/09		
		28		Digital TV Receivers	ET7TVW05D100 820L28						29/09		
6	14th Sept-19th Sept	29		Digital video compression technique	ET7TVW06D100 820L29						30/09		
		30		Digital video compression technique	ET7TVW06D100 820L30						01/10		
		31		MPEG1, MPEG2	ET7TVW06D100 820L31						03/10		
				MPEG3	ET7TVW06D100 820L32						05/10		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
		33		Review	ET7TVW06D100 820L33						06/10	Tut-2	
		34		Review	ET7TVW06D100 820L34						07/10		
7	21st Sept-26th Sept	Sessional I Examination											
8	28th Sept-03rd Oct	35	4	HDTV Standards and System	ET7TVW08D100 820L35						08/10		
		36		HDTV Transmitter and Receiver/encoder	ET7TVW08D100 820L36						10/10		
		37		Digital TV Satellite system	ET7TVW08D100 820L37						12/10		
		38		CCTV	ET7TVW08D100 820L38						13/10		
		39		CATV	ET7TVW08D100 820L39						14/10		
9	05th Oct - 10th Oct	40		DTH	ET7TVW09D100 820L40						15/10		
		41		Set Top Box with Recording Facility	ET7TVW09D100 820L41						16/10		
		42		3D TV systems	ET7TVW09D100 820L42						17/10		
		43	5	IP Audio & Video	ET7TVW09D100 820L43						17/10		
		44		IP TV System,	ET7TVW09D100 820L44						17/10		
		45		Mobile TV	ET7TVW09D100 820L45						19/10		
10	12th Oct-17th Oct	46		Video Transmission in 3 G Mobile system	ET7TVW10D100 820L46						19/10		
		47		Digital Video Recorder	ET7TVW10D100 820L47						19/10		
		48		Video Projector	ET7TVW10D100 820L48						20/10		
		49		HD Video Projector	ET7TVW10D100 820L49						20/10		
		50		Video Intercom System	ET7TVW10D100 820L50						20/10		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
		51		Review	ET7TVW10D100 820L51						21/10		
11	19th Oct-24th Oct	52	6	Colour TV Digital Camera	ET7TVW11D100 820L52						21/10		
		53		Camcoders	ET7TVW11D100 820L53						24/10	Assign-3	
		54		Handy cam & Digicam	ET7TVW11D100 820L54						26/10		
		55		Display Devices: LED	ET7TVW11D100 820L55						31/10		
		56		LCD	ET7TVW11D100 820L56						31/10		
		57		CD/DVD Players	ET7TVW11D100 820L57						02/11		
12	26th Oct-31st Oct	58		Blue ray DVD player	ET7TVW12D100 820L58						02/11		
		59		Dish TV	ET7TVW12D100 820L59						05/11		
		60		Review	ET7TVW12D100 820L60						04/11		
		61		Review	ET7TVW12D100 820L61						05/11		
		62		Review	ET7TVW12D100 820L62						05/11		
	05 Nov - 10 Nov	Sessional II Examination											

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CCOEW/ETC / 20-21

Date: 3/ 8 / 2020

LESSON & TEACHING PLAN for Engineering Physics

Department of Electronics and Telecommunication

Faculty Name: ProfJaya Gadge | Sub: VLSI Signal Processing (Elective-I) | Year : 2020-21 | SEM-VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Pipelining and Parallel Processing:Introduction of Pipelining,Types of Graph used in DSP system,DFG,SFG,DG &Data Broadcast structure,Pipelining of FIR Digital	ETC7VSPW01D100820L01				VLSI Signal processing & Implementation by Keshab Parhi,chapter no.3,page no. 63-74		10/8/2020		
					ETC7VSPW01D110820L02						11/8/2020		
					ETC7VSPW01D120820L03						12/8/2020		
					ETC7VSPW01D130820L04						13/8/2020		
					ETC7VSPW01D140820L05						14/8/2020		
2	17Aug-21 Aug20	5	I	Fine grain pipelining,Introduction of Parallel Processing,Designing a parallel FIR Filter,Numerical based on Parallel Processing	ETC7VSPW02D170820L06				VLSI Signal processing & Implementation by Keshab Parhi,chapter no.3,page no. 75-83		17/8/2020		
					ETC7VSPW02D180820L07						18/8/20		
					ETC7VSPW02D190820L08						19/8/20		
					ETC7VSPW02D200820L09						20/8/20		
					ETC7VSPW02D210820L10						21/8/20	Tutorial	
3	24 Aug-29Aug2	6	I	Pipelining processing for low power,parallel processing for low power,Combined processing for low	ETC7VSPW03D240820L11				VLSI Signal processing & Implementation by Keshab		24/8/20		
					ETC7VSPW03D250820L12						25/8/20		
					ETC7VSPW03D260820L13						26/8/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	0			power,Numericals	ETC7VSPW03D270820L14				Parhi,chapter no.3,page no. 84-88		27/8/20		
					ETC7VSPW03D280820L15						28/8/20		
				Tutorial	ETC7VSPW03D290820L16						29/8/20	Tutorial	
4	31 Aug-5 Sep20	5	II	Retiming,Introduction, Definition and properties,solving system of inequalities,retiming techniques.	ETC7VSPW04D310820L17				VLSI Signal processing & Implementation by Keshab Parhi,chapter - 4,page no. 91-108		31/8/20		
					ETC7VSPW04D020920L18						2/9/2020		
					ETC7VSPW04D030920L19						3/9/2020		
					ETC7VSPW04D040920L20						4/9/2020		
					ETC7VSPW04D050920L21						5/9/2020		
5	7 Sep-12Sep20	6	II	retiming techniques,Cutset retiming & Pipelining,Retiming for clock minimization,Retiming for Register minimization	ETC7VSPW05D070920L22				VLSI Signal processing & Implementation by Keshab Parhi,chapter - 4,page no. 109-118		7/9/2020		
					ETC7VSPW05D080920L23						8/9/2020		
					ETC7VSPW05D090920L24						9/9/2020		
					ETC7VSPW05D100920L25						10/9/2020		
					ETC7VSPW05D110920L26						11/9/2020		
					ETC7VSPW05D120920L27						12/9/2020		
6	14Sept-19Sept20	4	III	Unfolding-Introduction,algorithms for unfolding,Properties of	ETC7VSPW06D140920L28				VLSI Signal processing & Implementation by Keshab Parhi chapter		14/9/2020		
					ETC7VSPW06D170920L29						17/9/2020		

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8	28 Sept-03 Oct20	5	III	unfolding and retiming,Application of Unfolding,Numericals	ETC7VSPW08D280920L32				VLSI Signal processing & Implementation by Keshab Parhi ,chapter no.5,page no.129-147		28/9/2020		
					ETC7VSPW08D290920L33						29/9/2020		
					ETC7VSPW08D300920L34						30/9/2020		
					ETC7VSPW08D011020L35						1/10/2020		
				Tutorial	ETC7VSPW08D031020L36						3/10/2020	Tutorial	
9	05-10Oct 20	6	IV	Introduction,Folding Transformation,Registration minimization Technique	ETC7VSPW09D050920L37				VLSI by Keshab parhi,chapter no.6,page no.149 - 164		5/10/2020		
					ETC7VSPW09D060920L38						6/10/2020		
					ETC7VSPW09D070920L39						7/10/2020		
					ETC7VSPW09D080920L40						8/10/2020		
					ETC7VSPW09D090920L41						9/10/2020		
					ETC7VSPW09D100920L42						10/10/2020		
10	12-17Oct 20	5	IV	Registration minimization in folded Architecture,Folding in Multirate systems,Examples	ETC7VSPW10D121020L43				VLSI by Keshab parhi,chapter no.6,page no.165		12/10/2020		
					ETC7VSPW10D131020L44						13/10/2020		
					ETC7VSPW10D141020L45						14/10/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
					ETC7VSPW10D151020L46				186		13/10/2020		
				Tutorial	ETC7VSPW10D161020L47						13/10/2020	Tutorial	
11	19-24Oct 20	6	V	Fast Convolution:Introduction,Cook- Toom algorithm,Numericals	ETC7VSPW11D191020L48				VLSI Signal processing & Implementation by Keshab Parhi chp.8,page no.237-243		14/10/20		
					ETC7VSPW11D201020L49						15/10		
					ETC7VSPW11D211020L50						16/10		
				Modified Cook-Toom algorithm,Winograd algorithm	ETC7VSPW11D221020L51						17,19/10		
					ETC7VSPW11D231020L52						21/10.22/10		
				Tutorial	ETC7VSPW11D241020L53						23/24	Tutorial	
12	26-31Oct 20	6	VI	Iterated convolution,Cyclic Convolution Design of Fast Convolution Algorithm by Inspection,Numericals	ETC7VSPW12D261020L54				VLSI Signal processing & Implementation by Keshab Parhi ,chp.8 ,page no.244-253		26/10		
					ETC7VSPW12D271020L55						26/10		
					ETC7VSPW12D281020L56						27/10		
					ETC7VSPW12D291020L57						28/10		
					ETC7VSPW12D301020L58						29/10/2020		
				Tutorial	ETC7VSPW12D311020L59						29/10/2020	Tutorial	

Subject Teacher

Academic Coordinator

Faculty in Charge

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Date: 3/ 8 / 2020

LESSON & TEACHING PLAN for Engineering Physics

Department of Electronics and Telecommunication

Faculty Name: Prof.Jaya Gadge | Sub: Optical Communication | Year : 2020-21 | SEM-VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Introduction to optical fiber communication.	ETC7OCW01D 100820L01				1.Optical fiber communication- Senior 2. Optical fiber communication- Gerd Keiser Page No 1-9		10/8/2020		
				Principle of optical communication- Attributes and structures of various fibers such as step index,	ETC7OCW01D 110820L02						11/8/2020		
					ETC7OCW01D 120820L03						12/8/2020		
				graded index mode and multi mode fibers.	ETC7OCW01D 130820L04						13/8/2020		
					ETC7OCW01D 140820L05						14/8/2020		
2	17Aug-21 Aug20	5	I	Propagation in fibers-Ray mode, Numerical aperture and multipath dispersion in step index and graded index fibers.	ETC7OCW02D 170820L06				1.Optical fiber communication- Senior 2. Optical fiber communication- Gerd Keiser Page No 14-21		17/8/2020		
					ETC7OCW02D 180820L07						18/8/20		
					ETC7OCW02D 190820L08						19/8/20		
				Material dispersion and frequency response.	ETC7OCW02D 200820L09						20/8/20		
				Tutorial	ETC7OCW02D 210820L10						21/8/20	Tutorial	
					ETC7OCW03D 240820L11						24/8/20		

Faculty in Charge

Cummins College of Engineering for Women, Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no.Action. No	Link for quiz or test	Completion Date	Assignment Submit Date	Action
3	24 Aug-29Aug20	6	II	Signal degradation in fibers - Attenuation, material dispersion Absorption with examples	ETC7OCW03D 250820L12				Optical fiber communication- Gerd Keiser Page No 267-307		25/8/20		
					ETC7OCW03D 260820L13						26/8/20		
					ETC7OCW03D 270820L14						27/8/20		
					ETC7OCW03D 280820L15						28/8/20		
					ETC7OCW03D 290820L16						29/8/20		
4	31 Aug-5 Sep20	5	II	Scattering losses, bending loss, dispersion, Intra modal dispersion, Inter modal dispersion.	ETC7OCW04D 310820L17				Optical fiber communication- Senior Page No 423-446		31/8/20		
					ETC7OCW04D 020920L18						2/9/2020		
					ETC7OCW04D 030920L19						3/9/2020		
					ETC7OCW04D 040920L20						4/9/2020		
					ETC7OCW04D 050920L21						5/9/2020		
5	7 Sep-12Sep20	6	III	Introduction, fiber alignment and joint loss, single mode fiber joints, fiber splices.	ETC7OCW05D 070920L22				1.Optical fiber communication- Senior 2. Optical fiber communication- Gerd Keiser Page No 30-47		7/9/2020		
					ETC7OCW05D 080920L23						8/9/2020		
					ETC7OCW05D 090920L24						9/9/2020		
					ETC7OCW05D 100920L25						10/9/2020		
					ETC7OCW05D 110920L26						11/9/2020		
					ETC7OCW05D 120920L27						12/9/2020		
					ETC7OCW06D 140920L28						14/9/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refren Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
6	14Sept-19Sept 20	4	III	Fiber connectors and fiber couplers, Optical sources - LED and LASER. Structures and properties.	ETC7OCW06D 170920L29				1.Optical fiber communicatio n- Senior Page No 111-170		17/9/2020		
					ETC7OCW06D 180920L30						18/9/2020		
					ETC7OCW06D 190920L31						19/9/2020		
7	21-25 Sept 20	Sessional-I											
8	28 Sept-03 Oct20	5	IV	Photo detectors, Photo detector noise, Response time, comparison of photo detectors Tutorial	ETC7OCW08D 280920L32				1.Optical fiber communicatio n- Senior 2. Optical fiber communicatio n- Gerd Keiser Page No 50-60		28/9/2020		
					ETC7OCW08D 290920L33						29/9/2020		
					ETC7OCW08D 300920L34						30/9/2020		
					ETC7OCW08D 011020L35						1/10/2020		
				Tutorial	ETC7OCW08D 031020L36						3/10/2020	Tutorial	
9	05-10Oct 20	6	IV	Optical Receiver Operation, receiver sensitivity, quantum limit, coherent detection, burst mode receiver operation, Analog receivers	ETC7OCW09D 050920L37				Optical fiber communication- Senior Page No 111-170		5/10/2020		
					ETC7OCW09D 060920L38						6/10/2020		
					ETC7OCW09D 070920L39						7/10/2020		
					ETC7OCW09D 080920L40						8/10/2020		
					ETC7OCW09D 090920L41						9/10/2020		
					ETC7OCW09D 100920L42						10/10/2020		
10	12			Operational Principles of	ETC7OCW10D 121020L43						12/10/2020		
					ETC7OCW10D 131020L44	9/10/2020			Optical fiber communicatio		13/10/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
10	17Oct 20	5	VI	WDM, basic applications and types of optical amplifiers	ETC7OCW10D 141020L45	12/10/2020			n- Gerd Keiser Page No 400-424		14/10/2020		
					ETC7OCW10D 151020L46	13/10					15/10/2020		
					ETC7OCW10D 161020L47	14/10					16/10/2020		
11	19-24Oct 20	6	VI	Semiconductor optical amplifiers, EDFA.	ETC7OCW11D 191020L48	14/10			Optical fiber communication-Gerd Keiser Page No 424-430		19/10/2020		
					ETC7OCW11D 201020L49	15/10					20/10/2020		
					ETC7OCW11D 211020L50						21/10/2020		
				Measurement of Attenuation and dispersion Study of various application of optical fiber communication.	ETC7OCW11D 221020L51				Optical fiber communication-Gerd Keiser Page No 400-424		22/10/2020		
					ETC7OCW11D 231020L52						23/10/2020		
					ETC7OCW11D 241020L53						24/10/2020		
12	26-31Oct 20	6	V	Digital links – point-to-point links, System considerations, link power budget.	ETC7OCW12D 261020L54	21/10			Optical fiber communication-Senior Page No 449-470		26/10/2020		
					ETC7OCW12D 271020L55	22/10					27/10/2020		
				Rise time budget, transmission distance for single mode links.	ETC7OCW12D 281020L56	24/10			Optical fiber communication-Gerd Keiser Page No 316-326		28/10/2020		
					ETC7OCW12D 291020L57	26/10					29/10/2020		
					ETC7OCW12D 301020L58	27/10					30/10/2020		
				Tutorial	ETC7OCW12D 311020L59	28/10					31/10/2020	Tutorial	

Subject Teacher

Academic Coordinator

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Academic year

2019-20

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Date: 09 / 06 / 2017

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Ajay Tinguria | Subject: WMC | SEM 8th (2019-20)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	16-21 DEC	6	1	Evolution of mobile radio communication. Cellular telephone system, frequency reuse, channel assignment and handoff strategies		21/12/19				
2	23-28 DEC	4	1	channel assignment and handoff strategies, interference and system capacity		28/12/19				

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3	30 Dec-4 Jan	**6**	**1**	trunking and grade of service, improving capacity in cellular system.		4/1/20				
4	6-11 **Jan**	**5**	**1**							
5	13-18 **Jan**	**6**	**2**							
6	**08-13 JAN**	**5**	**2**							
7	20-25 **Jan**	#######	ANANNYA							

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8	27Jan-lFeb	**5**	**3**	Causes of propagation path loss		2/2/20 Assl			
9	3-8 Feb	5	3	causes of fading-long and short term		8/2/20			
10	10-14 GB	**0**		MID TERM TEST					
11	17-22 Feb	4	4	definition of sample average , statistical average, probability distribution, level crossing rate and average duration of fade, delay spread, coherence bandwidth, inter-symbol interference. Unit Fundamentalsof equalization, space polarization					
jz	24-29 I"eb	6	4	, frequency and time diversity techniques, space diversity polarization diversity,frequency and time diversity, fundamentalsof channel coding.					

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	13	2-7 Mar	6	5	Global system for mobile: services and features, GSM system arcliilcc1tirc. €iSM indio subsystem, GSM channcl tjpc. GSM t?aiiie structnire. signnl processing in GSM, introduction to CDMA digital cellular standard, Third generation wireless networks, 3G technology.	
	14	9-14 Mar	4	5	Difference between wireless and fixed telephone networks, development of wireless network, traffic routing in wireless networks.	
Dean Academics	15	16-21 Mar	6	5	Mobile IP and wireless access protocol, mobile IP, operation of mobile IP, collocated address, Registration, Tunneling, WAP Architecture, overview, WML scripts,WAP service, WAP session Protocol.	

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16	23-26 **Mar**	4	6	Infrared LANs, Spread spectrum LANs, Narrow bank microwave LANs, IEEE 802 protocol, Architecture, IEEE802 architecture and services, 892.11 medium access control, 802.11 physical layer. Wireless Application Protocol: architecture, WDP,WTLS, WTP, WSP, WAE,WML scripts.	
IB	28 Mar-3 Apr		PR£rMIVERMTYTEST		

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CCOEW/CE / 18-19

Oate: / / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOIVIEN, NAGPUR

Faulty Name: Prof. Pravin Gorantlwar | Subject: Applied V\aths TV | StM lv mC.(Zois-20) | sem:- Qty

WEEK No.	Week	No. Of Lect.	Unit No.	€xa<t Top\c Name & Subtopic	Activity/ Teaching Aid	Rafrence Book - @ppttr no. Page ftO,9dtttDn. ND	ICT tools	Completion Date | Assignment/Tutorial Date	HOD's sign
1	16 Dee-21 Dec	6	I	HY1tiERICAL METHODS -I For .Aaaalysis, Solution of .Algebraic and Transcendental Equations, hletltod of False position, Newton-Raphson method and their conrergence,Newton-Raphson method for multiple roots,	solving example by dividing " ""	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 9.1 To 9.10	PPTfvideo to solve **example and algorithms of method**	30-12-19	
2	**23 Dec-** 28 Dee	4	I	Solution of system of simultaneom linear equations: Gauss °:*-nination method ,Gauss Jordan method, Crnut's method, Gauss-Seidel method.	Solving example	Engineering Mathematics by Shobbane & Tembbekar Pg. no. 9.11 To 9.30	PPTfvideo to solve example and algorithois of method	01-01-20	
3	, 0 **04 Jan**	6	I	Numerical solution of ordinary differential equations: Taylor's **series** method, Riuige• **Kutta** 4th order method,Eu1eNs Modified Method,Milne s Predictor- Corrector method.	Solving example by **dividing** ""	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 9.27 To 9.40	PPT/vldeo to solve example and algorithms of metho6	15-01-20	

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V No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	06 Jan- **11 Jan**	5	}	Rxinge- Kutta melh Od to •Hlve simuJtarieous first Cirder differential eqoal ions,Largest Eigen * •" ^*d rjgen x•ectcr ay iterati Ort method- TuCoüall	**Solving** erampte	Engineering fi4stbemstic **Shobhane Tembhekar** Pp no. 9.41 To 9	*'PY*v*d tn " e **example and** Igori **of method**	27-01-20		
5	13 Jan- 18 Jan	5	*Tt*	**Z-TRANSFORM** Deflnitton , Convergence of Z-rraztsfoxztt and Prap'erties,Iztverse Z-transform by Partial E?actton Method,Residue Method (Inversion intégral Method)	Solvi08 exazapte	**Engineering** Shobbane & Teæbhekar 'Pg. no. 6.1 To 6.19	**PPT/video to solve example of inverse**	03-02-20		
6	20 Jan- 25 *3*an	**Anannya Cultural Festival**								
7	27Jao– OlFeb	{j	Ç\	**Power Series Expansion, Convolution** JDîffereoce Ectoatîoos wttb Constaztt Cöefflcients by Z- txansfortri Tutoxial 2	Sotving exemple	Engineeŕing Mathematies try Shobhane & Tembhekar Pp no. 6n0 To 6J7	**PPT/video to solve example of convolution theorem**	07-02-20	07-02-20	
8	03 *Web*- 08 Feb	5		Theory Of Probability pzobabûity,Baysnde,Randooi vaüablœ:Dîs‹ xe4eand'Coutînuous mndoœeañablœ	Selving eaample	Engineering Shobbane & Teinbhekar Pg. no. 11.02 To 11.8	**PPT**	25/2	25	
9	10Feb– 15Feb	SESSION I								
10	17 Feb— 22 Feb			Pzobability fun‹:tion und I3istzibution function,Joint distributions,Independent Randoœ vañables,Con‹ fHoiuüDîstñbuêon Tutoràal 3	5o\vÎag eseœple	Engineering Mathematics by Shobhane & Tembhekar Pg.no. 11.09 To 11.3	Pl•TR5deo for soh'ed exa sple of probability; funcuon	27/2	22/2	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	06 Jan-11 Jan	5	I	Runge- Kutta method to solve Simultaneous first order differential equations,Largest Eigen value and Eigen vector by Iteration method. Tutorial 1	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 9.41 To 9.46	PPT/video to solve example and algorithms of method	27-01-20		
5	13 Jan-18 Jan	5	II	Z-TRANSFORM Definition , Convergence of Z-transform and Properties,Inverse Z-transform by Partial Fraction Method,Residue Method (Inversion Integral Method)	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 6.1 To 6.19	PPT/video to solve example of inverse	03-02-20		
6	20 Jan-25 Jan	Anannya Cultural Festival								
7	27 Jan-01 Feb	6	II	Power Series Expansion, Convolution of two sequences,Solutions of Difference Equations with Constant Coefficients by Z- transform Tutorial 2	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 6.20 To 6.27	PPT/video to solve example of convolution theorem	07-02-20	07-02-20	
8	03 Feb-08 Feb	5	IV	Theory Of Probability Axioms of probability, Conditional probability, Bays rule, Random variables: Discrete and Continuous random variables	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 11.02 To 11.8	PPT	25/2		
9	10 Feb-15 Feb	SESSIONAL-I								
10	17 Feb-22 Feb	5	IV	Probability function and Distribution function,Joint distributions,Independent Random variables, Conditional Distribution Tutorial 3	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg.no. 11.09 To 11.34	PPT/video for solved example of probability function	27/2	22/2	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
11	24UeM 29Fe&	6	V	**Mathematical Expectation** **Functions of random variables, Varience & Standard devation**	**Solving** example	**Engineering** Mathematics by Sbobhsne & Tembheknr Pg.no. 12.2 To 12.8	**PPT/video for solved example of mathematical exceptation**	02/3		
12	02 Mar- **07 Mar**	6	V	**Moment, Moment generating function, Covariance, Correlation** Coeffi‹ñent, Conditional Expectations, Other measures of central tendency **and dispersion, Skewness and Kurtosis, Tutorial 4**	**Solving example**	Engineering Mathematics by Shobbane & Tembhekar Pg.no. 12.9 To 12.22	**PPT**	09/3		
13	**09 Mar- 14 Mar**	5	III	SPECIAL FUNCTIONS AJ'4D SERIES SOLUTION **Series solution of differential equation by Frobanius method,Bessel's functions,Legendre's polynomials**	**Solving example by dividing group**	**Engineering Mathematics by Shobhane & Tembhekar Pg.no.8.1 To 8.16**	**PPT**	13/3		
14	**16 Mar- 21 Mar**	6	III	**Recurrence relations,Rodrigue's formula, Generating** functions,Orthogonal properties of }ri(x) and Tn(x) Tutorial 5	**Solving example**	**Engineering Mathematics by Shobhane & Tembhekar Pg.no.8.16 To 8.40**	**PPT**	18/3		
15	**23 Mar- 28 Mar**	5	VI	Probability Distribution Binomial distribution, Poissnn disturbu tion, Normal distribution, Relation between Binomial, Poisson and Normal distribution,Centrel Limit tbeorem, Exponential Distribution.	**Solving example by dividing group**	**Engineering Mathematics by Shobhane &** Tembhekar Pg.no13.1 To 13.18	**PPT/video for solved example of Probability distribution**	25/3		
16	**30 Mar- 3 Apr**	5		Revision						
17	**4 Apr- 9 Apr**			Sessional \l						

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CCOEW/CTC / 19-Z02O

Date: J6/ 12/ 2020

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. A. A. Baseshankar | Subject: EMF | SEM IV ETC(2019-2020) | Sem:- EVEN

\I\HEX No.	Week	No.OO Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teatsirig Aid.	Refrenze Book - Chapter no. Page no,edition. No	ICTtoo\5	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16 Dec - 21 Dec	6		Introduction to Cartesian, Cylindrical coordinate system	Nuaiericals and daily life example	Engg. Electromagrletics byHayt	PPT and NPTEL Video	21st Dec 2020		
2	23 Dec - 28 Dec	4		5pherical coordinate system, Differential Length, surface and volume	Numericals and daily life example	Engg. Electromagrietics byHayt	PPT and NPTEL Video	>a" Dec 2020		
3	30 Dec - 04 Jan	6	I	Electric field intensity, flux density, Gauss's law, Divergence, Divergence Theorem	Daity Life example and Numericals	Engg. Electromagnetics byt)ayt	PPT and NPTEL Video	4th Jan 2020		
4	6 Jan - 11 can	5		Electricpotential and potential gradient.	Nuiuericals	Engg. Electromagrietics by Hayt	PPT dnd NPTEL Video	6 Jan		

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–	13 Jan- lS Jan		II	La{,iace and Ut ss eqtiations Curv•iit derisib aud co·ntinuity eqiiatioii, Biot-3ax'crt*s lawAiiipere's circuital fan	f'ep(otjniqg experiment nt Biol Sax'art Lax in Law	Engg. Electromagrietics by Hayt	PPT arid NPTEL Video	21 JAN	
6	20Jan- 25 Jan	ANNANYA 2020							
6	27 Jan - 1 Feb	6	II	.fipplications,Magnetic flux and Flux density, Scalar and Eiector magnetic potentials.Maxwell"s equations for steady fields	Numqyical9	Engg. fileCtfOmagneticS by Hayt	PPT and NPTEL Video	05Feb	
7	3Feb - 8 Feb			Maxwell's equations for time varying fields.Electric and magnetic boundary conditions.Electromagnetic wave equation, wave propagation in free space.	Nuaiericals and daily life example	Engg. £teCtzoma eyes by Hayt		1	Assignment of 07 Feb. 2020
SESSIOOAL-I/10Feb-14Feb)									
8	17 Feb - 22Feb	4	III	*V*umerical Practice Based On Maxwell's equations	Numericals	Engg. Electromagnetics byHayt	PPT and NPTEL Video		
9	24Feb- 29 Feb	6	IV	Wave equation in perfect conductor,skin effect,Poynting theotern,power how	Numericals	Engg. Electrornagnetics by Hayt	PPE and NPTEL Video		

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	2 Mar - 7 Msr	6	IY	Reflection and rel ction of uniform plane wave	Numericals	Electromagnetics by Hayt	NPTEL Video
11	9 Mar 14 Nfar	4	IV	Polarization of wave	Numericals	Engg. Electromagnetics by Hayt	PPT and NPTEL Video
12	lb Mn -21 Mar	6	V	Rectangular waveguide,TE,TM.TEM waves,wave impedaiince	Numericals	Engg, Electromagnetics by Hayt	PPT and NPTEL Vi&o
13	25 Mar -28 Mar	4	V	Numerical Based on rectangular waveguide Radiation Resistance,short dipoIe,Magnetic and electric field due to oscillating dipole	Numericals	Engg. Electromagnetics byHayt Engg. Electromagnetics by Hayt	PPT and NPTEL Video PPT and NPTEL Video
14	30Mar-31 Mar	2	VI	Seminar on Antenna eIFiciency,Beam width,Radiation Intensity,Directivity,Power Gain,Front to bach ratio	Numericals	Engg. Electromagnetics by Hayt	PPT and NPTEL Video

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Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Hingna, Nagpur-441110.

CfO£Vt'/ D e p a . i t of Oectronits and Tetecommunicatipn / Date- 09

LESSON & TEACHING PLAN

CUMMINS COLLEGE OT ENG\NEERING FOR WOM£M,NAGPUR

Faculty Name: Prof. Ajay Tinguria | Subject: DCFMU | SEM 4th {20t9-20)

WEEK No.	Week	No. Of Lect.	Unit No.	Ernst Topic t4ame &5ubtnpic	Refrence Book - Chapter ne. Page no.	Completion Date	Assignment >	Tutorial	HOD's remark	Principal
1	1M?I DEC	6	I	Rivision of Binary Number System	Modem Digital Electronics Microprocessor Architecture and Programming	21/12/19	Ass	19/12 X2. 20/12		
2	35-28 DEC	4	1	Standard representations for logic functions, k map representationf logic functions (SOP & POSforrns),	Modem Digital Electronics Microprocessor Architecture and Programming	23/12/19		26/12		

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3	30 Dec-4 Jan	6	1	Standard representations for logic functions, k m p representation of lo c fiinctions (SOP OSJ Onns),	MOdern Diq°itnl Electronics MÏCfiOPrOcesso, Amhitec <d Pro ing	4/1/20		30/12		
4	6-11 Jan	5	1	Bin .' Adders. Subti actoq BCD AÖders d subtractors	M dem Digtal Electronics Mie processor hitec a•d Pr g	11/1/20				
5	3-18 Jan	6	2	minimization of logical functions for -tep amd max-terms (upt q *' tables). don't careconditions,	Moder• Digital Electroæcs M //OP*ocessor ChitecWe and ming	18/1/20				
6	08-13 JAN	5	2	Design Examples: Arithmetic Circuits, BCD–to – 7 segment +ecoder, Code converters.	Modem xligttal Electronics Jcroprocessryr Afchitec ire and Promo g	13/1/20				
7	20-zs tao	######	AN°^^rrA							

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8	27 Jan- #Peb	s	3	Multiplexersand their use in combitlaiioliaJ logic designs, wtuttiplexeY trees,	Modem Digital Electronics Microprocessor Architecture and Programming	28/1/20
9	3q F$_e$b	5	3	DtMuHQexemAndDecode Logic fonction implementation using decoders	ModeroDlgiîBl EbrfioÄs Microproeessor Architecture and Programming	8/2/20
10	10-14 rxa			MBDTERMTEST		
11	17-22 Feb	4	4	1 Bit Memory Cell, ClockedSR, IK, MS J-K flip flop ,D and T flip-flops.Use of preset and clean terminale	MoB:mDi@ta Electronics Microprocessor Architecture and Piogramming	22/2/20
12	24-29 Feb	6	4	Excitation Table for flip flops. Conversion of flip f1ops.Regislers, Shifi registers, Counters(ring counters, twisted ring counters)	Modem Digital Electronics Micioprocessor Architeetuse and p p g	29/2/20

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13	2-7 Mar	6	5	Sequence Generators,ripple cɒmltot".s. tqp/¢TowM cnurttcr^• syni hroiions counters• lock out , Uloek1'rograrr‹i «^ * *gic d *ices' })2tgtJ nyclsitecttire, StYt@ Of PROM, PAL, PLA, Designing combinational circuits uaing PLDs.	Modern Di_ital Electronics Microprocessor Architecture and Programming	7/3/20				
14	9-14 Mar	4	5	Introduction to microprocessor, Architecture of 8085 microprocessor, Addressing modes, 8085instniction set,	Modern Digital Etectronics Microprocessor Architecture and Programming	14/3/20				
	I6-2J Mar	6	5	Concept of assembly language programming, Interrupts.Classification and characteristics of memories: RAM, ROM, EPROM, EEPROM, NVRAM, SRAM, DRAM, expanding memory size, Synchronous DRAM (SDRAM), Double Data Rate SDRAM,	Modem Digital Electronics Microprocessor Architecture and Programming	Webinar Tand 8 April20				

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16	23-26 **Mar**	**4**	**6**	Synchronous SRAM, DDE and QDR SRAM. Content Addressable MemoryClassification of logic families , Characteristics of digital lCs-Speed of operation , pOW<i dissipation, figure of merit, fan in, fan out, Comparison table of Characteristics of TTL, CMOS, ECL, RTL, I2L,	Modern Dig¡tqJ Electrq^{gl}¡q MicroproCesspt Architecture and Programming	Webinars 7 and 8 April 2020					
18	28 Mar- **3 Apr**			**PRE UNIVERSITY TEST**							

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Shaping Engineering Women with a Difference

Date:

LESSON AND TEACHING PLAN

Faculty Name: Prof.S.Bhattacharya | subject: PDM | Year 2018-19 | gem:IV (ERQ

Month	Week No	No of Lecture	Unit No	Exact Topic Name& Subtopic	Activity/Teaching Aid	Reference Book-Chapter No, Page No	ICT Tools	mpletion Date	Assignment /Tutorial Date	HOD's Sign
16th Dec to 21st Dec	1	3	5	Introduction on Three Phase Transformer		B.L.Thereja, "Electrical technology", Vol -2: Page no 1211to 1242		16/12/19		
				Differerent Transform c•nnecto : se -Star, Sta -oeka, Delta- Delta, Delta -Star, open Delta				19/12/19		
				Three phase to Two phase conversion (Scott Connec.)				19/12/19		
				Parallel Qperation of Transformer				20/12/19		
23rdDec to 27th Dec	2	5		Introduction to Yhree phase Induction Motor, Principle of operation, Necessityof Starter				20/12/19		
				DOL Starter, Auto Transformer Starter				21/12/19		
				Star Delta Starter, DifferentSpeed control Technique				23/12/19		
				Ellustration of Speed control technique				24/12/19		
				Numerical on Three phase Induction Motor				26/12/19		
				Tutorial				27/12/19		
30th Dec to 4th Jan	3	6	6	introduction of DC motor,PrincipIe of operation		B.L.Thereja, "Electrical technology", Volume 2: Page No 1032 to 1358		27/12/19		
				Types of DC mot				30/12/19		
				Speed Contra of DC Shunt motor: Flux Control Method, Rheostatic Control Method				31/12/19		
				Armature Control Method, Voltage control method				31/12/19		
6th Jan to 10th Jan	4	5		Speed Controlof DC Sei•s Motor: Flux Control Method				03/01/20		
				Numerical on DC iTIOtOf				04/01/20		
				fJumericalon DC iTIOtOI"				06/01/20		
				Universa) motor: Construct'o^• Operation,Advantages,Application				06/01/20		
				Tutorial				06/01/20		
13th Jan to 26th Jan	5	6	1	introductionto Power Devices		B.L Thereja, "Electrical technology", Volume 2: Page No 1032 to		07/01/20		
				SCR Construction,Operation				07/01/20		
				of o ra istor Analo static & OYnamic Characteristics,Switching Characteristics of SCB				08/01/20		
								08/01/20		

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t7th Jan ro 24th				ANANNYA CULTURAL EVENT WEEK		
27th law to 01 Feb	8	'	'	IGBT Construction, Operation, Steady Stage Characteristics Switching Characteristics, Safe Operating area Need for gate fbase drive circuit, Isolation Techniques Base drive circuit for BJT Power MOSFET Construction, Types & Operation		M.D.Singh & Khanchandani: "Power Electronics" Page No 159-221
03rd Feb to 07th Feb		g	y	Forward and Reverse bias operation Gate drive circuit for MOSFET and IGBT GTO Construction & Operation Turn Off Mechanism, Application of GTO Tutorial		
10 hFeb to 14th feb				SESSfONAIL TEST		
17th Feb to Zist Feb	10	6	3	Introduction: Controlled Ractifier, Single phase Half Controlled Rectifier Single Phase fully Controlled Recifier with Resistive Load, inductive Load Bridge Configuration with Resistive Load, inductive Load, Effect ofFree Wheeling Diode inree dnase nair wave oncroiieo xec icier wi n ftesisEive load Three Phase Full wave Controlled Rectifier with Resistive Load		M.D.Singh & Khanchandani: "Power Electronics" Page No.(431 to 451 & 500 to 522 I
24th Feb to 29th fieb	11	5	3	AC to AC converter (Cyclo Converter) Principle, Operation Single Phase AC Voltage Controller for Resistive Load, RL Load Three Phase AC-AC Voltage Controller with Resistive Load Application of Cycloconverter Tutorial		
2nd Mar to 7th bear	lz	6		Introduction to Chopper, Working Principle Step Up & Step Down Chopper Class A, Class B, Class C Chopper Class D, Class E Chopper		

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				Control Strategies of Chopper	
yth Mart0 13th Mar	13	6	4	ntroduction to Inverter, Classification Working Principle of Single phase Half Bridge inverter with R and RL load Workin8 Principle of Single phase Full Brtdge InveKer With R and RL load	M.O.Singh & Khanchandani: "Power Flactronits" Page No.(434-444 & 535-574)
16th Mar0 21st Mar	is	4	Rev	120 Onvene Bridge Phase Three Tutorial Phase Bridge Inverter in 180 degree Mode Revision of Unit 1 Revision of Unit 2 Revision of Unit 2	t A o d g r e e Three
23rd N8rt0 z7th Mar	17				
30 March to 3"				Sessional 2	

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CCOEW/ETC / 19-20

Date: 9/ 12 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Jaya. M.Gadge | Subject: OCOM | Year : 2019-20 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name& Subtopic.	Activity/ Teaching Aid	Refrence Book- Chapter,ito: Page ..no,edition. No"	ICT tools	Compiëtion Date	Assignment/ Tutoriel Date	HOD's sign
t	9-13 Dec	5		Bridge Course						
2	16-21 Dec	6	I	Review of Random variables, PDFs & CDFs, Central limit Theorem		Digital communication: Simon Haykin (WEP)	Introduce Edmodo App	26/12/19		
	23-28Dec	4	1	Model of digital communication system, Gram Schmitt Orthogonalization procedure, Signal space concept	showing concellary Signal Space diag, Practical		https://www.youtube.com/watch?v=aJ_awJDih18	21/12/19 → 30/12/19	27/12/19 (Tutorial 1)	
4	30 Dec - 04 Jan	6	I	Geometric interpretation of signals, probability of error, correlation receiver, matched filter receiver			https://www.youtube.com/watch?v=TFOO1JAII2Y	31/12/19 → 04/01/2020		

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		No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools		Date	
5	06•11 Jan	5	II	Source coding Theorem, Huffman coding, L-Z encoding algorithm		Digital communication: simon Haykin (WEP)	https://www.google.co.in/attons+of+retImIng&o q=poff a n f timing&aqs=chrome.69 SŽ.22D91iOi8&sourceId=ch	30/01 14/01/20		
6	13 -18 Jan	5	II	RRie distortion theory for optimum qunntization, scalar & vector quant' t' n	Video lectures		https://www.youtube.com/watch?v=_jW4D23GV8Q	15/1/20 27/01/20	Tutorial 2 28/01/20	
7	20-25 Jan	Annanya								
8	27 Jan 0I Feb	6	II	Waveform coding methods: ADPCM, Adaptive Sub-Band & Transform coding, LP & CELP coding,		Digital communication: simon Haykin (WEP)		28/01 01/02/20	Assign ment I 03/02/20	
9	03-08 Feb	5	III	Coherent Binary: QPSK, MSK, Gaussian MSK		Digital Communicatiorc J.S.Chitode	PPT	05/02/20 07/02/20		
10	10-14 Feb	5	Sess1os›aE-I							
11	15-19 Feb	5	Industry vżsšt							
12	10-14 Feb	5	III	DPSK,Memory less modulation methods, linear modulation with memory,nonlinear modulation methods with			PPT	18/2/20 27/2/20		

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13	24-29 Fet›	6	IV	Introduction to Galois field, Construction of Galois field GF (2 in) & its banic properties	Error control coding: ShuLin		
14	2-7h'tarc li	6		Types ot"eiior control: Foiavard en'or correction (FEC), Automatic i'epeat request system (ARQ). Convolution encoding and decndino	Digital Communication: J.S.Chitode		9/3/20 Tutorial 13/8/20
15	9-14 Marsh	4	IV,V	Distance properties, Viterbi algorithm and Fano algorithm. Trellis coded modulation, Introduction to Turbo coding	Digital Communication: J.S.Chitode,Digital communication: Simon Haykin (WEP)		
16	1D21 **March**	6	V,VI	Reed Solomon Codes: encoding & decoding,Low density parity check coding (LDPC), Study of PN sequences,direct sequence methods	Digital communication: Simon Haykin (WEP)		Assignment 02
17	'25 8 March	4	VI	Frequency hop methods, slow and fast freqiiency hop,synchronization methods for spread spectrum,	Digital Communication: J.S.Chitode		04/3/20

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No.	Week	No. Of Lect.	Unit No.	ERBGt IOpIC Rfarrie & Subtoplc	Activity/ Teaching Aid	Chatrrer no. Page ,edi -	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
la	30Mar-4 Apr	2	VI	Application of spread spcctrum, C D I . Introduction to OFDM		Digital Loiniontcotion: J.5.Chitode		5/3/2020		
19	4-9 Apr	5		SeSsional 11						

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V/ETC / 18-19

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

r Name: Prof. Saurabh S. Nimkar | Subject: CONTROL SYSTEM ENGINEERING | Year : 2018-19 | Sem:- VI

No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
	24-30 Dx	6	I	InProduction to Control System Engineering & Block Diagram Reduction Technique "	Shows the conventional tubes and Control System tubes	1.J. Nagiath"Contiol System Communication" Wiley Second Edition Unit Number 1,2,3,4,6,7	29-12-19		28-12-19	
	1-5 Jan	5	I	Signal Flow Graph Technique, Massons Gain Formula	explain with existing klystron generator in lab		4-01-20	NPTEL	8-01-20	
	7-11 Jan	5	I	Reflex Klystrons, slow-wave structure: TWT with Numericals and Derivation	PoWei measurement usin g Reflex Klystron with variation by practically		10-01-20	Micro & PPT	9-01-20	
					Anannya 2018-t9					
	21-25 Jan	5	I	BWO(Backword wave oscillator),Magnetron oscillator and its types		Control System and Radar Engg. By M.KuIkar- I -ge no. 339-368)	24-01-20		28-01-20	

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
	28Jan-2lFeb	6	II	Introduction of Control System Components.Introductionto rectangular waveguide & waveguide excitation		S.Y. Liao, "Control System Devicesand Circuits", Prentice Hall India and Control System and Radar Engg. By M.Kulkarni(Page no. 199-260)	https://www.youtube.com/watch?v=gtGlRzGMU	NPTEL 3.01		
	04-08 res	5	II	Princfples of S-parameters, Spaiameters for multi-ports (2-port, 3-port, 4-port etc.)	PPT	S.Y. Liao, Control System Devises and Circuits", Prentice Hall India and Control System and RadiÎ' Engg. By M.Kulkarni(Page no. 199-240)	https://www.slideserve.com/Gabriel/chapter-four-nele-odi'a"on	NPTEL 7.01		
	11 Feb-16 Feb	6	II	properties of S-matrix, Derivation ,uuveguide Tees (E, H, E-H pJan«) Directional Couplers, matched terminations	Taking Real timeApplitations		http://thes.com/papers/CHE/2013/Septemge r—OctPber/CNCE-üt04530101.pdf htt ps:// /www youtube.com/wat h?v= bPse 2c	NPTEL 15.4		
		5		Sessional I						
	25 Web-2 March	6	II	Control System attenuators,S1otted line, Ferri te devises Circulators, Isolators, gyrators.	ICT Tools (PPT)	S.Y. Liao,"Control System Devices and Circuits", Prentice Hall India and Control System and Radar Engg. By M.KuIkarni(Page no. 241-260)		NPTEL 1.02		

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No.	Week	No. Of Lect.	Unit No.			
		5	IV	Control S2 Stern mMsurcinent: Introduction to Control System TleasllTelReJits. definition and measurement methods of frequency,power, attenuation VSWR, impedance, insertion loss, dielectric constant, Q of a cavity resonator, phase	S.Y. Liao, "Control System Devices and Circuits", Prentice Hall India and Control System and Radar Engg. By M.Kulkarni(Page no. 261-296)	
	2-7 April			Sessional II		

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p.	Week	No. Of Lect.	No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book, Chapter no. Page no,edition. No	ICT tools	$ plytlon oata	AgslSriment/Tutorlel Date	HODs slgn
	4-4 htarch	5	III	•'•Olld •<t9tc COtltTvol SyStctjl De 'ices.Pernni •tric Rniplifiets. l•ljq diodcs. Transferred Elcetrr›n dc 'ices: Gutin diode.A al:niche diode. Transit Time dc -ices like IblPATT, T 4PATT diodes.	Video Lectures	S.Y. Llao, "Control System Devices and Circuits", Prentice Hall India,Control System and Radar Engg. By M.Kulkarni(Page no. 369-jg$)				
	I1-16 hlarch	6	V	Intmduction of Radar Fundnirtenio1s:Basic principles end fundomeninls of Rndar , block diagmm of basic radar, classification, rodar performance factors	TFT	Skolnlk, "Principles of Radar Engineerlng", Mccraw Hill Publications and Control SYstem and Radar Engg. By M.Kulkarni(Page no. 513-S45)				
	18-2? March	4	V	radar renge equation, factors influencing maximum range.Numericals based on Radar range Equation .effects of noise, Pulsed radar systems.	PPT					
	25-30 March	6	VI	Antennas and scanning, display methods, moving target indication, radar beacons, CW Doppler radar,FM CW phased orray radars, applications of radar	PPT	Skolnik, "Principles of Itadar Engineering", McGraw Hill PubtcaGonsand tootoi System and Radar Engg. By M,Kulkarnl(Page no. 545-570)				

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Sharpening Engineering Acumen

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/ETC / 19-20

Oate: 16/AZ/2019

LESSON & TEAtH)NG PLANT for Telecommunication Switching Systems

Oepartment. of E\ecttontcs and **Ie\eCommunication**

Faculty Name: Rucha CJ'thanda1kar | Year : 2OiS-2020 | **Sem: VI**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book - chapter no. Page no,editIon. No	ICT tools	Completion Date	Assignment/Y utorial Date	HODs sigu
1	16-21 Dec	6	I	Principles of manuat switching system, electronic telephone, local and central battery system, trunk exchange, junction working.		Thiag‹a)nn Vishwanathan (chapters 3c2: page no.1-49)	SEG Communicatons	14/12/19 tue 24/12/19		
2	23-28 Dec	4		Automatic telephony: strowger exchange, line switches and selectors, ringing and tone circuit.		Thiagrajan Vishwanathan (chapterl &2: page no.5tL59)		26/12/19 tue 30/12/19		
3	30 Dec-4 Jan	6		subscriber unise\ector circuit, trunking diagram, cross bar switching system.Message switching, Circuit switching, manual switching and Electronic Switching.		Thiagrajan Vishwanathan(chapter 3 :page no. 62-84)		30/12/19 tue 6/1/2020		

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No.	Week	No. Of Lect.	Unit No.	E*er#topkn*me# pq	Activity/ Teaching And	Raferance Book - Chapter rto. Page	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	6-11 Jan	5		'ñ'l·^ s+*"tch'^g.' S\v tching functions, space divisioT1 SSvitChing, time division switching, two dimensional s>vitc)ling, digital cross connect systems, digital switching in an analog environment.		Thiagrajan Vishsvanathan(chapter 5 R 6 : page no. 141 -226	6	6/1/2020 to 25/1/2020		
S	13-18 Jan	5	I[I	Single Stage Neavorks,Gradings: Principl£:,Designof progressive grading, other gradings, Traffic capacity of gradings,Applicationsof gradings.LinkSystems: General, Two stage networks, three stage networks.		J.E.Flood (chapter 5 : page no. 117 to 137)				
6	20-2S Jan				Anannya 2K19					
7	a ” eb	6	iii	Grades of service oflink systems: Menera\, Two stage networ\<s,three stage networks, Call packing, Rearrangeablenetworks, Strict sense non blocking networks, Sectionalized switching networks Control of Switching Systems		J.E.Flood (chapter 5 : page no. l38to 154)				
8	3-8 Feb	S		Call processing Functions: Sequence f operations, Signal exchanges, State transition diagrams. Common Control, Reliability, Availability and Security.		J.E.Flood (chapter 7: page no. 176 to 191)				
9	10-14 Feb				Sessional I					

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	17-22 Feb	4	V	Integrated Services Digital Networks: ISDN, Network and protocol *·chitect ore', Transmission Channels, Us$_{e'r}$ $_{P/}$etwork irjt$_{E'}$rfaces		Thiagrajan Vishwanathan(chapter 11: 490 - 553}		9/3/2020 to		
11	24 Feb-29 Feb	6		*gitaling, Number¡ng and Addressing, ISDN Standards, Broadband ISDN, Voice Data Integration		Thig rg'an *ishwanathan} chapter 11:490 - 553)				
12	2-7 Mar	6	VI	Mobile telephone services, cellular telephone, Frequency reuse, Interference.Cellular System tOpO|Ogy,ROaming and handoffs, Cellu\ar telephone network <omponentsCelluIartelephone calls processing. Cellular Telephone systems: Digitalcellular telephone		Wireless communication by T.S.Rappaport(chapter 3 : page no. 57 - 97)		24/2/2020 to 3/3/2020		
13	9-14 fiAar	4	II	Unit of Traffic, Traffic measurement, a mathematical model,Lost- call systems: Theory, traffic performance, loss systems in tandem.		}Efl0odchapMi 4: page no. 87 - 113)		4/3/2020 to		
14	16-21 Mar	6		Queuing systems: Erlang Distribution, probability of delay, Finite queue capacity, systems with a single server, Queues in tandem, delay tabled and application of Delav formulae.				26/2/2020		

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15	23-28 Mar	4		analysis: Tramc ci›a a•t₍t\st\cs: Arrival Oistrihutions,Holding t'ime Distribution. Less Systems: Lost Calls cleared,)ost caIIs returning, lost calls Held, lost Calls cleared.					27/2/20 10 5/3/2020 Seminars	
16	30 Mar-4 Apri	5	IV	Timing: Timing Recovery, Clock Instability, Elastic Stores, fitter measurements, systematic jitter,1iming Inaccuracy: Slips, Asynchronous Multiplexing, Waiting time jitter. Network Synchronization: Ptesiochronous, pulse stuffing, mutual synchronization, Network master, Master- S\ave sYnchronization,Hierarchical synchronizationProCesses,Network management:Routing contrOl£OW control.		J,E.Flood (chapter 2: page no. 16 - 47)			2/3/2020 10 9/3/2020	

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande | **Subject: Functional English** | Yenr <2019-z0j | **Sem:-VI**

\\'EE K No.	Week	No.Of Lect.	Unit No.	Exaei Topie Hnme fi Subtopic	Retrence Book - Chzptcr no, **Pzge** no	Com pl•ilon Date	Asslgnmeri t Daie	HOD's reanrk	**Principal**
1	**16-21 Dec 19**	1	2	*ish* fi i : IPA,\l'ord Building,Synonyms,Antonyms,Ansloglci	Qiiich Lesrning obJectiveGeneral RngJisíi, Funclional Eng. Por Tech.Stu. Hlmalaya Pub.{pg no. **57-86)**	J't,	$ W		
2	**23- 27 Dec 19**	2	1 &2	Gi› e Ooe wozd for, Phrases, 1diozas anü proverbs	objectiveCeneral English,Functionat Eng.For Teeh.Stu. Himalaye Pub.(pg	26/12			
3	3s Jan zo•o	1	1	Funcfioztnf Grammnr : Actlve Psssive, Narratlon	Functional kng.For Tech.Stu. y-tiaatsya Pub.(pg ao.2-		J" E		
4	z020	1	1	**Functional Grammar : Common Errors**	**ob*cfive€*oeW** Englisb,Functional **Eng,For** Teeb.Stu. Himataya Pub.(pg	11			
5	t3-18 Jsn 202fI	I	ï	**Functional Grammar : Common Errors**	Funetional Eng.For Tech.Stu. Hinialaya Pub.tpg no.108-t10,113-129)	17/1 18/1			
7	27-1 Feb **2020**	2		Functional Grammsr: Transformatíoti of Sentcnces	Functional Eng.For Tech.Sta. Himalaya Pub.(pg no.t3z-139)	1			
$	3-7 Feb 2020	**2**	**3**	Business Formal Correspondence (A): LetterstCopmptaint,Notiees,Circutats,Memos)	Functional Eng.For Tech.Stu. Himalaya Pub.{pg no.111-112)				

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CCOEW/ Department of Mechanical Engg. / 19-20 — Date: 16 / 12 / 2019-20

9	10-14 Feb 2020	Sessional I (10 Feb- 14 Feb2020)								
11	24—29 Feb 2020	2	4	FormtRl CoCC9spttttttence (A}: Business 1.etters(Copmpl nint,Ü otlces.Circnlars,hlenins)	Functionui Enq. *For* Tel h-St0-it ɪmara a P•h ,rg •• re **no.111-112,145-178)**	25/2 27/2				
12	2-7 March2020	2	4	\5'riting Résume, fntewie»' "rechniqu e,E-mail **etiquettes**		9/3 exta 1,3/3,5/3				
13	9-15 March 2020	2	4	Forma t Correspendeece (B): Teclinical Report wr'	Functinnal Emg.For TflCh.Stu. Himai»ya Pub.tpg °.t8o-2A7i	9/3				
14	16-21 March 2020	2	4	Fnrmzl Corrcspondence (B): Technicnl Report wriling		12/3				
15	23-27 March 2020	2	4	Analytical comprehension: (fictional ,non-fàctional unseen test)	**Analytical** ç0ypr'ghens¡ 0ɳ ,Functional Eng.For Tecb.Stu. Himalaya Pub tpg no. 144-178)	16/3 21/3				
16	30-31 March 2020	2	4	Features of Tecbnieal and Scientific writing	Features of Technical and Scientific writing,Functional Eng.For Tech.Stu. Himalaya Pub (pg no.179-215)	23/3				
		Sessional 2 (4th April - 9th April)								

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CCOEW/ETC / 19-20 Date: 16/12/2019

LESSON & TEACHING PLAN for Digital Image Processing

Departmentof Electronics and Tele Communication

Faculty Name: Rucha C Khandalkar | Year : 2019-2020 | Sem: VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name& Subtoplc	Activity/ Teaching Aid	Reference Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	utorial Date	HOO's slgri
1	16-Z1 Dec	6	I	Digital image Fundamentals:- Components of Image Processing System,Image Sensing and Acquisition, Spatial and Gray Level Resolution	Gram Solving questions	Digital Image Pracessingby Gonza(ez & woods pg23-121		16/12/19 to 21/12/19		
2	2J-28 Dec	4		Basic Relationshipsbetween Pixels, Statistical parameters, Measures and their significanceMean, standard deviation, variance, SNR, PSNR etc.				23/12/19 to 27/12/19		
3	30 Dec-4 Jan	6	III	Image Transforms:2D-DFT, FFT, DCT, the KL Transform, Walsh/Hadamard7ranSfOFf7t,bg9* Transform, slant Transform , B2SiCs of wavelet t/ansform.	Numericals & Dsp questions	Fundamentals of oitit•i <mage processingby Anil k. Jain pg[132-177)		30/12/19 to 31/1/2020		

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WEEK No.	Week	No. Of Lect.	Unit No.		Activity/ Teaching Aid	Reference Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	6-11 Jan	5	II	Image Enhancement:- Enhancement in Spatial Domain: basic gray level transformations, histogram processing,equaIizatiOn,Arithmetic and lOÇiCal operations between images, Basics of spatial filtering, smoothenine and sharoenino snntiol	brain storming questions	Digital Image Processing by Gonzales & woods pg126-187	Slideshare in	18/2/2020		
5	13-18 Jan	5		Image Enhancementin frequency Domain: smoothening and sharpening frequency domain filters, Fundamental of color image processing: color models, RGB, CMY, YIQ HIS,				Assignment		
6	2D-Z5 Jan		Anannya 2K19							
	27 Jan-1 Feb		II	Pseudo Color Image processing• tntensity filtering, gray level to color transformation,Basics of full color, image processing.		Digital Image Processing by Gonzalez &w oods pg23-121				
g	3W£eb	S		Image Coding and Compression:- Image Coding Fundamentals,Image Compression Model, fundamentals redundancy: coding, interpixel, psychovisual,fidelity criteria,				3/2/2020 to 17/2/2020		
9	1M14feb		Sessional I							

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book - Chapter no ,Pag e no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
10	17-11Feb	4	IV	B8SC compression methods Error Free Compression - variable length, bit plane, LZW arithmetic Lossless Predictive, Lossy Compression- Lossy Predictive. Fundamentals of JPEG, MPEG, fractals.		Digital 1mage Processing by Gonzalez & woods pgS47-626		3/2/20 To 14/2/2020		
11	24 Feb-Z9 Feb	6		Basic compression methods Error Free Compression - variable length, bit plane, LZW arithmetic Loss\ess Predict\ve,'Lossy Compression- Lossy Predictive. Fundamentals of JPEG, MPEG, fractals.						
12	2-7Mar	6	V	Image Analysis- Segmentation: Point, line, Hough Transform, Edge detection, Boundary detection and Thersho1ding, Region Based segmentation.		Digital Image Processing by GOnzale2 & wOOds pg649-698	14/3/2020			
13	9-14Mat	4		Representatio& Description :Boundary representation by chain codes, signature & skeleton Boundarydescriptors, shape number, FOUrier descriptors ,Basics of Regional descriptor,boundary representation by chain codes and B splices, Hough Transform,						
14	16-21 Mar	6		MorphologicalImage ProEessing: Dilation, Erosion, Opening, Closing on Binay Images						

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No.	Week	Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book/ Chapter no, page	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
15	23-28 Mar	4	VI	!M^@6 YeS1Orat}On and reconstruction\- tWOge Oegradation Mode, Noise tVtodeis, and Restoration jn Presence c Noise in Spatial DOmüin.		Digital)mage Processing by Gonzalez & woods pg8B3-926				
16	30 Mar-4 Apri	2		Inverse Filtering,wiener filtering, Introduction to Image reconstruction tram projections applications of image Processing.						

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CCOEW/ETC / 19-Z020 Date: 1G / 01 / 2020

LESSON & TEACHING PLAN for COMPUTER COMMUNICATION NEJWORK

Department of EleEtronics and Tele Communication

Faculty Name: Abhishek Baseshankar Year : 2019-2020 Sem: VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chaptes no. Page no,edition. No	ICT tOOl5	Cömp\etion oate	Assignrnent/Y utorial Oate	HOo's sign
1	16-21Det	8	I	Uses of computer Network, Network Software-design tssues for layers Service primitives and relationship of services to Protocols, Reference models-OSI&TCP//P		Andrew Teneobaum, "Computer Networks", 4th Edition, Pearson Education	https://www.Youtube.ca /watch?v=LX_b2M3IzN8			
2	Z3-28 Dec	6								
3	30 Dec-4 Jan	4		network architectures introduction, Example of networks-X.25, Frame Relay & ATM, Protocols and Standards						
4	6-11 Jan	6	II	Physical layer-Datarate limits, Transmissionmedia-guided and Unguided, Switching systems-Circuit switching	Visit to BSNL	Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education	https:/fwww.Youtube.Co m/watch?v=_R4ktHXmAF			
5	13-18Jan	5	II	Datagram Switching &Visual circ 't switching, Structure of *circUit* and	Visitto BSNL	Andrew Tenenbaum,	https'//www.youtube.co m/W?ttchîV=GROsbN1mb0			
6	20-2S Jan									

Anannya 2020

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WEEK No.	Week	No. Of Lect.	Unh No.	Exart TopiC Name & Subto{slc	Activity/ . eachlng Aid	Refrence Book - Chaptar no. PaBe no,edItion. No	ICT tools	Completion Date	Assignment/ utoriai Date	HOD's sign
7	27Jan-1 Feb	6	{{,]{{	SONET basics, rejection of IEEE std 802.11,a,b,c,g, Data Ink layer: Framing, 'low A Error control Protocols, HDLC, 'PP		Andrew Tenenbaum, "C omputer Networks", 4th Edition, Pearson Education		3Feb		
8	3-8 Feb	5	II}	Multiple access techniques,random access, controlled access & Channelization, Ethernet types-bridged, Switched, Full duplex, Fast & gigabit Ethernet, Introduction to Oata link layer in 802.11 LAN		Andrew Tenenbaum, " Computer Networks", 4th Cdition, Pearson Education		3Feb	05/02 - 20 Assign 01	
9	10-15 Feb				Sessional I					
10	17-21 Web	6	00	Connecting devices like passive hubs, repeaters, Active hubs, Bridges, Two-layer Switches, Routers, three layer switches, Gateway etc., Backbone networks, Virtual LANs, Simple Router architecture, Sliding window protocol	Visit to CCN Lab	Andrew Tenenbaum,' "Computer Networks",4th Edition, Pearson Education				
II	24 Feb-29 Feb			IPv4 address, IPv6 address, Address mapping-ARP, RARP & DHCP, IPv4 datagram detail format, IPV6 datagram detail format, Industrial Visit				3Feb		
12	2-7 Mar	6	)	ICMP, IGMP, Network layer issues like DeliverY, forwarding, intra-domain and Inter-domain routing, Routing algorithms like Shortest path routing, Flooding	Simulation on NS2	Andrew Tenenbaum, ..c pqtgyp Networks", 4th Edition, Pearson				

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								utorial Date	HOD's sign
	9-14 Mar	4		Distance Vector Routing, Link State Routing, Path vector routing etc., Addressing types-Physical, Logical & port address Process to process delivery, Connection oriented & Connectionless Transport, UDP	Simulation on				
14			IV,V	of Service, Application layer protocols a applications like Ping, FTP, telnet, ht (www), SMTP, SNMP, Trace route	Demonstration	Tenenbaum, Ed?don. Pearson Education			
	23-28 Mar	4	V	HTTP, BOOTP, DNS, NFS, RPC, X-server, E-mail. Introduction to streaming Audio/Video,P2P file sharing, Introduction to socket programming	Demonstration on Desktop PC	Tenenbaum, "Computer Networks", 4th Edition. Pearson Educaticm			
	30 Mar-04		VI	Introduction to Cryptography, Secret key algorithm, public key algorithm, Hash Functions, basic ITU-T Recommendation - X.805 Security Architecture, Basics of Security Requirements/Services/Dimensions, Basics of Security attacks, Basics of Security mechanisms / solutions	Demonstration	William Stallings, "computer Networks and Cryptography", 3rd edition, Pearson Education			
17	30 Mar - 31 Mar	2		UTP Cabling for PC to PC gg,m(ritJni tion, hietwork I ifr, _rrrarark monicoring. ProtocolAnalyzer, ductwork Simulaéon, internet a —→ through Dialup/OSL/LepsedIine/Mobile					

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W/ETC / 18-19

Date: 7 / 12 / 20t8

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

my Name: Prof. Saurabh S. Nimkar | Subject: SATELLITE COMMUNICATION | Year: 201B-19 | Sem:- VIII

DENo.	Week	No. Of Lect.	Un1t No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Oate	Assignment/T utorlal Dolle	HOD's sign
	24-30 Dec	6		Introduction to Satellite Communication& Orbital Design	Shows the conventional' tubes and Satellite tubes	" " "		30-12-19	23-12-19	
	1-5 Jan	S	)	Two Cavity and multi cavity Klystrons ,Structure and working with numericals	explain with existing klystron generator in lab	Trimothy Pratt "Satellite Communication" Wiley Second Edition Unit Number 1,2,3,4,6,7	PPT Mooss on Satellite	4-1-20	2-1-20	
!	7-11 Jan	S	I	Reflex Klysoons, slow-wave stricture: TWT with Numericals and Derivation	Power measurement using Reflex Klysnon with variation by practically		Communicati Slides on Advanced Launching	10-1-20	8-1-20	
					Anannya 2018-19		Vehicl			
	21-25 Jan	S	I	BWO(Backword wave oscil1ator),Magne1ron oscillator and its types		Satellite and Radar Engg. By M.Kulkarni(Page no. 339-368)		24-1-20	22-1-20	

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No•	Week"	No, Of Lect.	tznft No.	*Exa'ct* Yoplc Name & subtoplc e	Acttqtty/ Teacfttng A)g	Refrertcc Book apter no. Page no,edttfon. No	ICT tools	6ompletfon Date	Assignment/T utorlaf aate	HOD's sign
	4-8 March	5	III	Solid Stalc Satcllttc Det iccs.Parametric amplifiers. PU drones. Tmnsfcrrcd Electron dc› ices: Gunn diode.AvalttI1ClIC diodc. Transit Time dcx-ices]ike IMPATT, TRAPATT diodes.	Yideo Lectures	S.Y. Liao, "Satellite Devices and Circuits", Prentice Hall India,Satellite and Padar Engg, By M.KuIkafni(Page no. 369-436)				
	I 1-16 ftlarch	6	V	lntroduction of Radar Fundan1 entals:Basic principis and fund mentals of Radar , block diagram of basic radar, classification, radar petformance factors	PPT	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications and Satellite and Radar Engg. By M.Kulkarni(Page no. 513-545)				
	18-22 March	4	V	radar range equation, factors influencing maximum range,Numericals based on Radar range Equation ,effects of noise, Pulsed radar systems.	PPT					
	? 3D **March**	6	VI	tennas and scanning, display methods, posing target indication, radg COfIS, CA Doppler radar,FM CW phased array , *appEcaâoos* of radar	PPT	Skolnik, "Principles of Radar Engineering", McGraw Hil] Publications and Satellite andRadar Engg. By M.KuIkarni(Page no. 54S-570)				

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	suivlty/ v...».,‹Id	Refera Book· no,edtIon. No	pier ne. Page	ICT tools	Completion Date	Assignment/T utorial Date	HOOs sign
		5	t	Saiclliie nicasøretrtcnt:]ntroduction IO Satellite McnsUrciilclits, definition and røc.asurcnaent methods of frequency.pnis'cr, attenuation VSWR, impedance, insertion loss, dielectric constant Q of a cavity resonator, phase shift.		S.Y. Liao, "Satellite Devices and Circuits", Prentice Hall India and Satellite and Radar Engg. By M.KuIkarni(Page no. 261-296)					
	2-7 April						Sessional II				

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CCOEW/ETC / 19-20

Uate: 0 / 12 / 2019

LESSON & TEACHING PLAN

tUVMtNS tOLLEGE o£ENGtNEERlNGFORVUOvEN, NAGPUR

Faculty Name: Prof. Jaya. M.Gadge

Subject: Microwave and **RADAR** Engineering

Year: 2018-19 t sen-- VIy t

WEEK No.	Week	Le		**Exact** Topic **Name & Subtopic**	**Activity/** Teachlng Aid	**Refrence Book - Chapter no.** Page no,editIon. No	**ICT tools**	**Completion Date**	**Assignment/T utorial Date**	**HOD's sign**
1	**16-21** Dec	S	I	Introduction of Microwave signals ,range and Tubes,High frequency limitations of conventional tubes	Shows the conventional tubes and microwave tubes	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India,Microwave and Radar Engg. By M.Kulkarni(Page no. 297 - 338)		16/12/19		
2	23-28Dec	6	f	Two Cavity and multi ca··ity Klystrons ,Structure and working with numericals	explain with existing klystron generator in pie			18/12 T 18/12 26/12		
2	30 Dec -04 Jan	4	§	Reflex Klystrons, slow-wave structure: TWT with NumeriGa1s and Derivation	Power measurement using Reflex Klystron with variation by practically			26/12 Tutorial 1 (19/12) 04/1/20		
3	**06-11 Jan**	G	I	BWO(Backword wave oscillator),Magnetron oscillatorand its gapes		Microwave and Radar Engg. By M.KulkarnilPage no. 339- 368)		03/1/20		

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	13-18 Jan	5	II	Intmduciion of Miemwavc Componcrits,Introduction to rectangular wavcguide & wa cguidc excitation		S.Y. Llao,"Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 199-260)	https://www.youtube.com/watch?v=qIJGISRzGMU	09/1/20 ↓ 16/01/20		
4	20-25 Jan	Annanya								
5	27 Jan - 01 Feb	6	II	Principles of S-parameters, Sparameters for multi-ports (2-port, 3-port, 4-port etc.)	PPT	S.Y. Liao, "Microwave Devices and Circuits , Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page	https:// slideserve .com/Ga bel/ cha tam four-ang Ie-moduiation	14/1/20 ↓ 15/1/20		
	03-48 Feb	5		Reflection & incident components		S.Y. Liao.		↓ 27/01/20		
	10-14 Feb	5	5ess1onat-E							
	Feb	5	Industry Visit							

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No.	Week	Two. or Leet•	pinit o•	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Paao n•,ed1tlon. no	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
6	20-22 Feb	3	II	properties of S-matrix, (T', 1T, T*-II planes), Directional Couplers, matched icnninalioiis	Tak\ng Read timeApplications		http://thesij.com/papers/CNCE-2013/Septem ber-October/CNCE-0104530101.pdf,https://www.youtube.com/watch?v=jqJpbPseX2c	24/01/20		
	24-29 Fch	6	II	Microwave atlcnualors,Slot1ed line, Fcrrite devices, Circulatots, lsolators, gyrators.	ICT Tools tP1'T)	S.Y. Liao, "Microwave Devices and Circuits", Prentice Ha\I India and Microwave and Radar Engg. By M.ku\karni(Page no. 241-260)		04/2/20 06/2/20	Assignment -01 06/2/2020	
9	2-7March	6	III	Solid State Microwave Devices,ParametTic amplifiers, PM diodes, Transferred EleGtron devices: Gunn diode,Avalanche diode, Transit Time devices like IMPATT, TRAPATT diodes.	Video Lectures	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hal\ lndia,Microwave and Radar Engg. By M.Ku\karni{Page no. 369-436)		12/3/20 13/3/20.		
10	9-14 Marxh	4	V	Introduction of Radar Fundamentals:Basic principlés and fundamentalsofRadar , block diagram of basic radar, classification, radar performance factors	PPT	Skolnik,"PTintiples of RadarEngineering", Mccra= Hitt Publications and Microwave and Radar		06/2/20 15/2/20.		

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No.	Week		t'	'*°ct Yopl" Nnmc4 St'htopc	lvi<v/ eacy,ing Äi<i	Refrence Book - Chapter no. Page no,edltlon.No	ICT tools	Completion Date	Assignment/T ‹torlal Date	HOD's sign
11	I ti-21 March	6	V	radar range equation, factors influencing maximum range,Numericals based on Radar range Equation	PPT	Engg. By v.K Ikarrti(Page no. 513-s45)	06/12/2020 07/12/2020	15/12/20		
12	z3-zs h'lo rch	4	VI	itnlcnnas and scanning, displayiiiethods, moving target indieutioli, radar bCaCOnS, CW Doppler radar.FH MW phased array radars, applications of radar	PPT	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications and Microwave and Radar Engg. By M.KuIkarni(Page no. 545-570)		26/12/20 28/12/20		
f3	30Mar-4 Apr			Microwave measurement: Introduction to microwave measurements, definition and measurementmethods of frequenoy,power, attenuation VSWR, impedance, insertion loss, dielectric constant, Q ofa cavity resonator, phase shift.		S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.KuIkarnitPage no. 261-296)		02/13/20 05/13/20 6/13/20 11/13/20	02 12/13/20	
15	4-9 Apr	5		Sessional II						

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Academic year

2018-19

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CCOEW/ETC / 18-19

Date: 18 / 6 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR (Dept. of ETC)

Faculty Name: Prof. Pallavi P. Ganorkar						Subject: MPMC		Academic Year (2018-19)		Sem: V
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18-23 June	5	I	Difference between 8085 & 8086, Register Organisation,Architecture of 8086,Signal Description of 8086,Memory organisation.	PPT	Advance Microprocessor ,Burchandi (Chapter No. 1,2)	https://www.slideshare.net/j4jiet/difference-bw-8085-8086	30/6/18	AVJ	AVJ
							https://www.slideshare.net/poojithchowdhary/8086-micro-processor		AVJ	AVJ
2	25-30 june	6		General Bus Operation, Minimum mode of 8086,Maximum mode of 8086,Architecture & description of 8088,Timing Diagram of 8088.	Video lectures/ PDF		https://www.youtube.com/watch?v=foYaltN4M00	5/7/18	AVJ	AVJ
							http://faculty.uml.edu/yluo/Teaching/MicroprocessorII/L04.8088MemoryInterface.pdf		AVJ	AVJ

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	2-7 July	6		Addressing modes,Instruction set,Programming examples,Assembler Directives.	Asignment/ Tutorial			4/7/18		
4	9-14 July	5		More programming examples of 8086.	Tutorial			13/7/18	13/7/18	
5	16-21 July	6	II	Introduction to 8255 ,ADC,DAC,KEYBOARD ,LED &STEPPER MOTOR,Introduction to 8279.	PPT/ PDF	Advance Microprocessor ,Burchandi (Chapter No. 3)	https://www.slideshare.net/jineshkj/8255-37761336	13/8/18	13/8/18	
							https://www.scribd.com/doc/22683441/1-Interfacing-Stepper-Motor-to-8086-Using-8255			
6	23-28 July	4		Different modes used in IC 8279Introduction to 8251 USART,Modes and Programming Examples of 8251.	Video lecture		https://www.youtube.com/watch?v=nAsnr_uG2ml	28/8/18		
7	30 July-4 August	6	V	Introduction to 8051 architecture, Pin diagram of 8051,Addressing modes,Internal & external memory,Flags,SFR	PPT	The 8051 Microcontroller and embedded systems- Mazidi	https://www.slideshare.net/chappidi_saritha/addressing-modes-of-8051	11/9/18	6/9/18	
8	6-11 August	5		Sessional I						
9	13-18 August	5	V	Counter and Timers,Serial communication,Interrupts,8051 instruction set	PPT	The 8051 Microcontroller and embedded systems- Mazidi	https://www.slideshare.net/Andriblovers/8051-instruction-set-12522439	21/9/18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	20-25 August	5	VI	Interfacing with keyboard and programming,Interfacing with LED matrix and 7 segment,Segment and programming	Video lecture	The 8051 Microcontroller and embedded systems- Mazidi	https://nptel.ac.in/courses/108105102/23	4/10/18 5/10/18		AVJ
11	27 August-1 Sept	6		Interfacing of stepper motor,Generating Time,Memory mapping	Video lecture		https://nptel.ac.in/courses/108105102/29	6/10/18 9/10/18		AVJ
12	3-8 Sept	6	IV	8087 Numeric co-processor,Block digram 8087,Pin disciption of 8087	PPT	Advance Microprocessor ,Burchandi	www.eazynotes.com/notes/microprocessor/Slides/math-co-processor-8087.pps	10/10/18 11/10/18		AVJ
13	10-15 Sept	5		Interfacing, Programming Examples of 8087	Video lecture/Tutorial		https://www.youtube.com/watch?v=mQ2DvnEJPMM	12/10/18		AVJ
14	17-21 Sept	5		8237 Architecture and interfacing, Introduction to Pentium	Video lecture/Assignment		https://nptel.ac.in/courses/106106092/26	Assignment 12/10/18		AVJ
15				Sessional II						

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CCOEW/Dept of ETC/2018-19

Date: 16/06/2018

Lab Practicals Plan

F03/2018

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Pallavi Tanksale	Subject: MPMC	for	Department: ETC	No of Batches: 2

		Batch # 1				Batch # 2					
Pi	Name of experiment	Planned Date	Perform Date	No. Journals received	No. of Viva done	Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark	Principal
1	Study of 8086 microprocessor.	25/6/2018	27/6/18	—	—	26/6/2018	27/6/18	—	—	AUT	
2	Write and execute 8086 assembly Language Programs to add two 32 bit number.	2/7/2018	9/7/18	11	11	3/7/2018	10/7/18	09	09	AUT	
3	Write and execute 8086 assembly Language Programs to multiply two 16 bit numbers.	9/7/2018	16/7/18	11	11	10/7/2018	17/7/18	09	09	AUT	
4	Write and execute 8086 assembly Language Programs to divide 16 bit number by 8 bit number.	16/7/2018	30/7/18	10	10	17/7/2018	24/7/18	10	10	AUT	

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5	Write and execute 8086 assembly Language Programs to search a look-up table for a byte (make use of XLAT)	30/7/2018	13/8/18	09	09	24/7/2018	31/7/18	07	07	AVJ	
6	Write and execute 8086 assembly Language Programs to arrange the data bytes in ascending/descending order.	13/8/2018	27/8/18	10	10	31/7/2018	21/8/18	07	07	AVJ	
7	Write and execute 8086 assembly Language Programs to ~~compare two strings (use String instructions)~~ find no. of even & odd no. of bytes from given string	20/8/2018	20/8/18	12	12	14/8/2018	14/8/18	10	10	AVJ	
8	Interface 8255 with 8086 microprocessor and write a program to glow the alternate LED's.	27/8/2018	3/9/18	11	11	21/8/2018	28/8/18	04	04	AVJ	

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Date: 16/06/2018

9	Write and execute 8051 assembly language program to multiply two 8 bit numbers and store the result of operation at memory location 9000H.	3/9/2018	17/9/18	09	09	28/8/2018	11/9/18	08	08	AWJ	
10	Write and execute 8051 assembly language program to find smallest byte in string of bytes.	10/9/2018	24/9/18	10	10	4/9/2018	18/9/18	10	10	AWJ	
11	Write 8051 program to serially transmit the data (UART) to the other controller.Used KEIL software to compile the code.	17/9/2018	9/10/18	06	06	11/9/2018	9/10/18	06	06	AWJ	

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CCOEW/ETC / 18-19

Date: 12 / 06 / 2018

LESSON & TEACHING PLAN

Department of Electronics and Telecommunication Engineering

Faculty Name: Prof. Atul S. Jambhulkar		Subject: Analog Circuits & Design		SEM: ODD (2018-19)	Sem:- V (ETC)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18/06/18 - 23/06/18	5	I	Block diagram of OP-Amp (Basic Building Blocks), Basic differential Amplifier using transistor and its operation	Forming the group of four students an asign them the name of four blocks of differntial amp.	Operational Amplifier and Applications: R. Gayakwad Page No. 1- 61	NPTEL Video and PPT	23/6/18		AUT
2	25/06/18 - 30/06/18	6	I	Basic differential Amplifier using transistor and its operation	Make any one stage of OP-Amp on bread board using transistor	Operational Amplifier and Applications: R. Gayakwad Page No. 1- 61	NPTEL Video and PPT	3/7/18		AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	02/07/18 - 07/07/18	6	I	OP-Amp parameters, characteristic and Definition Ideal OP-Amp, Equivalent circuit, Voltage Transfer curve Inv and Ninv configurations and design, concepts of virtual short and ground.	Show them the output of all circuits on Multisim	Operational Amplifier and Applications: R. Gayakwad Page No. 90-122	NPTEL Video and PPT	19/7/18	Assignment No. 01	AUT
4	09/07/18 - 14/07/18	5	II	Voltage follower, Summing amplifier, scaling and averaging amplifier, Instrumentation amp and applications,Integrator and differentiators, Peak detector	Show them the output of all circuits on Multisim/ Bread board	Operational Amplifier and Applications: R. Gayakwad Page No. 90-122	NPTEL Video and PPT	31/7/18		AUT
5	16/07/18 - 21/07/18	6	II	Log and antilog amplifiers using OP-Amp & Transistor and analog multipliers.	Show them the output of all circuits on Multisim/ Bread board	Operational Amplifier and Applications: R. Gayakwad Page No.236-286	NPTEL Video and PPT	2/8/18		AUT
6	23/07/18 - 28/07/18	4	III	Comparators, Schmitt trigger, Comparator IC such as LM 339,	Show them the output of all circuits on Multisim/ Bread	Operational Amplifier and Applications: R. Gayakwad Page No236-286	NPTEL Video and PPT	14/8/18	Assignment No. 02	AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	30/07/18 - 04/08/18	6	III	Clipper and Clamper, Precision Rectifier, PLL Multivibrators: Bistable, Monostable	Show them the output of all circuits on Multisim/	Operational Amplifier and Applications: R. Gayakwad Page No 1- 286	NPTEL Video and PPT	30/8/18		AUT
8	06/08/18 - 11/08/18			**Sessional I**						
9	13/08/18 - 18/08/18	5	III	Astable multivibrator circuits using IC 555 Sample/Hold circuits, D/A (R/R) & A/D conversion circuits (SAR),	Solving numerical based on integrator and differentiators.	Operational Amplifier and Applications: R. Gayakwad Page No 1- 286	NPTEL Video and PPT	4/9/18		AUT
10	20/08/18 - 25/08/18	4	VI	Advantages of active filters, Design of Butterworth Active Filter, Design of Active filter of LPF, HPF, BPF	Show them the output of all circuits on Multisim/ Bread board	Operational Amplifier and Applications: R. Gayakwad page No 289-340	NPTEL Video and PPT	7/9/18		AUT
11	27/08/18 - 01/09/18	6	VI	1st order, 2nd and higher order (up to 6th order) Butterworth filter.Design of Relay driver circuit,	Show them the output of all circuits on Multisim/ Bread board	Operational Amplifier and Applications: R. Gayakwad page No 289-341	NPTEL Video and PPT	14/9/18		AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	03/09/18 - 08/09/18	5	V	Design of stepper motor, Dc servo motor control circuit OPAMP based Wein Bridge and Phase Shift oscillators,Transistorized Hartley, Colpitts & Crystal oscillators	Show them the output of all circuits on Multisim/ Bread board	Monograph on Electronic circuit Design: Goyal & Khetan.	NPTEL Video and PPT	22/9/18		AVJ
13	10/09/18 - 15/09/18	5	V	Evaluation of figure of merit for all above oscillator circuits. Design of function generators	solving numericals on different circuits	Monograph on Electronic circuit Design: Goyal & Khetan.	NPTEL Video and PPT	5/10/18		AVJ
14	17/09/18 - 22/09/18	5	IV	Unregulated D.C. power supply system with rectifiers and filtersDesign of series voltage, regulators, Design of regulators using IC 78×× and 79××, protection circuits for regulators, Design of SMPS	solving numericals on different circuits	Monograph on Electronic circuit Design: Goyal & Khetan.	NPTEL Video and PPT	11/10/18		AVJ
15	25/09/18 - 29/09/18			**Sessional II**						

12/6/18

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Date: 8/ 6/ 2018

LESSON & TEACHING PLAN for MEMS and SoC

Department of Electronics and Telecommunication

Faculty Name: Prof. Pallavi Ganorkar | Year : 2018-19 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18-23 June	5	I	Embedded system workshop						AVJ
2	25-30 June	6		Benefits of Miniaturization, Types of MEMS: Optical MEMS, Bio-MEMS,	PPT	"MEMs & Microsystem Design and Manufacture", Tai-Ran Hsu	https://compliantmechanisms.byu.edu/content/introduction-microelectromechanical-systems-mems	30/6/18		AVJ
3	2-7 July	6		RF- MEMS,Microfludics, Success Stories, Pressure sensor,	PPT	" Micro and Smart Systems", Ananthasuresh, G. K., Vinoy, K. J., Gopalakrishnan, S., Bhat, K. N., and Aatre V.K	https://www.elveflow.com/microfluidic-tutorials/microfluidic-reviews-and-tutorials/microfluidics-and-microfluidic-device-a-review/	10/7/18	5/7/18	AVJ
4	9-14 July	5	I,II	Accelerometer, Micro-mirror TV Projector, Integrated Circuit Processes,	PPT/ Duster example	" Micro and Smart Systems", Ananthasuresh, G. K., Vinoy, K. J., Gopalakrishnan, S., Bhat, K. N., and Aatre V.K	https://compliantmechanisms.byu.edu/content/introduction-microelectromechanical-systems-mems	12/7/18		AVJ

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	16-21 July	6	II	Bulk Micromachining. Surface LIGA process . wet & dry etching processes	PPT	"MEMs & Microsystem Design and Manufacture". Tai-Ran Hsu	https://www.slideshare.net/aman1312/liga-process-70140147	18/7/18		AVJ
6	23-28 July	4		Device fabrication using Surface Micromachining example. Microcantilever fabrication	PDF	"MEMs & Microsystem Design and Manufacture". Tai-Ran Hsu	http://shodhganga.inflibnet.ac.in/bitstream/10603/159931/11/11_chapter%205.pdf	20/7/18		AVJ
7	30 july-4 Aug	6	III	Basic concepts of cellular biology. chemical sensors, molecule based sensors. cell based biosensors	PPT	" Micro and Smart Systems", Ananthasuresh. G. K., Vinoy, K. J., Gopalakrishnan. S., Bhat, K. N., and Aatre V.K	https://www.slideshare.net/FAIZAN0806/mems-sensor	25/7/18		AVJ
8	6-11 August	5		**Sessional I**						
9	13-18 August	5	III	Chemical actuators, biological transducers and electrophoresis, optical transducers	PPT	" Micro and Smart Systems", Ananthasuresh, G. K., Vinoy, K. J., Gopalakrishnan. S., Bhat, K. N., and Aatre V.K	https://www.slideshare.net/navinec1/micro-electromechanical-system-mems	2/8/18		AVJ
10	20-25 August	5		Thermal transducers, magnetic transducers, RF transducers	PDF		www.ieec.uned.es/.../More%20on%20Transducers%20Sensors%20and%20Actuators....	17/8/18	17/8/18	AVJ
11	27 Aug-1 Sep	6	IV	Capacitors, inductors, switches, antennans	PDF/PPT		scme-nm.org/files/MNT_2011_MEMS_components.pdf	28/8/18		AVJ

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	3-8 Sep	6	IV, V	Other RF MEMS components in communications, space and defense applications, overview of Mechanical packaging of MEMS	PDF/PPT	RF MEMS and their applications: Vijay Varadan, K.J.Vinoy, K.A. Jose	scme-nm.org/files/MNT_2011_MEMS_components.pdf	31/8/18		AVJ
13	10-15 Sep	5	V,VI	Types of packaging in MEMS, Levels of packaging, case studies, Design of SoC	PPT		https://www.slideshare.net/Prasanna3804/mems-60989956	18/9/18	14/9/18	AVJ
14	17-21 Sep	5	VI	Microsystem technology and applications, core architecture for digital media and associated compilation techniques	PPT		https://www.researchgate.net/.../259404853_Microsystems_technology_MST_and_ME...	Assignment 18/9/18		AVJ
15				**Sessional II**						

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Date: 13 / 06 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Jaya. M.Gadge						Subject: VLSI Signal Processing		Year : 2018-19		Sem:- VII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	HOD's sign
1	18-25June	6		Bridge Course						
2	26-30June	5	I	Pipelining and Parallel Processing:Introduction of Pipelining,Types of Graph used in DSP system,DFG,SFG,DG &Data Broadcast structure,Pipelining of FIR Digital Filter,Numerical based on Piplining	video lecture,Eplain by concept of cascading for pipelining and repetation of circuits in parallel processing	VLSI Signal processing & Implementation by Keshab Parhi,chapter no.3,page no. 63-88	https://www.youtube.com/watch?v=prPhbwMd2FM	28/6/18 & 29/6/18		AKT
3	2-7July	6	I	Fine grain pipelining,Introduction of Parallel Processing,Designing a parallel FIR Filter,Numerical based on Parallel Processing	Video lectures		https://www.youtube.com/watch?v=al_jswJpih18	30/6 ↓ 10/7/18		AKT

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Lecture No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book - Chapter no. Page no.edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	HOD's sign
4	9-14 July	5	I	Pipelining: processing for low power,parallel processing for low power,Combined processing for low power,Numerical(T)	Video lectures		https://www.youtube.com/watch?v=7OOCcwE2Z	11/7/20 12/7/20		
5	16-21 July	6	II	Retiming,Introduction,Definition and properties,solving systems of inequalities(T),retiming techniques.	PPT	VLSI Signal processing & implementation by Keshab Parhi,chapter - 4,page no. 91-118		13/7 14/7 15/7		
6	23-28 July	4	II	retiming techniques,cutset retiming & Pipelining,Retiming for clock minimization,Retiming for Register minimization	Video lectures		https://www.youtube.com/watch?v=_0eNQGbLUBQ	19/7 20/7		
7	30 July-4 Aug	6	III	Unfolding-Introduction,algorithms for unfolding,Properties of unfolding,Critical path	Video lectures	VLSI Signal processing & implementation by Keshab Parhi chapter no.5,page no.119-147	https://www.youtube.com/watch?v=aNkbmWBhcU	27/7 28/7		
9	6-11Aug	5		Sessional I						
8	13-18 Aug	5	III	unfolding and retiming,Applications of Unfolding,Numericals(T)	Solving problems in group			3/8/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	HOD's sign
10	20-25 Aug	4	IV	Introduction,Folding Transformation,Registration minimization Technique	each and individual student solve the steps of numericals in board	VLSI by Keshab parhi,chapter no.6,page no.149 -186		12/9		AVJ
11	27Aug - 1Sep	6	IV	Registration minimization in folded Architecture,Folding in Multirate systems,Examples(T)	Problem solving in groups			18/9 5/10	Assignment 3 22/9/18	AVJ
12	3-8 Sep	5	V	Fast Convolution:Introduction,Cook- Toom algorithm,Numericals (T)	ICT TOOL (PDF File/PPT)	VLSI Signal processing & Implementation by Keshab Parhi chp.8,page no.237-243	http://people.ece.umn.edu/users/parhi/SLIDES/chap8.pdf	6/10		AVJ
13	10-15 Sep	5	V	Modified Cook-Toom algorithm,Winogard algorithm			http://people.ece.umn.edu/users/parhi/SLIDES/chap8.pdf	(6) 10/10		AVJ
14	17-22 Sep	5	VI	Iterated convolution,Cyclic Convolution Design of Fast Convolution Algorithm by Inspection,Numericals (T)	ICT TOOL (PDF File/PPT)	VLSI Signal processing & Implementation by Keshab Parhi ,chp.8 ,page no.251-253	http://people.ece.umn.edu/users/parhi/SLIDES/chap8.pdf	15/10		AVJ
15	25-29 Sep	5		Sessional II						

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Jaya. M.Gadge						Subject: Communication Electronics		Year : 2018-19		Sem:- V
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	HOD's sign
1	18-25June									
2	26-30June	4	I	Baseband and carrier communication,Induction of amplitude modulation,Equation of Amplitude modulation	Explain by taking example of Bus and pessangers and PPT	Electronics communication by Kennedy & Davis ,Chapter no.3.Pg.no.-35-42	https://www.slideshare.net/priyankamathur56829/modulation-42387919	26/6 ↓ 28/6		
2	2-7July	6	I	Generation of AM(DSBFC) and its spectrum,Modulation index,power relations applied to sinusoidal signals	Explain with the help of sideband information	Electronics communication by Kennedy & Davis ,Chapter no.4.Pg.no.-43-50		29/6 ↓ 1/7		
3	9-14 July	5	I	DSB-SC multiplier modulator,Non-linear generation,switching modulator,Ring modulator and its spectrum	By examples of applications	Electronics communication by Kennedy & Davis ,Chapter no.4.Pg.no.-56-63	http://www.uta.edu/faculty/krrao/dip/Courses/EE4330/comparison%20of%20modulation%20methods.pdf	1/7 ↓ 7/7		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	HOD's sign
4	16-21 July	6	I	SSBSC,ISB & VSB, their generation methods & Comparision,AM Broadcast technical standards	Assignment, Video lectures	Electronics communication by Kennedy & Davis ,Chapter no.4.Pg.no.-64-73	https://www.youtube.com/watch?v=qUGI8RzGMU	18/7 ↓ 2/7		AUT
5	23-28 July	4	II	Concept of Angle modulation,Types of Angle modulation,frequency spectrum	PPT	Electronics communication by Kennedy & Davis ,Chapter no.5.Pg.no.-80-89	https://www.slideserve.com/Gabriel/chapter-four-angle-modulation	2/8		AUT
6	30 July-4 Aug	6	II	Narrow band & wide band FM,Bessel's function and its mathematical anaylisisGeneration of FM(Direct & Indirect Method) ,Comparison of FM and PM	Explain Bessel functions with applications like oscillations in signals with respect to modulation index ,referring pdf ,Video lectures	Electronics communication by Kennedy & Davis ,Chapter no.5.Pg.no.-90-109	http://thesij.com/papers/CNCE/2013/September-October/CNCE-0104530101.pdf,https://www.youtube.com/watch?v=jqJpbPseX2c	↓ 30/8	Assign 30/8/18	AUT
				Sessional I						
7	6-11Aug	5								
8	13-18 Aug	5	V	Block diagram of AM & FM Receiver,Superhetrodyne Receiver,Performance characteristics:Sensitivity,Selectivity	ICT Tools (PPT)	Electronics communication by Kennedy & Davis ,Chapter no.6.Pg.no.-119-176	https://slideplayer.com/slide/6033750/	18/7 ↓ 26/7		AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	HOD's sign
9	20-25 Aug	4	V	Fidelity,Image Frequency rejection(IFRR),Pre-emphasis & De-emphasis,AM Detection: Rectifier detection,Envelope detection	Video Lectures	Electronics communication by Kennedy & Davis ,Chapter no.6.Pg.no.-119-176	https://www.youtube.com/watch?v=abxhnRYeA2s	30/7 ↓ 13/8		AUT
10	27Aug - 1Sep	6	V	Demodulation of DSBSC: Synchronous detection ,Demodulation of SSBSC: FM detection using PLL and Foster Selly detection method	PPT	Electronics communication by Kennedy & Davis ,Chapter no.6.Pg.no.-119-176	https://slideplayer.com/slide/8723181	14/8 ↓ 17/8		AUT
11	3-8 Sep	5	III	Bandlimited and time limited signals,Narrowband signals and system,Sampling theorem in time domain,Nyquist criteria ,Types of sampling ,Aliasing and Aperture effect	PPT	Electronics communication by Kennedy & Davis ,Chapter no.13.Pg.no.-485-499	https://www.slideshare.net/heringalafunkyboy/pulse-modulation-24348570	31/8 ↓ 4/9		AUT
12	10-15 Sep	5	III	Pulse Analog Modulation: PAM,PWM,PPM,Broadband Communication Links and Multiplexing: FDM,PCM-Generation and reconstruction ,Bandwidth requirement of PCM,Delta Modulation & Adaptive DM	PPT	Electronics communication by Kennedy & Davis ,Chapter no.13.Pg.no.-485-499		5/9 ↓ 11/9	Assignment -2 11/9/18	AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	HOD's sign
13	17-22 Sep	5	IV	Frequency spectrum of electromagnetic waves,Noise and their types: White Noise,Thermal Noise,Shot Noise,partition Noise,flicker noise,burst noise,avelanche noise,SNR of tandem connection ,Numericals based on S/N ratio and Noise figure ,Noise temperature,Friss formula for Noise figure,Noise Bandwidth,noise figure and calculation of Noise Figure ,S/N ratio	By giving examples of different field in which noise is produced like industries,component ,trees,sunrays etc.	Electronics communication by Kennedy & Davis ,Chapter no.2.Pg.no.-15-30		12/9 ↓ 18/9		AMJ
14	25-29 Sep	5	VI	Broadband Communication System:Multiplexing: FDM,Time Division Multiplexing,Code Division Multiplexing,Short and medium haul system: Coaxial cables,Fiber optic links,Microwave links,Tropospheric Scatter links,Long Haul Systems: Submarine cables	PPT	Electronics communication by Kennedy & Davis ,Chapter no.15.Pg.no.-563-595	https://en.wikipedia.org/wiki/Telecommunication	19/9 ↓ 4/10	Assignment 3 21/9/18	AMJ
15				Sessional II						

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LESSON & TEACHING PLAN

Department of Electronics and Telecommunication Engineering

Faculty Name: Prof. Atul S. Jambhulkar						Subject: Television & Video Engg.		SEM: ODD (2018-19)		Sem:- VII (ETC)
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18/06/18 - 23/06/18	5		Final Year Workshop						
2	25/06/18 - 30/06/18	6	I	Introduction of subject, Factors of TV systems, Composite video signal, signal transmission and channel bandwidth etc, color TV systems,	Showing them Internal stucture of color TV and monochro-me TV	Monochrome and colour Telvision by R.R.Gulathi,page no. 8 to 49	NPTEL Video and PPT	04/07/18		AUT
3	02/07/18 - 07/07/18	6	I	color fundamentals, mixing of colours, color perceptions, Chromiticity diagram	Fault finding of loudspeaker, display, panel board.	Monochrome and colour Telvision by R.R.Gulathi,page no. 8 to 49	NPTEL Video and PPT	11/07/18		AUT

Faculty in Charge

12/6/18

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	09/07/18 - 14/07/18	5	II	NTSC, PAL, SECAM systems, color TV transmitters, high level, low level transmitters	Showing them NTSC and PAL receiver in Lab	Monochrome and colour Telvision by R.R.Gulathi,page no. 54 to 106	NPTEL Video and PPT	17/07/18	Assignment No.1	AUT
5	16/07/18 - 21/07/18	6	II	colour TV receivers, remote control, antennas for transmission, TV alignment and fault finding with wobbuloscope	Show them all antennas in UHF lab along TV remote control	Monochrome and colour Telvision by R.R.Gulathi,page no. 54 to 106	NPTEL Video and PPT	20/7/18		AUT
6	23/07/18 - 28/07/18	4	III	Introduction to digital TV, principal of digital TV, Digital TV signals and parameters,Digital TV transmitters, MAC signals, advanced MAC signal transmission,	Show them the video of manufacturing of digital TV (LED TV)	Monochrome and colour Telvision by R.R.Gulathi,page no. 54 to 106	NPTEL Video and PPT	31/07/18		AUT
7	30/07/18 - 04/08/18	6	III	digital TV receivers, basic principal of digital video compression techniques,MPEG1, MPEG2, MPEG4, video compression ITU- standards, Digital TV recording techniques	How to fault finding the video and chroma section in Lab	Monochrome and colour Telvision by R.R.Gulathi,page no. 54 to 107	NPTEL Video and PPT	04/08/18		AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Sub Topic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
8	06/08/18 - 11/08/18			Sessional I						
9	13/08/18 - 18/08/18	5	IV	HDTV standards and systems, HDTV transmitter and receiver/ encoder, digital TV satellite system, video on demand	Show them the video of working of HDTV transmitter and receiver, Show them the video of how digital TV satellite system works	Monochrome and colour Telvision by R.R.Gulathi,page no. 182to 217	NPTEL Video and PPT	15/09/18		AUT
10	20/08/18 - 25/08/18	4	IV	CCTV, CATV, direct to home TV , set top box with recording facility , conditional access system ,3D system, digital broadcasting	Show them the CCTV in TV Lab	Monochrome and colour Telvision by R.R.Gulathi,page no. 182to 218	NPTEL Video and PPT	24/08/18	Assignment No. 02	AUT
11	27/08/18 - 01/09/18	6	V	IP audio and video, IPTV systems, mobile TV system video transmission in 3G , video transmission in 3G,personal video recorders,	Show them the video of IPTV systems	Monochrome and colour Telvision by R.R.Gulathi,page no. 182to 219	NPTEL Video and PPT	03/09/18		AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Sub. Topic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	03/09/18 - 08/09/18	5	V	wi-fi audio/video transmitters and recivers, video projectors, HD video projectors, video intercom systems/ video door phones, iPod (MPEG 4 video player)	Show them video of projectors, HD projectors, intercom systems	Monochrome and colour Telvision by R.R.Gulathi,page no. 182to 220	NPTEL Video and PPT	06/09/18		AVT
13	10/09/18 - 15/09/18	5	VI	Colour TV Digital cameras,camcorders, handycam, digicams,display devices, LED, LCDTFT	Show them video of cameras, camcorders, digicams, LED TV, LCD TV	Monochrome and colour Telvision by R.R.Gulathi,page no. 220 to 324	NPTEL Video and PPT	14/09/18	Assignment No. 03	AVT
14	17/09/18 - 22/09/18	5	VI	plasma, HDTV, CD/DVD player,MP3 player, blue ray DVD players, MPEG, MP3.	Show them video of HDTV, CD/DVD player, Blue ray DVD player	Monochrome and colour Telvision by R.R.Gulathi,page no. 220 to 324	NPTEL Video and PPT	19/09/18		AVT
15	25/09/18 - 29/09/18			**Sessional II**						

12/9/18

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CCOEW/ETC / 18-19 Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Amit G. Fulsunge | Subject: Advanced Digital System Design | SEM VII (2018-19) | Sem:- ODD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18/06/18 to 23/06/18	5		Final Year Workshop						
2	25/06/18 to 30/06/18	6	I	Introduction of Digital System Design,Device technologies, System representation, Levels of abstraction,	Handson on Xilinx ISE EDA tool	VHDL Modular Design and Cores and system by Zainalabedin Navabi	NPTEL Video & ppt			
3	02/07/18 to 07/07/18	6	I	Development tasks and EDA software, Development flow, Hardware description language, VHDL in development flow, Basic VHDL concepts.						

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	09/07/18 to 14/07/18	6	II	BASIC LANGUAGE CONSTRUCTS OF VHDL: Skeleton/syntax of VHDL program, elements and program format, Objects, Data type and operators,	Designing a simple digital system/ component and Simulating it on Xilinx ISE	VHDL Synthesis - J Bhasker ,& VHDL: programming by Example Douglas L.Perry	NPTEL Video & ppt			
5	16/07/18 to 21/07/18	5	II	Concurrent Signal Assignment, Combinational versus sequential circuits, Signal vs Variable,Signal assignment statements, conditional signal assignment,		VHDL by S.S.Limaye				
6	23/07/18 to 28/07/18	4	II III	Selected signal assignment, Conditional versus selected signal assignment statements.Functions, attributes, generic, generate,		VHDL by S.S.Limaye, VHDL: programming by Example Douglas L.Perry				

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Date: 12 / 6 / 2018

LESSON & TEACHING PLAN for DSPP&A

Department of Electronics and Telecommunication

Faculty Name: Prof.Sandhya vaibhav waghamare | Year : 2018-19 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1				workshop On Embedded system						
2	26-30June	5	I	Multiplier and Multiplier accumulator, Modified Bus Structures and Memory access in P-DSPs, Multiple access memory , Multi-ported memory , VLIW architecture, Pipelining		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		30 June		
3	2-7July	6	I	Special Addressing modes in P-DSPs , On chip Peripherals, Computational accuracy in DSP processor, Von Neumann and Harvard Architecture, MAC		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		7 July		

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4	9-14 July	5	II	ARCHITECTURE OF TMS320C5X		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		24/7.		
5	16-21 July	6	II	Bus Structure & memory, CPU, addressing modes, AL syntax.		M. Bhaskar, Digital Signal Processors, Architecture, Programming and		30/7		
6	23-28 July	4	III	Assembly language Instructions , Simple ALP		M. Bhaskar, Digital Signal Processors, Architecture,		31/8.	22/7.	
7	30 July-4 Aug	6	III	Pipeline structure, Operation Block Diagram of DSP starter kit , Application Programs for processing real time signals		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		218.		
8	6-11Aug	5		**MID TERM TEST**						
9	13-18 Aug	5	IV	Data Addressing modes of TMS320C54XX DSPs, Data Addressing modes of S320C54XX Processors,		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		119.		
10	20-25 Aug	4	IV	Program Control, On-chip peripheral, Interrupts ofTMS320C54XX processors,		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		5/9		

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12	27Aug - 1Sep	6	IV	Pipeline Operation of TMS320C54XX Processors , Block diagrams of internal Hardware, buses.		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		1/19	2/18	
13	3-8 Sep	5	IV&V	, internal memory organization Code Composer studio - Architecture of TMS320C6X		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		17/9	3/9.	
14	10-15 Sep	5	V	architecture of Motorola DSP563XX – Comparison of the features of DSP family processors		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		17/9.		
15	17-21 Sep	5	IV	Study of time complexity of DFT and FFT algorithm, Use of FFT for filtering long data sequence		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		Seminar 19/9.		
16	25-29 Sep	5	IV	Interpolation filter, Decimation filter , wavelet filter		B. Venkata Ramani and M. Bhaskar, Digital Signal Processors, Architecture, Programming and TMH, 2004.		Seminar 19/9.		

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: A. U. Tinguria						Subject: A&WP		SEM :odd (2018-19)		Sem:- V
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 to 23 june	7		Workshop on Solar Systems				23-Jun-18		AUT
1	24 to 29 june	5		Revision of EMF		Engineering Electromagnetics- Hayt Electromagnetic Fields and Radiation- Jordan Balman	NPTEL Videos	29-Jun		AUT
2	02 july to 07 july	6		Transmission line equations and their solution , transmission line parameters, characteristics impedance, propagation constant,attenuation constant and phase constant,		Electromagnetic Fields and Radiation- Jordan Balman		9-Jul	9-Jul	AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	09 to 14 july	6		waveform distorion , distortionless transmission lines,loading of transmission lines, reflection coefficent and VSWR, Equivalent circuits of transmission lines, transmission lines at radio frequency, open and short circuited lines,		Electromagnetic Fields and Radiation- Jordan Balman		14-Jul		AVJ
4	16 to 21 july	5		smith chart, stub matching., Tutorial		Electromagnetic Fields and Radiation- Jordan Balman	NPTEL Videos	23-Jul	16, 18 July	AVJ
5	23 to 28 july	6		Infinitesimal dipole, its radiation field, radiation resistance, radiation sphere, near field, far field		Electromagnetic Fields and Radiation- Jordan Balman		28-Jul		AVJ
6	30 july to 04 Aug	4		directivity, small dipole, finite length, Linear arrays, Array of two isotropic point sources,principle of pattern multiplication, linear arrays of n elements, broadside, End fire,	Visit to UHF Lab	Electromagnetic Fields and Radiation- Jordan Balman	NPTEL Videos, PPT	4-Aug		AVJ
7	06 to 11 Aug	6		Tutorial, half wave length dipole, linear elements near or on infinite perfect conductors, ground effects and their application,	Visit to UHF Lab	Electromagnetic Fields and Radiation- Jordan Balman	PPT	11-Aug	6-Aug	AVJ
8	13 to 18 Aug	5		**Sessional I**						
9	20 to 25 Aug	5		array factor, Antenna analysis using Dolph-Tschebyscheff, Log-periodic antenna, the composite Yagi-Uda-Corner-Log-Periodic array, Tutorials		Antenna Theory analysis and design - Costantine , Antenna by cross	PPT	27-Aug	25-Aug	AVJ

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	27 Aug to 01 Sept	4		Radiation Mechanism of Microstrip antenna, feeding methods, methods of analysis, Multiband Microstrip antenna for Mobile Communication, Circularly Polarized Patch antenna, Rectangular & circular patch,	Problems	Antenna Theory analysis and design - Costantine , Antenna by cross	PPT	1-Sep		AUT
11	03 to 08 Sept	5		Circular polarization and feed network. Tutorials, Simple reflectors, the design of a shaped Cylindrical reflector,	Problems	Antenna Theory analysis and design - Costantine , Antenna by cross	PPT	8-Sep	4-Sep	AUT
12	10 to 15 Sept	5		Radiation patterns of Reflector Antennas, Dual shaped Reflector Systems Plane reflector,	Discussion on Mobiles	Antenna Theory analysis and design - Costantine , Antenna by cross	PPT	14-Sep	14-Sep	AUT
13	17 to 22 Sept	5		Corner reflector,Parabolic Reflectors	Discussion on Radio and Tv Systems	Antenna Theory analysis and design - Costantine , Antenna by cross	PPT	23-Sep	23-Sep	AUT
14	25-29 Sept	5		**Sessional II**						
15	03 to 06 Oct	6	4	aperture antenna Reciprocity in antenna Measurements, Near-Field & Far-Field, Co-ordinate System, Sources of Error in antenna measurements, measurement ranges, measurement of different antenna Parameters, antenna ranges, radiation pattern, Gain and directivity,	Seminar	Antenna Theory analysis and design - Costantine , Antenna by cross		8-Oct		AUT
16	08 to 10 Oct	6	4	Gain and directivity, Atmosphere of Earth, Terrestrial Propagation of Electromagnetic waves; Fading, Noise and interference, Ground wave propagation, Ionospheric propagation,	Seminar	Antenna Theory analysis and design - Costantine , Antenna by cross		15-Oct		AUT

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COEW/ETC / 18-19 Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

aculty Name: Prof. Amit G. Fulsunge | Subject: Network Analysis & Synthesis | SEM III (2018-19) | Sem:- ODD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18/06/18 to 23/06/18	5	I	Introduction to applications of the subject, Basic components: resistor, capacitor and inductor, Types of Sources, Source transformation & source shifting,KVL & KCL and Mesh analysis	Handson for verifying KVL and KCL mesh and nodal analysis through simple circuit	Network analysis by D.Roy Choudhary Chapter 1,2 pg 2-78 Engineering Circuit Analysis by W. Hayt, J Kemmerly	NPTEL video +ppt	22/06/18 to 27/06/18		AUT
2	25/06/18 to 30/06/18	6	I	Nodal analysis,Mutual inductances, Basic equilibrium equations, Matrix approach for complicated networks, Super mesh and super node analysis, duality			NPTEL video +ppt	28/06/18 to 04/07/18		AUT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	02/07/18 to 07/07/18	6	II	Superposition theorem, Thevenins theorem, Maximum power transfer with example numericals	Practical demonstartion of maximum power transfer with the help of a speaker and amplifer	Network analysis by D.Roy Choudhary Chapter 7 pg 316-348	NPTEL video +ppt	05/07/18 to 11/07/18		AVT
4	09/07/18 to 14/07/18	6	II	Reciprocity theorem, Compensation theorem, Miller's theorem & its dual with example numericals	Handson for verifying theorems through simple circuit			12/07/18 to 14/07/18	14/07/18	AVT
5	16/07/18 to 21/07/18	5	II V	Tellegen's Theorem as applied to ac circuits with example numericals. Introduction to complex frequency, Definition of Laplace Transform, Basic Properties of Laplace Transform		Network analysis by D.Roy Choudhary Chapter 7 pg 348, Chapter 5 pg 245- 262, Engineering Circuit Analysis by W. Hayt, J Kemmerly	NPTEL video +ppt	16/07/18 to 21/07/18		AVT

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WEEK No.	Week	No. Of lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
				example numericals	a speaker and amplifier	Network analysis by D.Roy Choudhary Chapter 7 pg 316-348	NPTEL video +ppt			
4	09/07/18 to 14/07/18	6	II	Reciprocity theorem, Compensastion theorem, Miller's theorem & its dual with example numericals	Practical for verifying theorems through simple circuit, Simulation on Multisim					
5	16/07/18 to 21/07/18	5	II V	Tellegen's Theorem as applied to ac circuits with example numericals. Introduction to complex frequency, Definition of Laplace Transform, Basic Properties of Laplace Transform		Network analysis by D.Roy Choudhary Chapter 7 pg 348, Chapter 5 pg 245- 262	NPTEL video +ppt			
6	23/07/18 to 28/07/18	6	V	Inverse Laplace Transform Techniques, Laplace Transform of Basic R,L and C components, Transient response of simple electrical circuits such as RL & RC to standard inputs	Simulation on Multisim	Network analysis by D.Roy Choudhary	NPTEL video +ppt	23/07/18 to 27/07/18		AVJ

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						Refrence Book -		Completion	Assignment/T	HOD's sign
	30/07/18 to 04/08/18	6	III	Numericals based of Transient Response estimation. Evaluation of initial & Final conditions.	Simulation on Matlab	Network analysis by D. Roy Choudhari	PPt	30/07/18 to 04/08/18		AVJ
8	06/08/18 to 11/08/18	6	VI	Terminal characteristics of network: Z, Y, h, ABCD ParametersReciprocity and Symmetry conditions, Applications of the parameters	Simulation on Multisim	k analysis by D.Roy Ch	NPTEL video +ppt	06/08/18 to 11/08/18		AVJ
9	13/08/18 to 18/08/18	6	VI	Network functions for one port and two port networks, Pole-zeros of network functions and network stability,	Simulation on Multisim	Network analysis by D.Roy Choudhary		13/08/18 to 20/08/18	18/08/18	AVJ
10	20/08/18 to 24/08/18	5	III	Significance of Quality factor. Series Resonance: Impedance, Phase angle variations with frequency, Voltage and current variation with frequency, Bandwidth & Selectivity,	Observing output waveforms using Spectrum analyzer	Network analysis by D.Roy Choudhary	NPTEL video +ppt	22/08/18 to 27/08/18		AVJ

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	27/09/18 to 01/09/18	6	III	Parallel resonance i.e Resonance frequency and admittance variation with frequency. Bandwidth and selectivity Comparison & applications of series & parallel resonance circuits.	Observing waveforms using Spectrum analyzer	Network analysis by D.Roy Choudhary	ppt	28/08/18 to 01/09/18		RJT
12	03/09/18 to 07/09/18	5	IV	Filters & Attenuators: Filter fundamentals, pass and stop band, constant k prototype, LPF, HPF, BPF, Band stop filter, m-derived filters, composite filter design.	Observing filter output using Spectrum analyzer	Network analysis by D.Roy Choudhary	NPTEL video +ppt	03/09/18 to 07/09/18		RJT
13	10/09/18 to 15/09/18	6	IV	General case: Resistance present in both branches. Comparison and applications of series and parallel resonant circuits.	Simulation on Multisim	Network analysis by D.Roy Choudhary	NPTEL video +ppt	10/09/18 to 12/09/18		RJT
14	17/09/18 to 21/09/18	5	IV	Attenuators: Definition and Units of attenuation, Bartlett's bisection theorem, lattice attenuator, symmetrical T, and bridged attenuator, asymmetrical L-section attenuator, Ladder attenuator	Simulation on Multisim	Network analysis by D.Roy Choudhary	NPTEL video +ppt	14/09/18 to 18/09/18		RJT
15	24/09/18 to 29/09/18	6	IV	Types of Transmission lines, Transmission Line Equation, Equivalent circuits, Primary and Secondary line constants	Simulation on Multisim	Network analysis by D.Roy Choudhary	NPTEL video +ppt	21/09/18 to 22/09/18		A

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LESSON & TEACHING PLAN for EMI

Department of Electronics and Telecommunication

Faculty Name: Prof. sandhya waghmare | Year : 2018-19 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	26-30June	5	I	Introduction, Necessity of electronic Measurement, Block diagram of electronic measurement system, Types of Measurements, Function of instruments and measurement systems, Applications of measurement system		Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney, Chapter no.1, page no.1-12, Chapter no.2, page no.26-27, Chapter no.3, page no.49-62		4/7.		
2	2-7July	6		Elements of measurement system, Types of instruments, Theory of errors, Accuracy and Precision, Types of errors, Statistical analysis, probability of errors, Limiting errors, Standards of measurement				13/7.		
3	9-14 July	5	II	Construction of Galvanometer, Suspension Galvanometer, Torque and deflection Galvanometer, PMMC mechanism, Ammeters		Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney,Chapter no.8, page no.197-198,Chapter no.9, page no.237-249		21/8.	12/7.	
4	16-21 July	6		DC voltmeter: AC voltmeters, Peak, average and true rms voltmeters, Digital Multimeters, Ohm-meters and their design, AC indicating instruments, Watt-hour meter; Power factor meter,			video rect.	17/8.		
5	23-28 July	4	III& IV	Wheatstone Bridge, Kelvin Bridge, Maxwell's Bridge, Hay's Bridge, Schering Bridge, Desauty's Bridge Wein Bridge, Detectors for AC bridges		Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney, Chapter no.14, page no.433-437, Chapter no.16, page no.479-492		21/9.		
6	30 July-4 Aug	6		Transducers: Static and dynamic characteristics, Classification of transducersCapacitive transducer, Inductive transducer, Resistive transducer, RVDT, Strain Gauge,		Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney, Chapter no.16, page no.496, Chapter no.25, page no.755-760	PPT.	7/9		
7	6-11Aug	5								

SESSIONAL I

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8	13-18 Aug	5		RTD,Optical Transducers, Hall effect transducer, Piezoelectric transducers.		Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney, Chapter no.25, page no.766-826	BPS	1219.		
9	20-25 Aug	4	III&IV	Transducers for measurement of Pressure,Temperature, Level, Displacement, Flow		Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney, Chapter no.25, page no.826-847, page no.857-		1219.	2018.	
10	27Aug - 1Sep	6		CRO, Types, Dual trace, High frequency, sampling and storage oscilloscopes, Applications of CRO				1419		
12	3-8 Sep	5	V	Signal Generators : Introduction, Sine-wave generator, standard signal generators, Audio frequency signal generation, RF generator,Pulse generator, Function generator.		Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney, Chapter no.21, page no.641-677, Chapter no.22, page no.683-707 ,Electrical and Electronic Measurement and Instrumentation by A.K.Sawhney, Chapter no.23, page no.713-721, Chapter no.26, page no.933-943, Chapter no.31, page no.1203-		1419		
13	10-15 Sep	5		Construction and operation of Signal analyzer, Wave analyzer, Harmonic Distortion analyzer,Spectrum analyzer and Logic analyzer, Signal conditioning and its necessity				1819		
14	17-22 Sep	5		process adopted in signal conditioning Functions of Signal conditioning, AC/DC Conditioning systems, Data conversion: ADC, DAC, Generalized data acquisition system: single channel and multi-channel DAS				1919.		
16				SESSIONAL II						

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. ____Vidya S. Raut_____ Subject: OOP&DS SEM : 3rd_ETC_ (2018-19) Sem:-

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18/06/18-22/06/18	5	1	Training and Introduction about Subject, **Introduction to Object Oriented Programming** :Benefits of OOPs,Application OOPStructure of C++ program,Tutorial	Activity 1.1: Activity 1.2:	E.Balagurusamy , "Object Oriented Programming with C++" , By Tata McGraw Hill Publications. Pg. No. 4-11, 32_38, 47_50, 60_65, 75_77,90-97, 115_118, 344_360	https://www.tutorialspoint.com/	18/6 19/6 20/6 21/6 22/6	T: 22/6	AVT
2	25/06/18-30/06/18	6		Basic Data type-Derived Data type-User defined data type-Operators in C++,Class Members, Access Control, Class Scope,Control Statements,Constructor and Destructor,Tutorial	Activity 1.3 :		https://www.coursera.org/	26/6 27/6 28/6 29/6 30/6	T: 30/6	AVT
3	02/07/18-07/07/18	6		parameter passing method inline function, static class members,this pointer, friend function, Dynamic memory allocation and de allocation (new and delete), exception handling,Tutorial	Activity 1.4		https://www.tutorialspoint.com/	3/7 4/7 5/7 6/7 7/7	T: 7/7	AVT
4	09/07/18-13/07/18	5		**Features of Object Oriented Programming :** Function Overloading, Generic Programming: Function and class templates,Defining operator	Activity 2.1:	E.Balagurusamy , "Object Oriented Programming with	https://www.coursera.org/	10/7 11/7 12/7 13/7	T: 10/7	AVT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
			2	overloading.Tutorial		C++", By Tata McGraw Hill Publications. Pg. No 82-83,323-332,155-170		14/7		
5	16/07/18-21/07/18	6		Defining operator overloading overloading unary operator overloading binary operator overloading binary operator rules for operator overloading.	Activity 2.2: Problem solving Practice in group.		https://www.coursera.org/	17/7 18/7 18/7, 24/7 19/7 24/7	T: 20/7	AVJ
6	24/07/18-27/07/18	4	3	**Inheritance :**Inheritance basics base and derived classes inheritance types:-single inheritance, multilevel inheritance, multiple inheritance, hierarchal inheritance hybrid inheritance Tutorial	Activity3.1: Problem solving Practice in group. Activity 3.2 Knowledge Probe	Object -Oriented Programming with C++ By Rohit Khurana Pg. No 182,192-195,184-193,197-203,205,246,251,209	http://www.w3schools.com/	24/7 26/7 27/7 30/7 31/7	Assignment 01 30/8/18	AVJ
7	30/07/18-04/08/18	6		virtual base class run time polymorphism using virtual function pure virtual function abstract classes. Tutorial	Activity 3.1:		https://www.tutorialcup.com/	1/8 1/8 2/8 3/8 4/8	T: 4/8	AVJ
8	06/08/18-10/08/18			**Sessional I**						
9	13/08/18-18/08/18	5	4	**Introduction to Data structure** **Arrays-**Introduction-Linear arrays epresentation of linear arrays in memory Tutorial Sorting : selection sort Insertion Sort, Bubble Sort	Activity 4.1:	Fundamental of Data Structure in C++ by Horowitz,Sahani, GALGOTIA Pg. No 24-31,329,352,365,339-394	http://nptel.ac.in/	13/8 14/8 16/8 17/8	T: 17/8	AVJ
10	20/08/18-24/08/18	4		Quick Sort, Merge Sort radix sort, linear Search Binary Search, Tutorial	Activity 4.2:		https://www.coursera.org/	20/8 20/8 21/8 23/8	T: 23/8	AVJ

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	27/08/18-01/09/18	6	5	**Introduction of Stack and Queue** :Dynamic memory allocation "Linked list: Introduction-Representation of singly Linked List in memory" Traversing a linked list Tutorial	Activity 5.1:	Data Structure using c & C++ by Langsam,Tenenbaum, PHI Pg. No 77-83 174-181,internate & notes,187,220 from kamthanc,220,187-191,191-197	http://nptel.ac.in/	27/8 2/9/8 29/8 29/8 30/8	T: 30/8	AUJ
12	03/09/18-07/09/18	5		Searching a linked list insertion and deletion in linked list implementation of stack and queue using linked representation Tutorial	Activity 5.2:		http://www.indiabix.com/	1/9 3/9 4/9 5/9	Assig no 2	AUJ
13	10/09/18-15/09/18	5	6	**Trees:** Basic terminology Binary Trees,Binary tree representation,algebraic Expressions,Complete Binary Tree .Array and Linked Representation of Binary trees Traversing Binary trees	Activity 6.1:	An Introduction to Data Structure with application by Tremblay Sorenson,mming with C++" , Tata McGraw Hill Publications. Pg. No 249-260,401-405	*http://www.indiabix.com/*	6/9 11/9 12/9 14/9 17/9	T: 17/9	AUJ
14	17/09/18-21/09/18	5		Binary search Tree Implementation Operations:Searching,Insertion and deletion in binary search trees Treaded Binary trees,Traversing Threaded Binary trees.	Activity 6.2:		https://in.udacity.com/	18/9 20/9 21/9 22/9 24/9	Assig 3	AUJ
15	25/09/18- 29/09/18			**Sessional II**						

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Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sneha Uttarwar						Subject: AM-III		SEM III ETC (2018-19)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book Chapter no. Page no,edition. No	ICT tools	Completion Date		HOD's sign
1	26 June - 30 June	5	VI	**MATRICES** Linear Transformations, Orthogonal Transformations,Linear dependence of vectors,Characteristics equation, Eigen values and Eigen vectors,Reduction to Diagonal form	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 2.41 to 2.59	Using PPT Diagonalisation of matrix	29/06/18		AJ
2	2 July- 5 July	4		Cayley Hamilton Theorem [without proof],Reduction of Quadratic form to Canonical form by Orthogonal transformation, Sylvester's theorem [without proof],	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 2.70 to 2.72	Steps to find out Caley Hamilton Theorem using animated video	4/07/18		AJ

3	9 July - 13 July	5		Solution of Second Order Linear Differential Equation with Constant Coefficients by Matrix method. Tutorial-1	Solving example	Engineering Mathematics Shobhane & Tembhekar 2.73 to 2.81		13/07/18		AJ
4	16 July-21 July	6	V	**PARTIAL DIFFERENTIAL EQUATIONS:** First Order First Degree i.e. Lagrange's form, Linear Homogeneous Equations of higher order with constant coefficients, Method of separations of variables,	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 7.3 to 7.26	Using PPT	19/07/18		AJ
5	23 July-28 July	6		Applications of Laplace Transform to solve Partial Differential Equations (One dimensional only).separations of variables, Tutorial-2	Solving example	Engineering Mathematics Shobhane & Tembhekar 7.27 to 7.47	Using PPT	25/07/18		AJ
6	30 July-4 Aug	6	II	**FOURIER SERIES & FOURIER TRANSFORM:** Periodic functions and their Fourier Expansions , Even and Odd functions, Change of interval, Half Range Expansions. Tutorial-3	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 3.3 to 3.27	Using PPT	04/08/18		AJ
06 Aug - 10Aug				Sessional I						

Subject Teacher **HOD**

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7	13 Aug - 18 Aug	5	II	**Fourier Transform:** Definition and Properties (excluding FFT), Fourier Integral Theorem, FUNCTIONS OF COMPLEX VARIABLE , Analytic function	Solving example	Engineering Mathematics Shobhane & Tembhekar 5.2 to 5.14	Using PPT	18/09/18		AJ
8	20 Aug- 24 Aug	5	IV	Cauchy- Riemann Conditions, Harmonic Functions (excluding orthogonal system), Taylor's & Laurent's series (Statement only),	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 1.1 - 1.32	Using PPT	24/08/18		AJ
9	27 Aug - 1 Sep	6		Zeros and Singularities of Analytic function, Contour integration (Evaluation of real definite integral around unit circle and semi-circle)Residue Theorem (Statement only), Tutorial-4	Solving example	Engineering Mathematics Shobhane & Tembhekar 1.39-1.61	Using PPT	3/09/18		AJ7
10	3Sep - 8 Sep	6	I	**Laplace Transform:** Introduction , Defination, L- T of some elementary function, Change of scale property, Properties of L-T, Shifting property, L-T of derivative, L-T of integrals, Division by t, multiplication by t,	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 4.1 - 4.17	Using PPT	10/09/18		AJ
11	10 Sep - 14 Sep	4		Inverse L-T, Method of partial fraction, Convolution theorem(Statement Only), L.T.Inverse Using properties and standard result finding , Tutorial-6	Solving example	Engineering Mathematics Shobhane & Tembhekar 4.18 - 4.47	Using PPT	13/09/18		AJ

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12	17 Sept-21 Sept	6	III	Unit Step Function, L-T of Periodic Functions (statement only), Application of L.T to solve differential equations ,Integral equation , Simultaneous Differential Equations,Integro-Differential Equations. **CALCULUS OF VARIATIONS:** Maxima and minima of functionals, Euler's equation(statement only), Isoperimetric Problems, Tutorial 7	Solving example	Engineering Mathematics Shobhane & Tembhekar 10.1 - 10.20	Using PPT	5/10/18 10/10/18		
13	25 Sept-29 Sept			**Sessional II**						

Subject Teacher

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CCOEW/ETC / 18-19

Date: 7 / 12 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Jaya. M.Gadge | Subject: Wireless and Mobile Communication | Year : 2018-19 | Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18-19 D P C. 24-30 Dec	6	I	Evolution of mobile radio communication. Cellular telephone system,	Explain GSM with different frequency bands	Theodore, S.Rappaport, 2nd Edition(Pg. No. 1-15)		19/12 28/12		
2	1-5 Jan	5	I	frequency reuse, channel assignment and handoff strategies, interference and system capacity, trunking and grade of service, improving capacity in cellular system	Explain by giving example of roaming and mobile use in other city	Theodore, S.Rappaport, 2nd Edition(Pg. No. 58-76)		2/1 09/01	Assignment 1 9/1/19	
2	7-11 Jan	5	II	Causes of propagation path loss, causes of fading-long and short term, definition of sample average, statistical average, probability distribution,		Theodore, S.Rappaport, 2nd Edition(Pg. No. 77-93)		25/2 25/2		
					Anannya 2018-19					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	21-25 Jan	5	II	level crossing rate and average duration of fade, delay spread, coherence bandwidth, inter-symbol interference		Theodore, S.Rappaport, 2nd Edition(Pg. No. 202)		01/03 → 04/3		
4	28Jan-21Feb	6	III	Fundamentals of equalization, space polarization, frequency and time diversity techniques,		Theodore, S.Rappaport, 2nd Edition(Pg. No. 355-380)	https://www.youtube.com/watch?v=qIJGl8RrGMU	05/3 → 08/3		
5	04-08 Feb	5	III	space diversity, polarization diversity, frequency and time diversity, fundamentals of channel coding	PPT	Theodore, S.Rappaport, 2nd Edition(Pg. No. 385-394)		11/3		
6	11 Feb-16 Feb	6	III	Applications of diversity and fundamentals of channel coding				13/3		
7		5		**Sessional I**						
8	25 Feb-2 March	6	IV	Global system for mobile: service and features, GSM system architecture, GSM radio subsystem, GSM channel type, GSM frame structure,	ICT Tools (PPT) also taking mobile apps and uses of GSM mobile phone	Theodore, S.Rappaport, 2nd Edition(Pg. No. 549-561)		09/1 → 16/01		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
9	4-8 March	5	IV	signal processing in GSM,introduction to CDMA digital cellular standard, Third generation wireless networks, 3G technology	Explain GSM block designing using GNU Radio Software	Theodore, S.Rappaport, 2nd Edition(Pg. No. 563-501)		19/01 ↓ 25/01	Assignment 2 11/2/17	
10	11-16 March	6	V	Difference between wireless and fixed telephone networks, development of wireless network, traffic routing in wireless networks.	Explain with examples of bluetooth ,wi-fi ,RF module etc .	Theodore, S.Rappaport, 2nd Edition(Pg. No. 493-505)		05/02 ↓ 10/2		
11	18-22 March	4	V	Mobile IP and wireless access protocol, mobile IP, operation of mobile IP,collocated address, Registration, Tunneling, WAP Architecture, overview, WML scripts, WAP service, WAP session protocol	PPT			12/2 ↓ 16/2	Assignment	
12	25-30 March	6	VI	Infrared LANs, Spread spectrum LANs, Narrow bank microwave LANs, IEEE 802 protocol, Architecture, IEEE 802 arcitecture and services,	Explain with real time applications with their area wise distance			15/3 ↓ 18/3		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13		5	VI	892.11 medium access control, 802.11 physical layer. Wireless Application Protocol: architecture, WDP, WTLS, WTP, WSP, WAE, WML scripts.	Explain with real time applications with application layer	S. Rapaport.		[9/13 ↓ 2013		
15	2-7 April					Sessional II				

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Date: 17 /12 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. A. S. Jambhulkar						Subject: DCOM		SEM VI ETC (2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	13 Dec - 19 Dec	7		Workshop on Embedded Systems						
2	20 Dec - 24 Dec	5	I	Review of Random variables, PDFs & CDFs, Central limit Theorem	Forming of groups of students to solving numericals based on all properties	Digital communication: Simon Haykin (WEP)	PPT and NPTEL Video	4/1/19	Assignment No. 1	AVJ
3	26 Dec - 29 Dec	4		Model of digital communication system, Gram Schmitt Orthogonalization procedure, Signal space concept	Evaluation of block diagram of digital communication system		PPT and NPTEL Video	9/1/19		AVJ

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4	31 Dec - 5 Jan	6	I	Geometric interpretation of signals, probability of error, correlation receiver, matched filter receiver	Matched filter design on matlab software	Digital communication: Simon Haykin (WEP)	PPT and NPTEL Video	21/1/19		AV
5	7 Jan- 11 Jan	6	II	Source coding Theorem, Huffman coding, L-Z encoding algorithm	Forming of groups of students to solving numericals numericals on different coding techniques and examples for practice		PPT and NPTEL Video	6/2/19		AV
6	14 Jan - 19 Jan	7	II	Rate distortion theory for optimum quantization, scalar & vector quantization	Forming of groups of students to solving numericals numericals on different coding techniques and examples for practice	Digital communication: Simon Haykin (WEP)	PPT and NPTEL Video	8/2/19		AV
7	21 Jan - 25 Jan	7		Waveform coding methods: ADPCM, Adaptive Sub-Band & Transform coding, LP & CELP coding,			PPT and NPTEL Video	14/2/19 & 16/2/19		AV
Annanya 18 -19										
8	5 Feb - 8 Feb	4	III	Coherent Binary: QPSK, MSK, Gaussian MSK	Observe different waveforms on MATLAB software	Digital Communication: J.S.Chitode	PPT and NPTEL Video	23/2/19		

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9	11 Feb - 16 Feb	7	III	DPSK,Memory less modulation methods, linear modulation with memory,nonlinear modulation methods with memory: CPFSK, CPM.	Observe different waveforms on MATLAB software	Digital Communication: J.S.Chitode	PPT and NPTEL Video	25/2/19		
SESSIONAL - I (18 Feb - 23 Feb)										
	25 Feb - 2 March	6	IV	Introduction to Galois field, Construction of Galois field GF (2 m) & its basic properties	Derivation of galois field mathematically on board	Error control coding: Shu Lin	PPT and NPTEL Video	25/2/19		
11	4 March - 8 March	5		Types of error control: Forward error correction (FEC), Automatic repeat request system (ARQ). Convolution encoding and decoding	Forming of groups of students to solving numericals numericals on different coding techniques and examples for practice	Digital Communication: J.S.Chitode	PPT and NPTEL Video	1/3/19		
12	11 March - 16 March	6	IV,V	Distance properties, Viterbi algorithm and Fano algorithm. Trellis coded modulation, Introduction to Turbo coding	Forming of groups of students to solving numericals numericals on different coding techniques and examples for practice	Digital Communication: J.S.Chitode,Digital communication: Simon Haykin (WEP)	PPT and NPTEL Video	7/3/19	Assignment No. 2	

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13	18 March - 23 March	6	V, VI	Reed Solomon Codes: encoding & decoding,Low density parity check coding (LDPC), Study of PN sequences,direct sequence methods	Forming of groups of students to solving numericals numericals on different coding techniques and examples for practice	Digital communication: Simon Haykin (WEP)	PPT and NPTEL Video	13/3/19	Assignment No.3	
14	25 March - 30 March	6	VI	Frequency hop methods, slow and fast frequency hop,synchronization methods for spread spectrum, Application of spread spectrum, CDMA, Introduction to OFDM	Observe different waveforms on MATLAB software	Digital Communication: J.S.Chitode	PPT and NPTEL Video	25/3/19		
				SESSIONAL - II (1 April - 8 April)						

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Date: 7 / 12 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Jaya. M.Gadge						Subject: Microwave and RADAR Engineering		Year : 2018-19		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24-30 Dec	6	I	Introduction of Microwave signals ,range and Tubes,High frequency limitations of conventional tubes	Shows the conventional tubes and microwave tubes	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India,Microwave and Radar Engg. By M.Kulkarni(Page no. 297 - 338)		19/12 25/12		
2	1-5 Jan	5	I	Two Cavity and multi cavity Klystrons ,Structure and working with numericals	explain with existing klystron generator in lab			27/12 29/12		
2	7-11 Jan	5	I	Reflex Klystrons, slow-wave structure: TWT with Numericals and Derivation	Power measurement using Reflex Klystron with variation by practically			31/12 5/1/19		
					Anannya 2018-19					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	21-25 Jan	5	I	BWO(Backword wave oscillator),Magnetron oscillator and its types		Microwave and Radar Engg. By M.Kulkarni(Page no. 339-368)		[illegible]		
4	28Jan-01Feb	6	II	Introduction of Microwave Components,Introduction to rectangular waveguide & waveguide excitation		S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 199-260)	https://www.youtube.com/watch?v=qIJGl8RzGMU	11/01 ↓ (31/01	Assignment 01 14/01/19	
5	04-08 Feb	5	II	Principles of S-parameters, Sparameters for multi-ports (2-port, 3-port, 4-port etc.)	~~PPT~~	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 199-240)	https://www.slideserve.com/Gabriel/chapter-four-angle-modulation	14/01 ↓ 19/01		
6	11 Feb-16 Feb	6	II	properties of S-matrix, Derivation ,waveguide Tees (E, H, E-H planes), Directional Couplers, matched terminations	Taking Real timeApplications		http://thesij.com/papers/CNCE/2013/September-October/CNCE-01045301O1.pdf,https://www.youtube.com/watch?v=iqJpbPseX2c	21/01 ↓ 24/01		
7		5		**Sessional I**						

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WEEK NO.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
8	25 Feb-2 March	6	II	Microwave attenuators,Slotted line, Ferrite devices, Circulators, Isolators, gyrators.	~~ICT Tools (PPT)~~	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 241-260)		25/01 ↓ 01/02		
9	4-8 March	5	III	Solid State Microwave Devices,Parametric amplifiers, PIN diodes, Transferred Electron devices: Gunn diode,Avalanche diode, Transit Time devices like IMPATT, TRAPATT diodes.	~~Video Lectures~~	S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India,Microwave and Radar Engg. By M.Kulkarni(Page no. 369-436)	NPTEL videos	01/3 ↓ 06/3		
10	11-16 March	6	V	Introduction of Radar Fundamentals:Basic principles and fundamentals of Radar , block diagram of basic radar, classification, radar performance factors	~~PPT~~	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications and Microwave and Radar Engg. By M.Kulkarni(Page no. 513-545)		07/2 ↓ 13/2	Assign mnt 2	
11	18-22 March	4	V	radar range equation, factors influencing maximum range,Numericals based on Radar range Equation ,effects of noise, Pulsed radar systems.	PPT			14/2 ↓ 18/2	15/2	

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EEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	25-30 March	6	VI	Antennas and scanning, display methods, moving target indication, radar beacons, CW Doppler radar,FM CW phased array radars, applications of radar	PPT	Skolnik, "Principles of Radar Engineering", McGraw Hill Publications and Microwave and Radar Engg. By M.Kulkarni(Page no. 545-570)		2/2 28/3		
13		5	IV	Microwave measurement: Introduction to microwave measurements, definition and measurement methods of frequency,power, attenuation VSWR, impedance, insertion loss, dielectric constant, Q of a cavity resonator, phase shift.		S.Y. Liao, "Microwave Devices and Circuits", Prentice Hall India and Microwave and Radar Engg. By M.Kulkarni(Page no. 261-296)		4/3 4/5/3		
15	2-7 April			Sessional II						

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Date: 20/ 12/ 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR										
Faculty Name: Prof. A.G. Fulsunge						Subject: S&S		SEM VI ETC (2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	13 Dec - 19 Dec	3		**Workshop on Embedded Systems**	Hands on 8051 programming,Arduino programming, LCD module, relay, DC motor interfacing, Serial and GSM based communication		PPT+ Hardware Kit +Software tool			
2	20 Dec - 21 Dec	2	I	Types of signals,Analysis of signals, Representation of signals using a set of orthogonal signals, Feriodic and non-periodic signals,Sampling theory for band limited signals	**Matlab + Spectrum Analyzer**	Signals & Systems B.P.Lathi	PPT+ Chalk & Board	19/01/19		
3	26 Dec - 29 Dec	4		Fourier series representation of periodic signals, Fourier transform of periodc and non periodic signals,Properties of Fourier transform, convolution in time & frequency domain	**Matlab**	Signals & Systems B.P.Lathi	PPT+ Chalk & Board	11/01/19 to 12/02/19		

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4	31 Dec - 5 Jan	6	II	Probability,Review of probability theory,, random variables, probability density and distribution function, Random processes, periodic processes,		Digital Communication Dr. J.S. Chitode	PPT+ Chalk & Board				
5	7 Jan- 11 Jan	5		Stationary processes,Autocorrelation, cross correlation, application to signal analysis , power density and spectral density function		Digital Communication Dr. J.S. Chitode	PPT+ Chalk & Board				
6	21 Jan - 25 Jan	6									
7	28 Jan - 2 Feb	6									
8	4 Feb - 8 Feb	5									

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sandhya Waghmare		Subject: Control System		Year : 2018-19	Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	24 DEC-30 Dec	6	I	Introduction to need for automation and automatic control, use of feedback,	Example based on real life	Nagrath & Gopal (Pg.)		30 Dec.		
2	1Jan-5Jan	5	I	transfer functions, Electrical and Mechanical sytem	Through MATLAB simulation ,RULEs Writeing Competetion	Nagrath & Gopal (Pg.)		5 Jan.		
3	7Jan-11Jan	5	I	block diagram,signal flow graphs, Effect of feedback on parameter variation, disturbance signal,	Through MATLAB simulation	Nagrath & Gopal (Pg.)		22/Jan		
4	21Jan-25Jan	5	II	Time response of the system, first order & second order system,	Through MATLAB simulation	Nagrath & Gopal (Pg.)		5/Feb	25/01	

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	28 Jan-2 Feb			ANANNYA							
5	4Feb-8Feb	6	II~~I~~ III	Principles of P,PI,PD,PID controllers.Stability: Stability of control systems, conditions of stability, characteristic equation, Routh Hurwitz criterion, special cases for determining relative stability.	Through MATLAB simulation SOLVING MORE NUMERICAL	Nagrath & Gopal (Pg. 194-248)	15|2				
6	11Feb-16Feb	5	III	Root Locus method: Root location and its effect on time response, elementary idea of Root Locus,	Through MATLAB simulation.SOLVING MORE NUMERICAL	Nagrath & Gopal (Pg. 194-248)	9|3				
	18Feb-22Feb			**SESSIONAL I**							
7	25Feb-2 March	6	II	effect of adding pole and zero and proximity of imaginary axis.	Through MATLAB simulation	Barapatre (Pg. No. CA1-CA16)	5|3				
8	4March-8 March	6	II	Frequency response method of analysing linear system, Nyquist & Bode Plot, stability & accuracy analysis from frequency response, open loop & closed loop frequency response.	SOLVING MORE NUMERICAL ,MATLAB Simulation	Nagrath & Gopal (Pg. 270-290)	9|3.				
9	11March-16 March	5	III	Nyquist criteria, effect of variation of gain & addition of poles & zeros on response plot, stability margin in frequency response.	SOLVING MORE NUMERICAL ,MATLAB Simulation	Nagrath & Gopal (Pg. 298-302)	13|3				
10	18March-22March	6	V	Needs of compensations, lead compensations, Lag compensations, Lead-Lag compensations (theoretical concepts)	SOLVING MORE NUMERICAL ,MATLAB Simulation	Nagrath & Gopal (Pg. 298-302)					
11	25 March 30 March	4	V	Overview of various transducers with their signal conditioning systems.	SOLVING MORE NUMERICAL ,MATLAB Simulation	Nagrath & Gopal (Pg. 345-376)					

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12		6	IV	State variable method of analysis, state choice of state representation of vector matrix differential equation,	SOLVING MORE NUMERICAL ,MATLAB Simulation	Nagrath & Gopal (Pg. 377-423)					
20	02Apr - 07 Apr	SESSIONAL II									

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Date: / / 2018

LESSON & TEACHING PLAN for DIGITAL SIGNAL PROCESSING

Department of Electronics and Tele Communication

Faculty Name: Pallavi P. Ganorkar | Year : 2018-19 | Sem: VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17-22 Dec	3	I	Basic elements of DSP and its requirement, Advantages of Digital over analog signal processing, sampling theorem, sampling process and reconstruction of sampling data		J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education	https://www.youtube.com/watch?v=nzbv42vOEEQ	21|12|18		
2	24-29 Dec	5		Discrete time signals & systems: Discrete time signals & systems, classification of discrete time signals and systems, LTI systems	Verification on MATLAB			31|12|18		
3	31 Dec-5 Jan	6	I,II	linear convolution, Cross Correlation, Autocorrelation. The Z-transform: Definition, properties of the region of convergence for the Z-transform	Verification on MATLAB	J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education		10|1|19		
4	7-12 Jan	5	II	Z-transform properties, Inverse Z-transform, Parseval's theorem	Verification on MATLAB			23|1|19		
5	14-19 Jan	Anannya 2K19								
6	21-26 Jan	5	II,III	unilateral Z-transform. Definition and properties of DFT, IDFT, Relation between DFT and Z–Transform	Verification on MATLAB			11|2|19	Ass. 1 6|2|19	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	28 Jan-2 Feb	6	III	Radix- 2 FFT algorithms, Linear filtering methods based on DFT, circular convolution		J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education	https://www.youtube.com/watch?v=vPFHzIXZqSE			
8	4-9 Feb	5		Frequency analysis of discrete time signals using DFT, Gortzel algorithm						
9	11-16 Feb	6	IV	Filter design methods – Approximation of derivatives, Impulse invariance, bilinear transformation,	Verification on MATLAB					
10	18-23 Feb									
				Sessional I						
11	25 Feb-2 Mar	6	IV	characteristics & designing of Butterworth, Chebyshev filters, frequency transformations		J.G. Proakis, D.G. Manolakis "Digital Signal Processing: Principles, algorithms and applications, Pearson Education				
12	4-9 Mar	4		IIR filter structuresDirect form I-II, transpose form, parallel form, cascade, Lattice and Lattice-ladder structures						
13	11-16 Mar	6	V	Symmetric and antisymmetric FIR filters, Linear phase FIR filter, design of FIR filters using windows (Rectangular, Bartlett, Hanning, Hamming & Blakman)	Verification on MATLAB					
14	18-23 Mar	4		frequency sampling method, FIR differentiators, FIR filter structures						
15	25-30 Mar	6	VI	Introduction, Decimation by factor D, Interpolation by factor I, Sampling rate conversion by rational factor I/D, Sub band coding of speech signals and its applications, introduction to wavelet & wavelet transform		A.V. Oppenheim, R.W. Schafer, "Discrete Time Signal Processing", Pearson Education	https://www.youtube.com/watch?v=GbxPp_mELVM			
16				Introduction to DSP architecture TMS 320						

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CCOEW/ Department of E & TC / 17-18

Date: 12 / 6 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sandhya Waghmare | Subject: SATCOM | Year : 2018-19 | Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24 DEC-30 Dec	6	I	Introduction to satellite communication, Origin of Satellite communication, Current state of satellite communication	Video	"Satellite Communication" by T. Pratt (Pg. no. 3- 15)	–	30 Dec.		
2	1Jan-5Jan	5	I	Orbital aspect of satellite communication: Orbital mechanism, equation of orbit, locating satellite in orbit, orbital elements, and orbital perturbation	Video (NPTEL).	"Satellite Communication" by T. Pratt (Pg. No.20-38)	–	7 Jan.		
3	7Jan-11Jan	5	I	Space craft subsystem:Attitude and orbit control system, Telemetry tracking and command power system, and communication subsystem		"Satellite Communication" by T. Pratt (Pg. No.17,22,42,68)		14 Jan		
4	21Jan-25Jan	5	II	System noise temperature and T / T ratio down link design, domestic satellite system uplink design, design of satellite link for specified (C / N)		"Satellite Communication" by T. Pratt (Pg. No.116)		512.		

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				ANANNYA						
	28 Jan-2 Feb									
5	4Feb-8Feb	6	III	FDMA, FDM / FM / FDMA, effects of intermodulation, companded FDM / FM / FDMA, TDMA, TDMA frame structure and design		"Satellite Communication" by T. Pratt (Pg. No.112,125)	15/2			
7	11Feb-16Feb	5	II	TDMA synchronization and timing, code division multiple access, SS transmission and reception, Applicability of CDMA to commercial system, multiple access on board processing SCPS system, digital speech interpolation system, DAMA.		"Satellite Communication" by T. Pratt (Pg. No.)	28/2			
	18FEB-22 FEB			SESSIONAL I						
9	25Feb-2 March	6	II	Error detection and correction, channel capacity, error detecting codes, linear block codes		"Satellite Communication" by T. Pratt (Pg. No.223-246,258,)	1/3.			
9	4March-8 March	5	III	error correction with linear block codes,performance of block error correction codes		"Satellite Communication" by T. Pratt (Pg. No.225,249)	2/3			
13	11March-16 March	6	V	convolution codes, cyclic codes, BCH and codes, error detection on satellite links	MATLAB for Convolution Code	"Satellite Communication" by T. Pratt (Pg. No.333,103,297)	7/3			
14	18March-22March	4	V	Earth Station design; antennas tracking, LNA, HPA		"Satellite Communication" by T. Pratt (Pg. No.310,315)				

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15	25 March 30 March	6	IV	RF multiplexing, factors affecting orbit utilization, tracking, equipment for earth station.		"Satellite Communication" by T. Pratt (Pg. No.273,275,280)				
20	02Apr - 07 Apr	SESSIONAL II								

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CCOEW/ETC / 18-19 Date: / / 2018

LESSON & TEACHING PLAN for COMPUTER COMMUNICATION NETWORK

Department of Electronics and Tele Communication

Faculty Name: Pallavi P. Ganorkar | Year : 2018-19 | Sem: VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17-22 Dec	3	I	Uses of computer Network, Network Software-design Issues for layers		Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education		21/12/18		
2	24-29 Dec	5		Service primitives and relationship of services to Protocols, Reference models-OSI &TCP/IP			https://www.youtube.com/watch?v=LX_b2M3IzN8	29/12/18		
3	31 Dec-5 Jan	6		network architectures introduction, Example of networks-X.25, Frame Relay & ATM, Protocols and Standards				1/1/19		
4	7-12 Jan	5	II	Physical layer-Data rate limits, Transmission media-guided and Unguided, Switching systems-Circuit switching	Visit to BSNL	Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education	https://www.youtube.com/watch?v=_R4ktHXmAFg	5/1/19		
5	14-19 Jan	Anannya 2K19								
6	21-26 Jan	5	II	Datagram Switching & Virtual circuit switching, Structure of circuit and packet switch, cable modem and DSL technologies	Visit to BSNL	Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education	https://www.youtube.com/watch?v=GROsbN1mb0U	8/1/19	11/1/19	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	28 Jan-2 Feb	6	II,III	SONET basics, selection of IEEE std 802.11 ,a,b,c,g, Data link layer: Framing, Flow & Error control Protocols, HDLC, PPP		Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education	18/1/19			AVJ
8	4-9 Feb	5	III	Multiple access techniques,random access, controlled access & Channelization, Ethernet types-bridged, Switched, Full duplex, Fast & gigabit Ethernet, Introduction to Data link layer in 802.11 LAN		Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education	23/1/19			AVJ
9	11-16 Feb	6		Connecting devices like passive hubs, repeaters, Active hubs, Bridges, Two-layer Switches, Routers, three layer switches, Gateway etc., Backbone networks, Virtual LANs, Simple Router architecture, Sliding window protocol	Visit to CCN Lab		8/2/19		7/2/19	AVJ
10	18-23 Feb	Sessional I								
11	25 Feb-2 Mar	6	IV	IPv4 address, IPv6 address, Address mapping-ARP, RARP & DHCP, IPv4 datagram detail format, IPv6 datagram detail format, **Industrial Visit**		Andrew Tenenbaum, "Computer Networks", 4th Edition, Pearson Education	16/2/19			AVJ
12	4-9 Mar	4		ICMP, IGMP, Network layer issues like Delivery, forwarding, intra-domain and Inter-domain routing, Routing algorithms like Shortest path routing, Flooding	Simulation on NS2					
13	11-16 Mar	6		Distance Vector Routing, Link State Routing, Path vector routing etc., Addressing types-Physical, Logical & port address.Process to process delivery, Connection oriented & Connectionless Transport, UDP	Simulation on NS2					

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CCOEW/ Department of Electronics and Telecommunication / 17-18 Date: 09 / 06 / 2017

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Ajay Tinguria | Subject: DCFMU | SEM 4th (2017-18)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark
1	17 to 22 Dec	3	1	Rivision of Binary Number System	Modern Digital Electronics Microprocessor Architecture and Programming	22-Dec			AJT
2	24 to 29 Dec	5	1	Standard representations for logic functions, k map representation of logic functions (SOP & POS forms),	Modern Digital Electronics Microprocessor Architecture and Programming	29-Dec			AJT

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3	31 Dec to 5 Jan	6	1	minimization of logical functions for min-terms and max-terms (upto 4 variables), don't care conditions,	Modern Digital Electronics Microprocessor Architecture and Programming	4-Jan	31-12		AVJ
4	7 to 12 Jan	5	1	Design Examples: Arithmetic Circuits, BCD - to – 7 segment decoder, Code converters.	Modern Digital Electronics Microprocessor Architecture and Programming	12-Jan			AVJ
5	14 to 19 Jan	5	2	Adders and their use as substractor, look ahead carry, ALU, Digital Comparator, Parity generators/checkers, Static and dynamic hazards for combinational logic.	Modern Digital Electronics Microprocessor Architecture and Programming	21-Jan			AVJ
6	21 to 26 jan	5	2	Multiplexers and their use in combinational logic designs, multiplexer trees,	Modern Digital Electronics Microprocessor Architecture and Programming	26-Jan			AVJ
7	28 jan to 02 Feb								

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8	4 to 9 Feb	5	3	Demultiplexers,	Modern Digital Electronics Microprocessor Architecture and Programming	8-Feb			AUT
9	11 to 16 Feb	6	3	**Encoders & Decoders .**	**Modern Digital Electronics Microprocessor Architecture and Programming**	**16-Feb**	10/2		AUT
10	18 to 23 Feb	0		MID TERM TEST					
11	25 Feb to 2 Mar	6	4	1 Bit Memory Cell, Clocked SR, JK, MS J-K flip flop ,D and T flip-flops.Registers, Shift registers, Counters (ring counters, twisted ring counters),Sequence Generators,	Modern Digital Electronics Microprocessor Architecture and Programming	4/3			AUT
12	4 to 9 Mar	4	4	ripple counters, up/down counters, synchronous counters, lock out, Clock	Modern Digital Electronics Microprocessor Architecture and Programming	9/3			AUT

A C Tugavia

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13	11 to 16 Mar	6	5	Classification of logic families , Characteristics of digital ICs-Speed of operation , power dissipation, figure of merit, fan in, fan out, Comparison table of Characteristics of TTL, CMOS, ECL, RTL, I2L, DCTL.	Modern Digital Electronics Microprocessor Architecture and Programming	16/3	18/		AVJ
14	05-10 MAR	6	5	Classification and characteristics of memories: RAM, ROM, EPROM, EEPROM, NVRAM, SRAM, DRAM, expanding memory size, Synchronous DRAM (SDRAM), Double Data Rate SDRAM, Synchronous SRAM, DDR and QDR SRAM, Content Addressable Memory	Modern Digital Electronics Microprocessor Architecture and Programming	18/3			AVJ
15	18 to 25 Mar	4	5	Study of PROM, PAL, PLA, Designing combinational circuits using PLDs. Introduction to microprocessor, Architecture of 8085 microprocessor,	Modern Digital Electronics Microprocessor Architecture and Programming	25/3			AVJ

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16	25 to 30 Mar	6	6	Addressing modes, 8085instruction set,Concept of assembly language programming, Interrupts.	Modern Digital Electronics Microprocessor Architecture and Programming	30/3			
18				Sessional II Exam					

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CCOEW/CE / 18-19

Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin Gorantiwar						Subject: Applied Maths IV		SEM IV ETC.(2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17 Dec-22 Dec	5	I	NUMERICAL METHODS -I Error Analysis, Solution of Algebraic and Transcendental Equations, Method of False position, Newton–Raphson method and their convergence,Newton–Raphson method for multiple roots,	Solving example by dividing group	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 9.1 To 9.10	PPT/video to solve example and algorithms of method	24/12/18		
2	24 Dec-29 Dec	5	I	Solution of system of simultaneous linear equations: Gauss elimination method ,Gauss Jordan method, Crout's method, Gauss-Seidel method.	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 9.11 To 9.30	PPT/video to solve example and algorithms of method	31-12-18		
3	31 Dec-05 Jan	6	I	Numerical solution of ordinary differential equations: Taylor's series method, Runge- Kutta 4th order method,Euler's Modified Method,Milne s Predictor- Corrector method.	Solving example by dividing group	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 9.27 To 9.40	PPT/video to solve example and algorithms of method	07-01-19		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	07 Jan-12 Jan	5	I	Runge- Kutta method to solve Simultaneous first order differential equations,Largest Eigen value and Eigen vector by Iteration method. Tutorial 1	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 9.41 To 9.46	PPT/video to solve example and algorithms of method	09-01-19		
5	14 Jan-19 Jan	5	II	Z-TRANSFORM Definition , Convergence of Z-transform and Properties,Inverse Z-transform by Partial Fraction Method,Residue Method (Inversion Integral Method)	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 6.1 To 6.19	PPT/video to solve example of inverse	22-01-19		
6	21 Jan-26 Jan	5	II	Power Series Expansion, Convolution of two sequences,Solutions of Difference Equations with Constant Coefficients by Z- transform Tutorial 2	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 6.20 To 6.27	PPT/video to solve example of convolution theorem	24-01-19		
7	28 Jan-02 Feb	Anannya Cultural Festival								
9	04 Feb-09 Feb	5	IV	Theory Of Probability Axioms of probability, Conditional probability, Bays rule, Random variables: Discrete and Continuous random variables	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg. no. 11.02 To 11.8	PPT	08-02-19	Assignment I	
8	11 Feb-16 Feb	6	IV	Probability function and Distribution function,Joint distributions,Independent Random variables, Conditional Distribution Tutorial 3	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg.no. 11.09 To 11.34	PPT/video for solved example of probability function	14-02-19		
10	18 Feb-23 Feb	SESSIONAL-I								

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	25 Feb-02 Mar	6	V	**Mathematical Expectation** Functions of random variables, Varience & Standard devation	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg.no. 12.2 To 12.8	PPT/video for solved example of mathematical exceptation	05.03.19		AUJ
12	04 Mar-09 Mar	5	V	Moment, Moment generating function, Covariance, Correlation Coefficient, Conditional Expectations, Other measures of central tendency and dispersion, Skewness and Kurtosis, Tutorial 4	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg.no. 12.9 To 12.22	PPT	09.03.19		AUJ
13	11 Mar-16 Mar	6	III	SPECIAL FUNCTIONS AND SERIES SOLUTION Series solution of differential equation by Frobanius method,Bessel's functions,Legendre's polynomials	Solving example by dividing group	Engineering Mathematics by Shobhane & Tembhekar Pg.no.8.1 To 8.16	PPT	13.03.19		AUJ
14	18 Mar-23 Mar	6	III	Recurrence relations,Rodrigue's formula, Generating functions,Orthogonal properties of Jn(x) and Pn(x) Tutorial 5	Solving example	Engineering Mathematics by Shobhane & Tembhekar Pg.no.8.16 To 8.40	PPT	14.03.19		AUJ
14	25 Mar-30 Mar	6	VI	**Probability Distribution Binomial distribution, Poisson distribution, Normal distribution, Relation between Binomial, Poisson and Normal distribution,Central Limit theorem, Exponential Distribution.**	Solving example by dividing group	Engineering Mathematics by Shobhane & Tembhekar Pg.no13.1 To 13.18	PPT/video for solved example of Probability distribution	20.03.19		AUJ (13)
16	01 Apr-8 Apr			**Sessional II**						

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Date: 17/12/2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR										
Faculty Name: Prof. A. A. Baseshankar						Subject: EMF		SEM VI ETC (2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	13 Dec - 19 Dec	3		**Workshop on Embedded Systems**	Hands on 8051 programming,Arduino programming, LCD module, relay, DC motor interfacing, Serial and GSM based communication	8051 Microcontroller By Majidi Ali	PPT+ Hardware Kit +Software tool	19 Dec		AVJ
2	20 Dec - 21 Dec	3	1.	Introduction to Cartesian, Cylindrical coordinate system	**Numericals and daily life example**	Engg. Electromagnetics by Hayt	Chalk and Board	21 Dec		AVJ
3	26 Dec - 29 Dec	5		Spherical coordinate system, Differential Length, surface and volume	**Numericals and daily life example**	Engg. Electromagnetics by Hayt	Chalk and Board	29 Dec		AVJ

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4	31 Dec - 5 Jan	7	I	Electric field intensity, flux density, Gauss's law, Divergence, Divergence Theorem	**Daily Life example and Numericals**	Engg. Electromagnetics by Hayt	PPT and NPTEL Video	5 JAN		AVJ
5	7 Jan- 11 Jan	6		Electric potential and potential gradient.	**Numericals**	Engg. Electromagnetics by Hayt	PPT and NPTEL Video	11 JAN		AVJ
6	14 Jan - 19 Jan	7	II	Laplace and Poissons equations Current density and continuity equation, Biot-Savert's lawAmpere's circuital law	**Performing experiment of Biot Savart Law in Lab**	Engg. Electromagnetics by Hayt	PPT and NPTEL Video	19 JAN		AVJ
7	21 Jan - 25 Jan	7		Applications,Magnetic flux and Flux density, Scalar and Vector magnetic potentials.Maxwell's equations for steady fields	**Numericals**	Engg. Electromagnetics by Hayt	PPT and NPTEL Video	25 JAN		AVJ
ANNANYA											

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8	5 Feb - 8 Feb	6	III	Maxwell's equations for time varying fields.Electric and magnetic boundary conditions.Electromagnetic wave equation, wave propagation in free space.	**Numericals and daily life example**	Engg. Electromagnetics by Hayt	PPT and NPTEL Video	5 Feb		
9	11 Feb - 16 Feb	7		Numerical Practice Based On Maxwell's equations	**Numericals**	Engg. Electromagnetics by Hayt	.....	5 Feb	15 Feb Assignment No-02	
SESSIONAL - I (18 Feb - 23 Feb)										

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	25 Feb -2 March	6	IV	Wave equation in a perfect dielectric, and perfect conductorskin effect, Poynting vector		Engg. Electromagnetics by Hayt		2/3 VS		AVJ
11	4 March - 8 March	5		Poynting theorem reflection and refraction of uniform plane wave at normal incidence, Planereflection at oblique incident angle, Introduction, wave equation in Cartesian coordinates.		Engg. Electromagnetics by Hayt		8/3/13 VS		AVJ
12	11 March - 16 March	6	V	Rectangular waveguideTE, TM, TEM waves in rectangular guides wave impedance.				16/3 VS		AVJ

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13	18 March - 23 March	6		Power radiated and radiation resistanceapplication to short monopole and dipole.				22/3/ VS		
14	25 March -30 March	6	VI	Antenna Efficiency, Beam-width, Radiation Intensity, Directive Gain Power Gain & Front To Back				30/3/ VS		
	1 April - 8 April									

Subject Teacher

Hod

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Department of Mechanical Engineering

(ACADEMIC YEAR 2022-23 to 2018-19)

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Academic year

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CCOEW/ME / 22-23

LESSON & TEACHING PLAN for Machining Processes

Department of Mechanical Engineering

Date:14/ 03 / 2023

Faculty Name: Prof. Dr. Shailesh Khekale

Sub: Machining Processes | Sec: | Year : 2022-23 | Sem:- IV

Unit TT No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	20-25 March	4	I	Introduction to machining & Machining Parameters	ME4MPW01D200323L01	MP_ME_ppt_01		Sharpening of pencils by sharpener to understand the material removal i.e. machining	P N Rao Ch.4, P. 116-146 Garg p.464-479, R K. Jain p. 441-464	~~24/3~~	21/3		
				Nomenclature and tool geometry of single point cutting tool	ME4MPW01D210323L02	MP_ME_ppt_01				24/3	21/3		
				Theory of Metal Cutting, Chip formation,	ME4MPW01D230323L03	MP_ME_ppt_01					27/3		
				Tool materialand it's properties, classification, HSS, carbide tool, coated tools, diamond coated tool	ME4MPW01D240323L04	MP_ME_ppt_01					28/3		
2	27 March -1 April	5	I	Orthogonal and Oblique cutting	ME4MPW02D270303L05			Cutting of potato, cucumber to understand the			~~28/3~~ 29/3		
				Mechanics of Metal Cutting	ME4MPW02D270303L06						29/3		
				Merchant's circle, Estimation of tool life, Feed and depth of cut on power requirement	ME4MPW02D270303L07			Use of different kichen tools like knife, vegetable piller etc with variation in angle,depth of cut			29/3		
				Influence of tool angle, cutting fluids, cutting speed, feed and depth of cut on power requirement,Estimation of tool life.	ME4MPW02D270303L08						31/3		
				Lathe: Introduction and types, Mechanism and attachments for various operations.	ME4MPW02D270303L09						1/4		
3	3-7 April	4	II	Construction of simple lathe	ME4MPW03D110423L10			Concept of lathe machine by taking example of rotating lead pencil with sharpener in fixed position	Hazra p.53-55, Hajra P 86 to 98 and 107 to 110 and R K Jain p. 441-464		3/4		
				Machine specifications basis for selection of cutting speed	ME4MPW03D110423L11						3/4		
				Machine specifications basis on feed and depth of cut	ME4MPW03D110423L12						4/4		
				Time estimation for turning operations such as facing, step turning	ME4MPW03D110423L13						4/4		
4	10- 15 April	5	II	Time estimation for taper turning, threading, knurling	ME4MPW04D100423L13			Concept of shaper/planer machine can be explained by keeping cucumber in horizontal position, fixed by hand on one side and using vegetable piller from			4/4		
				Introduction to Capstan & Turret Lathe and fundamentals of NC.	ME4MPW04D100423L14						6/4		
				Shaper: Introduction and types	ME4MPW04D100423L15						7/4		
				Specification, description of shaper machines,	ME4MPW04D100423L16						7/4		
				Hydraulic drives in shapers, cutting parameters	ME4MPW04D100423L17						10/4		
	17- 21 April			Sessional I									
5	24- 28April	4	II	Mechanism of shaper: Quick return mechanism, Crank & slotted link mechanism	ME4MPW05D240423L18				Garg p.464-479, R K Jain		10/4		
				Table feed mechanism, attachments for shaper, work holding devices	ME4MPW05D240423L19						11/4		
				Planer: Introduction, specifications, description, type of planner, open side planner, pit planner	ME4MPW05D240423L20						17/4		

Faculty in Charge

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Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
			Mechanism for planner: Driving mechanism, feeding mechanism, planner cutting tools, cutting parameters.	ME4MPW05D240423L21								
2 - 6 May	4	III	Milling Machine: Specification, types, column & knee type milling machine	ME4MPW06D020523L22			Students elaborated Milling machine and it's parts with their function	p. 441-464	17/4			
			Fixed bed type milling machines, production milling machines.	ME4MPW06D020523L23					18/4			
			Special purpose milling machines such as thread milling Machines	ME4MPW06D020523L24				Hazra p. 56-79 RKJain, ch. 23, p 719-725	19/4			
			Profile milling machine, Gear Milling/Hobbing machines	ME4MPW06D020523L25								
8-12 May	4	III	Types of milling operations,	ME4MPW07D080523L26					21/4			
			Tool geometry & their specifications	ME4MPW07D080523L27				Hazra p. 56-79 RKJain, ch. 23, p 719-725	21/4			
			Mechanisms & Attachments for Milling: Cutting, parameters,	ME4MPW07D080523L28					21/5			
			Indexing- simple, compound and Differential Indexing.	ME4MPW07D080523L29					2/5			
15- 20 May	5	IV	Grinding operations, grinding wheel, Specifications & selection, cylindrical & centreless grinding operation,	ME4MPW08D150523L30	MP_ME_PPt_02	MP_IM_V_01	Concept of Grinding process with Emery paper with different grades and wooden part	Hazra ch. 7, p.297-324, RKJain, ch. 23, p 719-725	2/5			
			Surface grinding, tool & cutter grinding, time estimation for grinding operations.	ME4MPW08D150523L31					5/5			
			Super finishing process: Honing, Lapping, polishing, buffing, 'polishing, buffing, 'metal spraying, Galvanizing and electroplating	ME4MPW08D150523L32					5/5			
23- 26 May	4	IV	Process parameters and attainable grades of surface finish, surface measurement: Specifications & selection, cylindrical grinding operation	ME4MPW09D150523L33				Hazra ch. 9, p. 347-356	6/5			
			Attainable grades of surface finish surface measurement	ME4MPW09D150523L34					8/5			
			Drilling: introduction, tools for drilling, classification of drills, twist drills, drill size and specifications, tipped drills, type of drilling machines-portable drilling machine.	ME4MPW09D150523L35					9/5			
			Bench drilling machine, right drilling machine, radial drilling machine, universal drilling machine,	ME4MPW09D150523L36			Use of sharp tip of grater to make hole in Potato to understand the concept of drilling.		12/5			
29- 31May	3	IV	Multisided drilling machine.Drilling machines operations,time estimation for drilling.	ME4MPW09D150523L37				Hazra ch. 11, p. 397-406,	15/5			
			Reaming:Introduction, description of reamer, type of reaming operations. Boring: Introduction, types of boring machine. Horizontal boring machine,vertical boring machine,jigmachine,microboring. Boring operations.	ME4MPW09D150523L38					20/5			
			Broaching:Introduction,typeofbroaches,nomenclatureofbroaches.typesofbroachingmachines.	ME4MPW09D150523L39					22/5			
5 June- 5 June			Sessional II									

Sub. Teacher

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CCOEW/ME / 22-23

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof.Yogesh V. Dandekar | Subject: MoM | SEM 4 (2022-23) | Sem:- 4

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	8-10 Mar 2023		1	Types of stresses, strains and stress-strain diagram for brittle & ductile material, elastic limit, Hook's law, modulus of elasticty, rigidity & bulk modulus. FoS, analysis of tapered rod, Composite section, Thermal stress and starin,	students performed tensile tests on different materials, ppt, google classroom	Strength of Materials by R K Bansal, Strength of material by R. S. Khurmi, Pg. No 12-16, 838, & (91)-(107)	ppt	10-Mar-23		
2	20-24 Mar 2023		1	Longitudinal strss &strain, lateral stress & strain, Poisson's ratio, Volumatric stress & strain, uni-axial, bi-axial & tri-axial loading.	NPTEL video	Strength of material by R. S. Khurmi, Pg. No 12-16, 838, & (91)-(107)	NPTEL video	24-Mar-23		
3	27 Mar - 1 Apr 2023		2	SFD & BMD diagrams for different types of beams & loading conditions. Relation between load, SF & BM.	using of MD Solids software to understand SFD BMD concept	Strength of material by R. K. Rajput, Pg. No 206-260	Video from YouTube (Ekeeda)	1-Apr-23		
4	3-7 Apr 2023		2	Theory of pure bending, expression for bending stresses, derivation of bending equation. Section modulus. Shear stresses in beams, concept & derivation of shear stress distribution formula, shear stress distribution diagram for common symetrical sections. Max & avg shear stress	google classroom	Strength of material by R. S. Khurmi, Pg. No344-383	google classroom	4-Apr-23		
5	10-15 Apr 2023		3	Principle planes & stresses, definition of principle planes & stresses, Analytical method for determining stresses of oblique section when member is subjected to direct , Mohr's circle representation of principal stresses.stresses in one plane in mutually perpendicular planes, Analytical method for determining stresses of oblique section when member is subjected to shear stress & direct stresses in one plane in mutually perpendicular planes, volumetric stress & starin with uniaxial, biaxial & triaxial loading. , Bulk modulus, relation between Young's modulus, bulk modulus & modulus of rigidity	google classroom	Strength of material by R. S. Khurmi, Pg. No344-383	padlet	15-Apr-23		
				Sessional -I						
6	17-21 Apr 2023		4	deflection & slope of diffrenet types of beams at different loading conditions. Macaulays method.	students designed different types of beam sand calculated their slope and deflection at various points	Strength of material by R. S. Khurmi, Pg. No 470-489	google classroom	20-Apr-23		
7	1-6 May 2023		4	Torsion of circular shafts Derivation of torsional equation Stregth & rigidity criteria for shafi design Solid & hollow shafl. Equuivalent twisting & bending moment.	google classroom	Strength of material by R. S. Khurmi, Pg. No 653-678	google classroom			

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
8	8-12 May 2023		5	Strain energy & impact loading, definition of strain energy stored in a body when subjected to gradually applied load, Suddenly applied & impact loads. Strain energy stored in bending & torsion. Factor of safety, statastical methods in determining fos. theories of failure. Compound stresses, ecentric axial loading.	students perfomed impact testing to understand the concept of strain enegrgy	Design of machine elements by B.D. Shiwalkar Chp 4, Pg 4.1-4.9	google classroom			
9	15-20 May 2023		5	Short & long column, expression for Euler's & Rankines crippling load. Limitations of Euler's formula.	google classroom	Strength of material by R. S. Khurmi	google classroom			
	7-13 June 2023			Sessional II						

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CCOEW/ME / 22-23

LESSON & TEACHING PLAN : Fluid Mechanics and Hydraulic Machines

Department of Mechanical Enggineering

Faculty Name: Prof. Prasanna Mahankar | Sub: Refrigeration and Air Conditioning | Year : 2022-23 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	20-24 March	4 5	I	Types of fluids, Mass Density, Specific Weight, Specific Gravity	Demo on set up/ Animated Videos	Dr. R. K. Bansal, 9th Edition, Chap.1 and 2, 3, 1-34 and 35-68, 69-100	20/3/23		
				Newton's Law of Viscosity, Dynamic Viscosity,			21/3/23		
				Stroke's Theorem, Surface Tension, Capillarity, Compressibility,			23/3/23		
				Vapour pressure.Introduction of Fluid Kinematics, Types of Flow- steady, unsteady,			24/3/23		
				uniform, non-uniform, laminar, turbulent.			24/3/23		
				TCRT			(23/3/23)		
2	27 March - 1 April	5	I	Fluid Statics :- Pressure, Measurement of pressure using manometers,	Demo on set up/ Animated Videos		27/3/23		
				Hydrostatic law, Pascal's law, Pressure at a point, Total pressure,			28/3/23	28/3/23	
				Centre of pressure, Pressure on a plane (Horizontal, vertical, Inclined) and Curved Surfaces,			27/3/23		

Faculty in Charge

HOD (M.R. Shrikhed)

Dr. Milind Khanapurkar
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Kharghar, Navpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				Archimedes's principle, Buoyancy and stability of floating and submerged bodies, Metacentric height			31/3/23		
							29/3/23		
				TCRT					
3	3 - 8 April	5	II	Numericals on Unit I	Smart Class Room	Dr. R. K. Bansal, 9th Edition, Chap.6, 259-316	1/4/23		
				Numericals on Unit I			3/4/23		
				Introduction to Navier-Stroke's Equation,			5/4/23		
				Euler equation of motion along a stream line,			6/4/23		
				Bernoulli's equation, application of Bernoulli's equation to pitot tube,					
				TCRT			5/4/23	5/4/23	
4	10-15 April	5	II	venturi meter, orifices, orifice meter.		Dr. R. K. Bansal, 9th Edition, Chap.6, 259-316	10/4/23		
				Numericals on Bernoullis Equation			10/4/23		
				Numericals on Bernoullis Equation			11/4/23		
				TCRT			12/4/23		
				Laminar And Turbulent Flow :- Definition, Relation between pressure and shear stresses,			13/4/23		
							15/4/23		

Faculty in Charge

HOD (M.R. Shendkar) 21/5/2023

Dr. Milind Khanapurkar
Principal
Maharshi Kanva Shikshan Sansthan's
Cummins College of Engineering for Women
Nagpur-441116

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
5	17-21 April	5	II			Dr. R. K. Bansal, 9th Edition, Chap. 9 and 10, 387-396, 433-445	17/4/23		
				Turbulent flow and velocity distribution.			18/4/23 18/4/23		
				TCRT			19/4/23		
				Sessional I (24 -28 April)					
6	29-Apr	5	III	Flow Through Pipes :TEL,	ppt		20/4/23		
7	2-6 May	5	III	Siphons, Transmission of power. Dimensional Analysis,		Dr. R. K. Bansal, 9th Edition, Chap. 11 , 465-558	2/5/23		
				Numericals (TCRT)			3/5/23		
				Numericals			3/5/23		
				Dimensional Homogeneity, Rayleigh method			5/5/23		
				~~TCRT~~ TCRT			6/5/23		
8	8 - 12 May	5	III	Buckingham's pi –Theorem.		Dr. R. K. Bansal, 9th Edition, Chap. 18 , 465-558 and 853-944	6/5/23		
				Introduction to Similitude and model testing.			8/5/23		
				Turbo Machine classification, Elements of hydro-electric power plant,			9/5/23		
				Impulse Turbine:- principles of operation, constructional features			12/5/23		
				Velocity Diagram and Analysis, Design parameters,			29/5/23		
				TCRT			10/5/23		

Faculty in Charge

HOD (M.R. Sharma) 31/5/23

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
9	15 -21 May	6	IV	Performance characteristics, Governing. Reaction or pressure Turbine:- principles of operation, Classification ,	Demo on set up/ Animated Videos	Dr. R. K. Bansal, 9th Edition, Chap. 18, 19, 20 , 853-944, 945-992, 993-1000	12/5/23		
				Degree of reaction, comparison over Pelton Turbine, Draft tube, Cavitation in Turbine, Numericals			18/5/23 20/5/23		
				Propeller Turbine, Kaplan Turbine: - Constructional features, Velocity Diagram and analysis,			20/5/23		
				TCRT			20/5/23		
10	22 -26 May	5	VI	Centrifugal pumps:- Principle of operation, Classification Component of Centrifugal Pump	Demo on set up/ Animated Videos		17/5/23		
				Various heads, Velocity triangles and their analysis, NPSH			22/5/23	22/5/23	
				Numericals			23/5/23		
				Cavitation's in pumps, Installation and operation,			23/5/23		
				Performance characteristics, Introduction to selfpriming pumps			23/5/23		
				TCRT			23/5/23		
				Numericals			23/5/23		
				Reciprocating pump : Basic principle, Classification, Main Components, Slip,			24/5/23		
							24/5/23		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
11	29 - 31 May	3		Work Done, Indicator Diagram, Cavitation's, Air vessels,,	Demo on set up/ Animated Videos		29/5/23		
				Numerical			29/5/23		
		Sessional II							

Sub. Teacher

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Faculty in Charge

HOD (M.R. SHORE) 29/5/2023

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CCOEW/MECH / 22-23

Date: 15/ 01 / 2023

LESSON & TEACHING PLAN for Production Planning & Control

Department of Mechanical Department

Faculty Name: Dr. Mahesh Shukla | Sub: Industrial Management | Year : 2022-23 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	23 Jan - 27 Jan	SKILL DEVELOPMENT WEEK											
2	1 feb-7 feb	4	1	Introduction, PPC, Functions		IM Unit 1 ppt 01			INDUSTRIAL engineering & Production Management by Martand Telsang, 228-237				
				objectives of PPC, Production Procedure									
				Production Procedure, Information Requirement of PPC									
				Manufacturing Methods and PPC									
3	8 Feb-14 Feb	4		Manufacturing Methods and PPC									
				Manufacturing Methods and PPC									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Feb			Product Life cycle,									
				Product Design									
				Demand Forecasting									
				Forecasting & Prediction					INDUSTRIAL engineering & Production Management by Martand Telsang 210-227				
4	15 Feb-21 Feb	4	2	Long term and short term forecasting		IM_Unit 2_ppt_01							
				Long term and short term forecasting									
				Time series analysis									
				Least square method									
5	22 feb - 28 Feb	4		exponential smoothening, MA Forecasting									
				Capacity & Process Planning									
				Measures & Measures capacity, Factors influencing effective capacity					INDUSTRIAL engineering & Production Management by Martand Telsang 238-252				
6	06 Mar-10 Mar	4		Factors favouring over capacity and under capacity, aggreg		IM_Unit 3_ppt_01							
				linear programmming approach, MPS									
				Process Planning									
				line balancing									
7	13 Mar-17 Mar	m		MACHINE PLANNING									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Mar		4	Manpower Planning		IM_Unit 4_ppt_01							
				problems on line balancing									
8	18-21 Mar first Sessional	Sessional1											
9	23 Mar -28 Mar	m		inventory control		IM_Unit 4_ppt_01			INDUSTRIAL engineering & Production Management by Martand Telsang 324-354				
				Types of Inventories									
				resons, benefits, costs associated									
				cost relationships,safety stock,									
		4		inventory Models									
10	14 Mar- 19 Mar	4	5	problems on inventory control		IM_Unit 5_ppt_01			INDUSTRIAL engineering & Production Management by Martand Telsang265-284				
				mrp, mrp-1									
				lot size consideration									
11	21 Mar- 26 Mar	4		production controkl									
				loading									
				scheduling									
				sequencing									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	28 Mar- 02 april	4	6	priorty sequencing		IM_Unit 6_ppt_01			INDUSTRIAL engineering & Production Management by Martand Telsang300-323				
				dispatching									
				progressing									
				Problems									
13	04 Apr- 09 April	4		problems									
				problems									
				problems									
				problems									

Sub. Teacher

Ac

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Yashoda College of Engineering for Women
Hingna, Nagpur-441110

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/ME/ 22-23

Date: 15/01/2023

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Dr. Nikhil A. Bhave | Subject: EC2 | SEM: VI (2022-23)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition, No	Link for quiz or poll	GATE/TCRT	Completion Date	Assignment/Tutorial Date	HOD's sign
1	30 Jan- 4 Feb 2023	5	I	**Internal Combustion Engines: Introduction, classification, components of I.C. Engines**	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			30/1		
				working of two stroke and four stroke S.I. and C.I. Engines, valve and port timing diagram					31/1		
				Combustion in S. I. Engine, stages of combustion, ignition lag, detonation					01/2		
				Combustion in C. I. Engine, stages of combustion, delay period, diesel knock				GATE	02/2		
				abnormal combustion in S.I. and C.I. engines, detonation and knocking.				GATE	03/2		
2	6-11 Feb 2023	6	I,II	Fuel injection in I. C. Engines: Fuel supply to S. I. Engine, carburetion,	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			04/2		
				simple carburetor, components, operation, MPFI.					06/2		
				Fuel supply to C. I. Engine, Fuel pump amd fuel injector,Modern Ignition System for S.I. Engines,					07/2		
				Supercharging of SI and CI engines, Introduction to Electric and Hybrid Vehicles					08/2		
				Testing of I. C. Engines:- Performance parameters, measurement of indicated, friction & brake power,				GATE	09/2		
				measurement of speed, fuel & air consumption, calculation of indicated & brake thermal efficiency,				GATE	10/2		
3	13-18 Feb 2023	4	II	volumetric efficiency, relative efficiency and mechanical efficiency,	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			13/2		
				percentage of excess air, Heat balance sheet, exhaust gas calorimeter,					14/2	Assignments	
				exhaust analysis, performance characteristics, factors influencing the performance of I.C. engines,				GATE	15/2		
				Numericals				GATE	16/2		
4	20-24 Feb 2023	6	II,III	Numericals	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition	https://quizizz.com/admin/quiz/5c7ef7e469136a001ac4cbf3/gas-turbine		17/2		
				Numericals on Morse Test					18/2		
				Numericals on Heat Balance Sheet					20/2		
				Gas Turbines:-Ideal cycles isentropic and small stage efficiency,					21/2		
				application of gas turbine pressure losses,				GATE	22/2		
				effect of intercooling, reheat & regeneration,				GATE	23/2		

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5	27 Feb- 4 Mar 2023	5	III, IV	fuel-air ratio, combustion efficiency, performance calculation, open cycle &closed cycle gas turbine plants cogenerations & combined power cycles Axial Flow Turbines Simple turbojet cycle, Tuboprop, Ramjet Pulse Jet Rocket	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition		 GATE GATE	24/2 25/2 26/2 27/2 28/2		
6	6-10 Mar 2023	5	IV	performance parameters like thrust power, propulsive power. Thermal efficiency, propulsive efficiency, overall efficiency, Chemical Rockets, types of propellants and their properties, cryogenic propellant, Numericals Numericals		Thermal Engineering R K Rajput 3rd Edition		 GATE GATE	01/3 02/3 03/3 04/3 05/3		
7	13-18 Mar 2023			**Sessional 1**							
8	20-24 Mar 2023	5	IV,V	Refrigeration: Introduction, definition & unit of refrigeration, COP ,single stage vapour compression refrigeration system effect of subcooling and superheating on COP with Ph and T-S diagram Vapor absorption refrigeration system refrigerants, Ozone depletion	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition		 GATE GATE	20/3 21/3 22/3 23/3 24/3		
9	27 Mar-1 April 2023	4	V	Numericals Numericals **Air conditioning**: Introduction, psychometric properties,	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition		 GATE GATE	27/3 28/3 29/3 30/3		
10	3-7 April 2023	6	V	psychometric properties, psychometric processes psychometric processes Numericals Numericals Split air conditioner, Inverter Air conditioner		Thermal Engineering R K Rajput 3rd Edition		 GATE GATE	01/4 03/4 04/4 5/4 6/4 7/4		
11	10-14 April 2023	5	V	Reciprocating compressors: - Construction and working, isothermal, polytropic & adiabatic compression process work done with and without clearance, P-V diagram volumetric efficiency, effect of clearance, isothermal efficiency efficiency Numericals				 	10/4 11/4 12/4 13/4 14/4		
12	17-21 April 2023	5	V	Principle, operation, Roots blower , vane type screw type , lobe type indicator diagram, work done, Centrifugal compressor: - Principle, operation, parts, velocity **Axial flow compressor**:- Principle, operation, parts, velocity diagrams Numericals	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition		 GATE GATE	17/4 18/4 19/4 20/4 21/4		

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/Mech/ 22-23 | Date: 30/ 1 / 2023

LESSON & TEACHING PLAN for AMT

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar | **Sub: AMT** | **Year : 2022-23** | **Sem:- 6th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
1	30 Jan - 4 Feb	6	1	Non Traditional Machining process	AMT_ME_ppt_01	AMT_ME_V_01	will take examples of product what	Production Technology- R.K.Jain. Ch. 10. pg.342. ch.20. pg.625-633			30/1		
				Need, classification & historical development.	AMT_ME_ppt_02	AMT_ME_V_02	Debut on design terminology				1/2		
				Economics & application of Non-Traditional machining processes.	AMT_ME_ppt_03	AMT_ME_V_03	discuss about various metals				2/2		
				High speed grinding	AMT_ME_ppt_04	AMT_ME_V_04					3/2		
				Hot and Cold machining.	AMT_ME_ppt_05	AMT_ME_V_05	discuss on clamps fixed on wall of			3/2/2023	4/2	4/2	
				Types of machining.	AMT_ME_ppt_06	AMT_ME_V_06							
2	6 Feb - 10 Feb	6	2	Abrasive jet Machining Processess and process parameter and material removal rate.	AMT_ME_ppt_07	AMT_ME_V_07		Production Technology- R.K.Jain. Ch. 11. pg.389.			6/2		
					AMT_ME_ppt_08	AMT_ME_V_08	Discussion on types of joint				7/2		
					AMT_ME_ppt_09	AMT_ME_V_09					8/2		
				ultra sonic machining process and material removal rate.	AMT_ME_ppt_10	AMT_ME_V_10					9/2		
					AMT_ME_ppt_11	AMT_ME_V_11				10/2/2023	10/2		
					AMT_ME_ppt_12	AMT_ME_V_12					11/2		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
3	13 Feb -18 Feb	6	2	Water jet machinig ad process parameters.	AMT_ME_ppt_13	AMT_ME_V_13		Production Technology- R.K.Jain. ch.20. pg.625-633			13/2		
					AMT_ME_ppt_14	AMT_ME_V_14					14/2		
					AMT_ME_ppt_15	AMT_ME_V_15					15/2		
				Abrasive water jet machining and processes parameter and material remo0val rate.	AMT_ME_ppt_16	AMT_ME_V_16					16/2		
					AMT_ME_ppt_17	AMT_ME_V_17				17/2/2023	17/2		
					AMT_ME_ppt_18	AMT_ME_V_18							
4	20 Feb -24 Feb	6	3	Electro-Chemical Machining	AMT_ME_ppt_19	AMT_ME_V_19		Production Technology- R.K.Jain. ch.20. pg.625-633			20/2		
				Electro chemistry of ECM.	AMT_ME_ppt_20	AMT_ME_V_20	See types of weld available				21/2		
				Electrochemical Grinding	AMT_ME_ppt_21	AMT_ME_V_21					22/2		
				Electro Discharge machining.	AMT_ME_ppt_22	AMT_ME_V_22	various examples of accostric				23/2		
				Electro discharge machining process parameter.	AMT_ME_ppt_23	AMT_ME_V_23	Discuss on diagram on pressure			24/2/2023	24/2	24/2	
				Laser Beam machining.	AMT_ME_ppt_24	AMT_ME_V_24							
5	27 Feb - 4 Mar	Anannya Cultural Event											
6	13 Mar - 18 Mar	5	3	Electro beam machining.	AMT_ME_ppt_25	AMT_ME_V_25		Production Technology- R.K.Jain. ch.24. pg.825-1023			13/3		
					AMT_ME_ppt_26	AMT_ME_V_26					14/3		
					AMT_ME_ppt_27	AMT_ME_V_27					15/3		
				Plasma arc machining process, material removal rate.	AMT_ME_ppt_28	AMT_ME_V_28					16/3		
					AMT_ME_ppt_29	AMT_ME_V_29				3/3/2023	17/3		
					AMT_ME_ppt_30	AMT_ME_V_30					18/3		
7	18 Mar -21 Mar			Sessional 1									

Faculty in Charge

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Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
8	23 - 24 Mar	5	3	Stud welding.	AMT_ME_ppt_37	AMT_ME_V_37		Text book of Manufacturing technology Ch. 14 pg.625-633			23/3		
				Solid Phase welding techniques	AMT_ME_ppt_38	AMT_ME_V_38					24/3		
				Ultrasonic welding	AMT_ME_ppt_39	AMT_ME_V_39					25/3		
				Friction welding,	AMT_ME_ppt_40	AMT_ME_V_40							
				Stud welding	AMT_ME_ppt_41	AMT_ME_V_41				10/3/2023	25/3		
				Stud welding.Solid Phase welding techniques such as Ultrasonic	AMT_ME_ppt_42	AMT_ME_V_42							
9	27 Mar -1 April	5	3	Stud welding.	AMT_ME_ppt_43	AMT_ME_V_43		Text book of Manufacturing technology Ch. 14 pg.625-634			27/3		
				Solid Phase welding techniques	AMT_ME_ppt_44	AMT_ME_V_44					28/3	30/3/23	
				Ultrasonic welding	AMT_ME_ppt_45	AMT_ME_V_45					29/3		
				Friction welding,	AMT_ME_ppt_46	AMT_ME_V_46					30/3		
				Stud welding	AMT_ME_ppt_47	AMT_ME_V_47				17/3/2023	1/4		
				Stud welding.Solid Phase welding techniques such as Ultrasonic welding Friction welding	AMT_ME_ppt_48	AMT_ME_V_48							
10	3 Apr -7 Apr	6	4	Friction welding with recent development in Welding.	AMT_ME_ppt_49	AMT_ME_V_49		Text book of Manufacturing technology Ch. 14 pg.625-635			3/4		
					AMT_ME_ppt_50	AMT_ME_V_50					4/4		
					AMT_ME_ppt_51	AMT_ME_V_51					5/4		
				Friction welding with recent development in Welding, Economics and application of Non-Traditional processes for welding.	AMT_ME_ppt_52	AMT_ME_V_52					6/4		
					AMT_ME_ppt_53	AMT_ME_V_53				24/3/23	7/4		
					AMT_ME_ppt_54	AMT_ME_V_54					8/4		

Faculty in Charge

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Maharshi Karve Stree Shikshan Samstha's
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CCOEW/ME / 22-23

LESSON & TEACHING PLAN for Refrigeration and Air Conditioning

Department of Mechanical Enggineering

Faculty Name: Prof. Prasanna Mahankar	Sub: Refrigeration and Air Conditioning	Year : 2022-23	Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	30 Jan - 4 Feb	5	I	Refrigeration: Introduction, unit of refrigeration,	Demo on set up/ Animated Videos	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 4, Page no. 125-193, Vth edition.	30/1/23		
				simple vapour compression refrigeration system,			31/1/23		
				analysis of simple vapour compression refrigeration system,			1/2		
				Refrigeration System: Aqua Ammonia,			2/2		
				Problem			2/2		
				TCRT			3/2		
2	6 to 10 Feb	5	I	Lithium Bromide- Water system, effect of sub cooling,	Video on industry relevance		7/2		
				superheating on coefficient of performance.			7/2	7/2/23	
				Problems			8/2		
				Study of Vapour Absorption,			9/2		
				TCRT			10/2		

Faculty in Charge

HOD

Cummins College of Engineering for Women, Nagpur-441110

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
3	13 to 17 Feb	5	II	Refrigerants – Properties, classification, nomenclature,	Smart Class Room	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 8 and 5, Page no. 294-315, 194-233 Vth edition.	15/2		
				global warming & ozone depletion potential,			15/2		
				Problem			16/2		
				montreal protocol, kyoto protocol, alternate refrigerants.			16/2		
				alternate refrigerants.			16/2		
				TCRT			17/2		
4	20 to 24 Feb	4	II	Hermatic compressors, methods of defrosting.	Demo on actual parts	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 8 and 5, Page no. 294-315, 194-233 Vth edition.	20/2		
				Refrigeration controls. expansion devices,			21/2		
				Unit II: Compound Vapour Compression Refrigeration system			22/2		
				multiple evaporator system:			24/2		
				TCRT			24/2		
5	8-10 Mar	3	III	types of compressor, condenser, evaporator,		Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 15, Page no. 38-76, 450-	8/3		
				Unit III: Air cycle refrigeration its application,			9/3	9/3/23	

Faculty in Charge

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				types of air refrigeration system,		466, Vth edition.	10/3		
				TCRT					
6	13-17 Mar, ~~20-24~~ Mar	~~4~~ 5	III	thermoelectric refrigeration, steam jet refrigeration.	ppt		13/3		
				vortex tube,	ppt		14/3		
				Unit IV : Cryogenics: Introduction,			15/3		
				TCRT	ppt		~~17~~		
7	20-24 Mar, ~~27Mar -1 April~~	~~5~~ 4	IV	Joules Thomson coefficient, inversion curve, methods of liquefaction of air with analytical treatment.	ppt/learning videos	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 14, Page no. 422-449, Vth edition.	23/3, 24/3		
				application of cryogenics, cascade system,			27/3		
				Numerical			28/3		
				Unit V : Introduction to psychometric properties and processes of air.			29/3	29/3/23	
				TCRT					
8	27 Mar - 1 April, ~~3-7~~ April	5	IV	Classification of air conditioning systems, Applications of psychometry to various air conditioning systems,	Assignment and problems of surrounding	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 14, Page no. 422-449, Vth edition.	29/3		
				Unit V : RSHF, ESHF, GSHF,			3/3		
				Problem			3/4		
				Problem			4/4		

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No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
				TCRT			3/4		
9	3-7 April ~~10-15~~ April	5	V	air washers, air coolers. Unit VI: Air Transmission & Distribution: Principle of air distribution types of grilles & diffusers & their selection criteria, air filtration, types of air filters, distribution of air through ducts, TCRT	Assignment and problems of surrounding	Refrigeration and Air Conditioning, R.S.Khurmi, Chap.16 and 18, Page no. 467-533, 549-596, Vth edition.	6/4 7/4 10/4 11/4 12/4		
10	10-15 April ~~17-21~~ April 17-21 April	5	VI	pressure losses in ducts, methods of duct design, duct friction chart, air conditioning controls *TCRT*	Live Problem	Refrigeration and Air Conditioning, R.S.Khurmi, Chap.16 and 18, Page no. 467-533, 549-596, Vth edition.	13/4 17/4 18/4 19/4 20/4		
		Sessional II							

Sub. Teacher

AC

HOD

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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CCOEW/Mech/ 22-23 | Date: 30/ 1 / 2023

LESSON & TEACHING PLAN for AMT

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar | **Sub: AMT** | **Year : 2022-23** | **Sem:- 8th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
1	30 Jan - 4 Feb	6	1	Non Traditional Machining process	AMT_ME_ppt_01	AMT_ME_V_01	will take examples of product what	Production Technology- R.K.Jain. Ch. 10. pg.342. ch.20. pg.625-633			30/1		
				Need, classification & historical development.	AMT_ME_ppt_02	AMT_ME_V_02	Debut on design terminology				1/2		
				Economics & application of Non-Traditional machining processes.	AMT_ME_ppt_03	AMT_ME_V_03	discuss about various metals				2/2		
				High speed grinding	AMT_ME_ppt_04	AMT_ME_V_04					3/2		
				Hot and Cold machining.	AMT_ME_ppt_05	AMT_ME_V_05	discuss on clamps fixed on wall of			3/2/2023	4/2	4/2	
				Types of machining.	AMT_ME_ppt_06	AMT_ME_V_06							
2	6 Feb - 10 Feb	6	2	Abrasive jet Machining Processess and process parameter and material removal rate.	AMT_ME_ppt_07	AMT_ME_V_07		Production Technology- R.K.Jain. Ch. 11. pg.389.			6/2		
					AMT_ME_ppt_08	AMT_ME_V_08	Discussion on types of joint				7/2		
					AMT_ME_ppt_09	AMT_ME_V_09					8/2		
				ultra sonic machining process and material removal rate.	AMT_ME_ppt_10	AMT_ME_V_10					9/2		
					AMT_ME_ppt_11	AMT_ME_V_11				10/2/2023			
					AMT_ME_ppt_12	AMT_ME_V_12							
3	13 Feb -18 Feb	6	2	Water jet machinig ad process parameters.	AMT_ME_ppt_13	AMT_ME_V_13		Production Technology- R.K.Jain. ch.20. pg.625-633			13/2		
					AMT_ME_ppt_14	AMT_ME_V_14					14/2		
					AMT_ME_ppt_15	AMT_ME_V_15					15/2		
				Abrasive water jet machining and processes parameter and material remo0val rate.	AMT_ME_ppt_16	AMT_ME_V_16					16/2		
					AMT_ME_ppt_17	AMT_ME_V_17				17/2/2023	17/2		
					AMT_ME_ppt_18	AMT_ME_V_18					18/2	18/2	

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4	20 Feb -24 Feb	6	3	Electro-Chemical Machining	AMT_ME_ppt_19	AMT_ME_V_19		Production Technology- R.K.Jain. ch.20. pg.625-633			20/2		
				Electro chemistry of ECM.	AMT_ME_ppt_20	AMT_ME_V_20	See types of weld available				21/2		
				Electrochemical Grinding	AMT_ME_ppt_21	AMT_ME_V_21					22/2		
				Electro Discharge machining.	AMT_ME_ppt_22	AMT_ME_V_22	various examples of eccentric weld.				23/2		
				Electro discharge machining process parameter.	AMT_ME_ppt_23	AMT_ME_V_23	Discuss on diagram on pressure vessel			24/2/2023	24/2		
				Laser Beam machining.	AMT_ME_ppt_24	AMT_ME_V_24					25		
5	27 Feb - 4 Mar	**Anannya Cultural Event**											
6	13 Mar - 18 Mar	5	3	Electro beam machining.	AMT_ME_ppt_25	AMT_ME_V_25		Production Technology- R.K.Jain. ch.24. pg.825-1023			13/3		
					AMT_ME_ppt_26	AMT_ME_V_26					14/3		
					AMT_ME_ppt_27	AMT_ME_V_27					15/3		
				Plasma arc machining process, material removal rate.	AMT_ME_ppt_28	AMT_ME_V_28					16/3		
					AMT_ME_ppt_29	AMT_ME_V_29				3/3/2023	17/3	17/3	
					AMT_ME_ppt_30	AMT_ME_V_30							
7	18 Mar -21 Mar	Sessional 1											
8	23 - 24 Mar	5	3	Stud welding.	AMT_ME_ppt_37	AMT_ME_V_37		Text book of Manufacturing technology Ch. 14 pg.625-633			23/3		
				Solid Phase welding techniques	AMT_ME_ppt_38	AMT_ME_V_38					24/3		
				Ultrasonic welding	AMT_ME_ppt_39	AMT_ME_V_39					25/3		
				Friction welding,	AMT_ME_ppt_40	AMT_ME_V_40					26/3		
				Stud welding	AMT_ME_ppt_41	AMT_ME_V_41				10/3/2023	27/3		
				Stud welding.Solid Phase welding techniques such as Ultrasonic welding,Friction welding,	AMT_ME_ppt_42	AMT_ME_V_42							

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9	27 Mar -1 April	5	3	Stud welding.	AMT_ME_pp t_43	AMT_ME_V _43		Text book of Manufacturing technology Ch. 14 pg.625-634			28/3	
				Solid Phase welding techniques	AMT_ME_pp t_44	AMT_ME_V _44					29/3	
				Ultrasonic welding	AMT_ME_pp t_45	AMT_ME_V _45					30/3	
				Friction welding,	AMT_ME_pp t_46	AMT_ME_V _46					31/3	
				Stud welding	AMT_ME_pp t_47	AMT_ME_V _47				17/3/2023	1/4	
				Stud welding.Solid Phase welding techniques such as Ultrasonic welding,Friction welding,	AMT_ME_pp t_48	AMT_ME_V _48						
10	3 Apr -7 Apr	6	4	Friction welding with recent development in Welding.	AMT_ME_pp t_49	AMT_ME_V _49		Text book of Manufacturing technology Ch. 14 pg.625-635			3/4	
					AMT_ME_pp t_50	AMT_ME_V _50					4/4	
					AMT_ME_pp t_51	AMT_ME_V _51					5/4	
				Friction welding with recent development in Welding, Economics and application of Non-Traditional processes for welding.	AMT_ME_pp t_52	AMT_ME_V _52					6/4	
					AMT_ME_pp t_53	AMT_ME_V _53				24/3/23	7/4	
					AMT_ME_pp t_54	AMT_ME_V _54						
11	10 Apr - 15 Apr	5	5	Advance casting process: Metal mould casting, continuous casting, squeeze casting .	AMT_ME_pp t_55	AMT_ME_V _55		Production Technology- R.K.Jain. Ch. 4. . pg.125-183			10/4	
					AMT_ME_pp t_56	AMT_ME_V _56					11/4	
					AMT_ME_pp t_57	AMT_ME_V _57					12/4	
				Vacuum mould casting, evaporative pattern casting, ceramic shell casting, centrifugal casting, slush casting.	AMT_ME_pp t_58	AMT_ME_V _58					13/4	
					AMT_ME_pp t_59	AMT_ME_V _59				7/4/2023	14/4	
					AMT_ME_pp t_60	AMT_ME_V _60					15/4	
12	17 Apr -21 Apr	6	5	ceramic shell casting, centrifugal casting, slush casting.	AMT_ME_pp t_61	AMT_ME_V _61		Production Technology- R.K.Jain. Ch. 4. . pg.125-184			17/4	
					AMT_ME_pp t_62	AMT_ME_V _62					18/4	
					AMT_ME_pp t_63	AMT_ME_V _63					19/4	
				slush casting and various casting techniques.	AMT_ME_pp t_64	AMT_ME_V _64					20/4	
					AMT_ME_pp t_65	AMT_ME_V _65				14/4/2023	21/4	
					AMT_ME_pp t_66	AMT_ME_V _66						
13	24 Apr - 29 Apr	Sessional II										

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CCOEW/MECH / 22-23

Date: 15/ 01 / 2023

LESSON & TEACHING PLAN for Industrial Management

Department of Mechanical Department

Faculty Name: Dr. Mahesh Shukla | Sub: Industrial Management | Year : 2022-23 | Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	23 Jan - 27 Jan	SKILL DEVELOPMENT WEEK											
2	1 feb-7 feb	4	1	Principles of management,Concepts of management		IM_Unit I_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 1 to 110				
				development of scientific management									
				principles of Fredric W. Taylor principles of Henry Fayol & functions such as planning, organizing									
				principles of Fredric W. Taylor principles of Henry Fayol & functions such as planning, organizing									
				staffing, leading, motivating,communicating, controlling									
	8 Feb-14			decision making, span of control,									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	[illegible] Feb	4		delegation of authority									
4	15 Feb-21 Feb	4	2	Personal management, meaning, functions of personal management		IM_Unit 2_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 123 to 200				
				manpower planning,									
				selection,arbitration, collective bargaining									
				wages & salary administration,									
				labor welfare, training,									
				trade unions, Trade union act									
				Labor Legislation									
5	22 feb - 28 Feb	4		Marketing management, Definition, selling									
				modern concept of marketing,market research, marketing mix									
6	06 Mar-10 Mar	4		new product development,		IM_Unit 3_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 255 to 294				
				product life cycle,									
				new product launching									
				sales promotion									
				pricing, channels of distribution									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	13 Mar-17 Mar	m		advertising, market segmentation									
			4	Financial management, Sources of finance,,financing organ		IM_Unit 4_ppt_01							
				types of capita,elements of costs									
8	18-21 Mar first Sessional	Sessional1											
9	23 Mar -28 Mar	m		allocation of indirect expenses		IM_Unit 4_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 204 to 245				
				cost control, break even analysis									
				budgets & budgetary control,									
				equipment replacement policy, make or buy analysis,									
10	14 Mar- 19 Mar	4		balance sheet, ratio analysis, profit & loss statement.									
			5	Plant management, Plant location,		IM_Unit 5_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 372 to 385				
				plant layout, Material handling objectives									
				principles & selection of material handling equipments types									
11	21 Mar- 26 Mar	4		Industrial safety, causes & cost of accidents									
				accident biorhythms,safety programs,									
				job, batch & process type of production									
				philosphy of six sigma, approaches to quality improvement									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	28 Mar- 02 april	4	6	Recent treads in production and operation management like Lean Manufacturing,Lean Manufacturing		IM_Unit 6_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 330 to 385				
				Retail Management									
				World Class Manufacturing, Retail Management									
				Supply Chain Management,									
13	04 Apr- 09 April	4		Value Engineering,Re-engineering,									
				Reverse Engineering, Business Process Re-engineering									
				Quality Circle,Just in Time (JIT),									
				Kaizen,Poka Yoke.									

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CCOEW/ MECH / 22-23

Date: 24 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Manufacturing Processes (ME304T) | SEM -ODD (2022-23) | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	29 August-3 Sept	4	1	Introduction to casting. Pattern and it's types.	ME304MPW01D290822L01	MP_ME_ppt_01	MP_ME_V_01	Activity of pouring wax and pouring of water for ice making	1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234]	29/8				
				Pattern making and Materials for pattern	ME304MPW01D300822L02	MP_ME_ppt_01				1/9				
				Pattern making allowances and Color codes	ME304MPW01D010922L03	MP_ME_ppt_01				2/9				
				Core making and types of core. Core material & its properties.	ME304MPW01D010922L04	MP_ME_ppt_01				2/9				
2	5-9 Sept.	4	1	Moulding and it's types like sand moulding.	ME304MPW02D050922L05	MP_ME_ppt_01	MP_ME_V_02	Activity for (sand and clay) moulding	1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234]	3/9				
				Sand composition, Moulding sand properties.	ME304MPW02D050922L06	MP_ME_ppt_01								
				Moulding machines, Shell moulding, CO2 moulding.	ME304MPW02D050922L07	MP_ME_ppt_01	MP_ME_V_03			7/9				
				Gating System and Elements of gating systems	ME304MPW02D050922L08	MP_ME_ppt_01				8/9				
3	12-17 Sept.	4	1	Gating design. Pouring equipments, Riser design,Sand mould casting	ME304MPW03D120920L09	MP_ME_ppt_02				10/9	13-Sep			
				Melting furnaces -Types. Electric furnace, Induction furnace,Cupola construction &	ME304MPW03D120920L10	MP_ME_ppt_02								
				Types of Casting Processes, Special casting processes such as investment Casting	ME304MPW03D120920L11	MP_ME_ppt_03	MP_ME_V_05			29/9				
				Centrifugal casting and types, Slush and Die Casting.	ME304MPW03D120920L12	MP_ME_ppt_03	MP_ME_V_06							
4	19-23Sept.	4	2	Introduction to metal Joining	ME304MPW03D260920L13	MP_ME_ppt_03			1) Manufacturing Science - Ghosh & Malik [2) Workshop Technology (Volume I)- Hajra Chaudhary 3)Manufacturing Technology- P.N.Rao	27/1				
				Arc Welding Processes, Electrodes, weldability of Metals.	ME304MPW03D260920L14	MP_ME_ppt_03				29/9				
				Welding equipments. Fixtures, Gas Welding Processes.	ME304MPW03D260920L15	MP_ME_ppt_03								
				TIG Welding, MIG Welding, Solid state welding.	ME304MPW03D260920L16	MP_ME_ppt_04				7/10				

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CCOEW/ MECH / 22-23

Date: 24 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | **Subject:** Manufacturing Processes (ME304T) | **SEM -ODD (2022-23)** | **Sem:- III**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
5	26 Set-1 Oct	4	2	Thermit welding, Electroslag welding,Resistsnce Welding.	ME304MPW05D260922L17	MP_ME_ppt_04				6/10	29-Sep			
				Plasma Arc welding and Electron Laser Beam welding.	ME304MPW05D260922L18	MP_ME_ppt_04				10/10				
				Weld: Inspection, Defects in various joints and their remedies.	ME304MPW05D260922L19	MP_ME_ppt_04								
				Joint through Adhesive – classification of adhesive,	ME304MPW05D260922L20	MP_ME_ppt_04				11/10				
6	3-7 Oct.	4	2, 3	types of adhesive, applications	ME304MPW05D031022L21	MP_ME_ppt_05	MP_ME_V_09	Analysis of forming processes used for house hold	1) Production Technology -R. K. Jain 2) Production Engg. - P.C Sharma 3)Non-Conventional Manufacturing Processes, H.S. Shan, 4) Soft notes from IIT Kharagpur	4/11				
				Introduction to Forming Process for metals	ME304MPW05D031022L22	MP_ME_ppt_05	MP_ME_V_10			4/11				
				Mechanics of forming process,	ME304MPW05D031022L23	MP_ME_ppt_05	MP_ME_V_11	Activity to understand extrusion		9/11				
				Rolling, Forging, Extrusion, Drawing,	ME304MPW05D031022L24	MP_ME_ppt_05	MP_ME_V_12			05/11				
7	10-12 Oct	4	3	Determination of Rolling pressure and roll specification force, drive force and torque,	ME304MPW07D101022L25	MP_ME_ppt_05			1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)-Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	8/11				
				Drawing and it's types	ME304MPW07D101022L26	MP_ME_ppt_05								
				Rolling, Forging, Extrusion, Drawing,	ME304MPW07D101022L27	MP_ME_ppt_05	MP_ME_V_13			22/11				
				Determination of Rolling pressure and roll specification force, drive force and torque,	ME304MPW07D101022L28	MP_ME_ppt_05								
8	13-20 Oct			Sessional - I										
9	24-28Oct			Diwali Vacation										
10	1-5 Nov	4	3, 4	Drawing and it's types	ME304MPW10D11122L28	MP_ME_ppt_06			1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)-Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	23/11				
				Introduction to Sheet metal working	ME304MPW10D11122L29	MP_ME_ppt_06								
				Types of sheet metal working processes	ME304MPW10D11122L30	MP_ME_ppt_06	MP_ME_V_14			25/11				
				Classification and types of presses	ME304MPW10D11122L31	MP_ME_ppt_06								

Faculty

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CCOEW/ME / 22-23 | Date: 29 /8 / 2022

LESSON & TEACHING PLAN for Engineering Thermodynamics

Department of Mechanical Enggineering

Faculty Name: Prof. Prasanna Mahankar | Sec: A | Year : 2022-23 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Activity, link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	29 Aug to 3 Sept	4	I	Introduction to Thermodynamics:	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 1 & 2, Page 1-41		29/8/22		
				Basic concepts of Thermodynamics, Systems and its forms,			30/8/22		
				Property, State, Process, Cycles, Thermodynamics equilibrium,			1/9/22		
				temperature, Zeroth law of thermodynamics,			2/9/22		
				Problem			3/9/22		
2	5 to 9 Sept.	3	I	Introduction to First law of thermodynamics	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 2&3, Page 26 - 69				
				Energy transfer, Heat and Work,					
				Non-mechanical form of work.					
				Mechanical form of work,					

Faculty in Charge

HOD
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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Activity, link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	12 to 17 Sept	5	I	Ideal Gas: Gas laws-Boyle's law, Charle's law, Avagadro's law, process on P-V Diagram.	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 3 & 4, Page 41 - 86		6/9/22		
				Calculation of Heat transfer, Work done, Change in Internal Energy and Enthalpy			17/9/22		
				Equation of state, Specific Heat, Universal gas constant,			21/9/22		
				Problem			22/9/23		
				Constant pressure, Constant volume, Isothermal, Isentropic and Polytropic			23/9/22		
4	19 to 23 Sept	5	II	Numericals on Heat and Work	CP Arora, Thermodynamics, Chap. 4 & 5, page 105-221, Engineering Thermodynamics, P. K. Nag, Chap. 5, Page 87 -112		26/9/22		
							27/9/22		
				Unit II: First law of Thermodynamics for Closed System undergoing a process			27/9/22	27/9/22	
				Unit II: First law of Thermodynamics for Closed System undergoing a process			29/9/22		
				cycle (Control Mass System)			1/10/22		
				First Law to Open System (Control Volume System),			3/10/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Activity, link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
5	26 Sept. to 1 Oct.	5	II	Steady Flow process	CP Arora, Thermodynamics, Chap. 4 & 5, page 105-221, Engineering Thermodynamics, P. K. Nag, Chap. 5, Page 87 -112		4/10/22		
				Steady Flow process apply to Nozzle, Turbine, Compressor,			6/10/22		
				Steady Flow process apply to Pump, Boiler, Throttling Device, Heat Exchanger.			7/10/22		
				Problems			10/10/22	10/10/22	
				Problems			2/11/22		
				Problems			3/11/22		
6	3 to 7 Oct.	4	III	Unit III :- Second Law of Thermodynamics:- Introduction, Thermal Energy Reservoirs,	CP Arora, Thermodynamics, Chap. 6, page 231-305, Engineering Thermodynamics, P. K. Nag, Chap. 6, 7 & 8 Page 117 -225		4/11/22		
				Kelvin-Plank and Clausius Statements,			7/11/22		
				Kelvin-Plank and Clausius Statements,			8/11/22		
				Heat Engine, Refrigerator, Heat Pump,			9/11/22		
				Problems			10/11/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Activity, link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
MID TERM EXAMINATION									
7	17 to 22 Oct.	5	III	Perpetual Motion Machine I and II, Carnot Cycle,	CP Arora, Thermodynamics, Chap. 6, page 231-305, Engineering Thermodynamics, P. K. Nag, Chap. 6, 7 & 8 Page 117 -225		10/11/22		
				Thermodynamic Temperature scale. Entropy: Clausius Inequility,			11/11/22		
				Problem			14/11/22		
				Entropy, Principle of increase of Entropy,			14/11/22		
				Entropy, Principle of increase of Entropy,			15/11/22		
				Change in Entropy for different Thermodynamics Processes with T-S Diagram			15/11/22		
8	31 Oct to 5 Nov	5	IV	Reversible and Irreversible Processes,	CP Arora, Thermodynamics, Chap. 3, page 55-96, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314		16/11/22		
				Availibility			17/11/22		
				Unit IV Properties of Steam: - Sensible Heat, Latent Heat, Critical State, Triple Point, Wet Steam			18/11/22		
				Phase change process			10/11/22		
				Formulae explaination			21/11/22		
				Problem					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Activity, link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
9	7 to 11 Nov	5	IV	Dry Steam, Superheated Steam, Dryness Fraction,	CP Arora, Thermodynamics, Chap. 3, page 55-96, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314		22/11/22		
				Internal Energy of Steam, External Work Done during Evaporation,			23/11/22		
							24/11/22	24/11/22	
				Problems			25/11/22		
							28/11/22		
10	14 to 19 Nov	6	V	Internal Energy of Steam, External Work Done	CP Arora, Thermodynamics, Chap. 8, page 358-396, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314		29/11/22		
				T-S Diagram, Mollier Chart,			30/11/22		
				Work and Heat Transfer during various Thermodynamic Processes with steam as working fluid,			1/12/22		
							2/12/22		
				Problem			3/12/22		
				Problem			5/12/22		
				Determination of Dryness Fraction using various Calorimeter.	CP Arora,				

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no. Page no,edition. No	Activity, link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	21 to 25 Nov	5	V		Thermodynamics, Chap. 8, page 358-396, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314		6/12/22		
				Problem			7/12/22		
				Problem			8/12/22		
				Problem			9/12/22		
12	28 Nov. 3 Dec	6	V	Unit V:-Vapour Power Cycle:- Introduction, Vapour Carnot Cycle,	CP Arora, Thermodynamics, Chap. 8, page 358-396, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314		10/12/22		
				Problem			12/12/22		
				Rankine Cycle,			13/12/22		
				Problem			14/12/22		
							15/12/22		
							16/12/22		
13	5 Dec to 9 Dec	5	V	Unit V:-Vapour Power Cycle:- Introduction, Vapour Carnot Cycle,	CP Arora, Thermodynamics, Chap. 8, page 358-396, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314		17/12/22		
				Problem			19/12/22		
				Rankine Cycle,			20/12/22		
				Problem			21/12/22		
				Revision -1			22/12/22		
				Revision - 2			23/12/22		
16		Sessional II							

Faculty in Charge

HOD

M.R. Shirsath

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Lokmanya College of Engineering for Women
Kalyan, Nagpur-441110.

Lab Practicals Plan

SESSION: 2022-23

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. P. S. Mahankar	Subject: HT (Pr)	V Sem	Department: MECH			No. of Batches: 01	
		Batch # 1					

PR	Name of experiment	Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark	Principal
P1	Determination of thermal conductivity of metal rod	16 Aug. 22	23/8/22				
P2	Determination of temperature distribution of heat transfer plate from a fin under (a) Forced convection (b)Free convection	23 Aug. 22	30/8/22				
P3	To determine heat transfer coefficient in forced convection.	30 Aug. 22	06/9/22				
P4	Determination of Stephen-Boltzmann constant	6 Sept. 22	11/10/22				
P5	Determination of condensation heat transfer in a film wise & drop wise nodes.	13 Sept. 22	15/11/22				
P6	To determine heat transfer rate, overall heat transfer coefficient and effectiveness of parallel and counter flow heat exchanger	27 Sept. 22	6/12/22				
P7	To determine heat transfer coefficient in natural convection for horizontal cylindrical bar.	4 Oct. 22	29/9/22				
P8	Study of heat pipes.	11 Oct. 22	—				
P9	~~To study heat transfer enhancement due to increase in turbulence~~ Virtual lab experiment	18 Oct. 22	29/11/22				

LAB INCHARGE

HOD-ME

Dr. Milind Khanapurkar
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Nagpur-441110.

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/ME/ 22-23

Date: 8/08/2022

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar						Subject: Heat Transfer		SEM: V (2022-23)		
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
1	8 - 12 Aug 22	3	I	Introduction to subject, CO PO Explaination		Heat & Mass Transfer by R.K. Rajput. Ch. 1 & 2, Page 1-24, 27-37, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	8/8/22		
				Introduction to basic modes of heat transfer, conduction, convection & radiation.	http://htv-au.vlabs.ac.in/Heat_T			17/8/22		
				Laws of heat transfer & conservation of energy requirement.				17/8/22		
2	17 - 20 Aug 22	4	I	General heat conduction equation in cartesian, Cylindrical and Spherical		Heat & Mass Transfer by R.K. Rajput, Ch. 2, Page 35-132, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	18/8/22		
				One dimensional steady state heat conduction equation for the plane wall,				23/8/22	17/8/22	
				cylinder and sphere,				23/8/22		
				overall heat transfer coefficient.				24/8/22		
3	22 - 26 Aug - 22	4	I	Thermal resistance of composite structure,		Heat & Mass Transfer by R.K. Rajput, Ch. 2, Page 142-200, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	25/8/22		4/9/2022
				Numerical				26/8/22		
				Numerical				29/8/22		
				contact resistance, variable thermal conductivity.				1/9/22		
				Unit 2 : Conduction with internal heat generation for plane wall,		Heat & Mass		2/9/22		
				cylinder and sphere.				3/9/22		

Faculty in Charge

HOD

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Kharga, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
4	29 Aug - 3 Sept 22	4	II	Numerical		Transfer by R.K. Rajput, Ch. 2, Page 203-250, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	5/9/22		
				Numerical				6/9/22		
				.				.		
5	5 - 9 Sept. 22	3	II	Extended surface, types of fins. Fins of uniform cross section area, temperature distribution, heat transfer rate,		Heat & Mass Transfer by R.K. Rajput, Ch. 4, Page 290-336, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	6/9/22		
				fin efficiency & effectiveness.				7/9/22		
								7/9/22		
6	12 - 16 Sept. 22	4	III	Numerical	http://htv-au.vlabs.ac.in/heat-	Heat & Mass Transfer by R.K. Rajput, Ch.7, Page 373 -492, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	8/9/22		2nd 20/09/2022
				Numerical				8/9/22		
				Unsteady state heat transfer, lumped heat capacity analysis,				12/9/22		
								16/9/22		
				Heisler's charts. Biot Number, Fourier's Number & its significance. Numerical Tutorial, Approximate Solution to unsteady HT						
7	17 - 23 Sept 22			**Sessional I**						

Faculty in Charge

HOD

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Ummeed College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
8	26 Sept - 1 Oct. 22	4	III	Unit III Forced and Free Convection		Heat & Mass Transfer by R.K. Rajput, Ch.7 & 8, Page 373 -492,	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	26/9/22		
				Concept of hydrodynamics & thermal boundary layer thickness,	http://htv-au.vlabs.ac.in/heat-			27/9/22		
				local and average heat transfer coefficient.				29/9/22		
				Empirical Relations for internal and external flows				1/10/22		
9	3- 7 Oct 22	3	III & IV	Laminar and Turbulent flow conduit		Heat & Mass Transfer by R.K. Rajput 506-530, 539-570,5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	3/10/22		
				Flow of high, moderate & low Prandtl number,				6/10/22		
								7/10/22		10/11/2022
				fluid flow over a flat plate.				10/10/22		
								12/10/22		
10	10 - 15 Oct 22	5	IV & V	Free Convection, Grashoff's number, Rayleigh number,		Heat & Mass Transfer by R.K. Rajput 539-570, 673-687, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	13/10/22		
				flow over horizontal and vertical plate, Empirical relations	http://htv-au.vlabs.ac.in/heat-thermodynamics/Black_Body_Radiation/			14/10/22	14/10/22	
				Numerical				15/10/22		10/11/2022
				Numerical	http://htv-au.vlabs.ac.in/heat-			17/10/22		
				Numerical				19/10/22		

Faculty in Charge

HOD

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
11	17 -21 Oct 22	4	V	Introduction to cooling of electronics devices Heat trnasfer enhancement using nano fluids Pool boiling curve & regimes of pool boiling, Film & Drop wise condensation, transfer		Heat & Mass Transfer by R.K. Rajput Page 688-764, 5th Edition		20/10/22 24/10/22 31/10/22 2/11/22		
12	31 Oct - 5 Nov 22	5	V	Unit V: Radiation, spectrum of radiation, black body radiation, radiation intensity, laws of radiation-Kirchoffs, Co-sine law, Plancks, Weins displacement law, Stefan Boltzmann & Lamberts Emissivity, Absorbtivity, Transmissivity, Reflectivity, Radiosity, Emissive power, Irradiation.		Heat & Mass Transfer by R.K. Rajput 574-669,5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	3/11/22 4/11/22 5/11/22 7/11/22 9/11/22		
13	7 -11 Nov 22	4	V	Radiation network, , shape factor & its laws, Radiation exchange between parallel plate cylinder & sphere Numerical Numerical		Heat & Mass Transfer by R.K. Rajput 574-669,5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	10/11/22 11/11/22 14/11/22 16/11/22	14/11/22	24/01/2023
14	14-19 Nov 22	5	V	Heat exchanger : Classification, overall heat transfer coefficient, fouling factor, LMTD & effectiveness, Numerical Numerical NTU method of heat exchanger analysis for parallel,		Heat & Mass Transfer by R.K. Rajput 574-669,5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	17/11/22 18/11/22 19/11/22 21/11/22 23/11/22		

Faculty in Charge

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Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
15	21-25 Nov. 22	4	V	Numerical Counter flow & cross flow arrangement, Numerical Numerical Introduction to compact heat exchanger, Heat Pipe,		Heat & Mass Transfer by R.K. Rajput 574-669,5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	23/11/22 24/11/22 25/11/22		6/10/2022
16										

Faculty in Charge

HOD

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/Mech/ 22-23

Date: 08/ 8 / 2022

LESSON & TEACHING PLAN for DME

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar | Sub: DME | Year : 2022-23 | Sem:- 5

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
1	08 Aug - 13 Aug	6	1	Introduction to mechanical engineering design,	DME_ME_ppt_01	DME_ME_V_01	will take examples of	Machine Design By Khurmi Gupta ch.1.pg.1-8			8/8		
				Design aspets	DME_ME_ppt_02	DME_ME_V_02	Debut on design				9/8		
				Material properties and their uses in design.	DME_ME_ppt_03	DME_ME_V_03	discuss about various metals				10/8		
				basic principal of machine design, modes of failure, I.S.codes, preffered series and numbers.	DME_ME_ppt_04	DME_ME_V_04					11/8		
				Design of knuckle joint.	DME_ME_ppt_05	DME_ME_V_05	discuss on clamps fixed on wall of	Machine Design By Khurmi Gupta ch.9.pg.281-340		13/8/22	12/8	12/8	
				problems on Knuckle joint.	DME_ME_ppt_06	DME_ME_V_06					13/8		
2	16 Aug - 20 Aug	6	1	Design of socket and spigot type cotter joints.	DME_ME_ppt_07	DME_ME_V_07		Machine Design By Khurmi Gupta ch.9.pg.281-341			16/8		
				Problems on cotter joint.	DME_ME_ppt_08	DME_ME_V_08	Discussion on types of joint				17/8		
				Design of riveted joints, Aesthetic and ergonomics consideration in design.	DME_ME_ppt_09	DME_ME_V_09					18/8		
				Problem on rivetted joints.	DME_ME_ppt_10	DME_ME_V_10		Machine Design By Khurmi Gupta ch.1.pg.8-18			19/8		
				Problem on rivetted joints.	DME_ME_ppt_11	DME_ME_V_11				20/8/2022	20/8		
				Problem on rivetted joints.	DME_ME_ppt_12	DME_ME_V_12					21/8		
			1	Problem on eccentric loaded rivetted joints.	DME_ME_ppt_13	DME_ME_V_13					22/8	22/8	
				Problem on eccentric loaded rivetted joints.	DME_ME_ppt_14	DME_ME_V_14					23/8		

Faculty in Charge

HOD

Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Kharga, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
3	22 Aug - 26 Aug	6	2	Design of bolted Joints.Design procedure	DME_ME_ppt_15	DME_ME_V_15		Machine Design By Khurmi Gupta ch.4.pg.8-17			23/8		
				problem on bolted joint	DME_ME_ppt_16	DME_ME_V_16					24/8		
				problem on bolted joint	DME_ME_ppt_17	DME_ME_V_17				26/8/2022	25/8		
				problem on eccentric loaded bolted joint	DME_ME_ppt_18	DME_ME_V_18							
4	29 Aug -3 Sept	6	2	Design of welded joints under axial and eccentric loading condition.	DME_ME_ppt_19	DME_ME_V_19		Machine Design By Khurmi Gupta ch.4.pg.8-17			29/8		
				Problem on welded joint	DME_ME_ppt_20	DME_ME_V_20	See types of weld				30/8		
				Problem on welded joint	DME_ME_ppt_21	DME_ME_V_21					1/9		
				Problem on axial and eccentric loaded welded joint	DME_ME_ppt_22	DME_ME_V_22	various examples of				2/9		
				Design of cylinder and pressure vessels: Types of pressure vessel.	DME_ME_ppt_23	DME_ME_V_23	Discuss on diagram on	Machine Design By Khurmi Gupta ch.7.pg.224-260		09-03-22	3/9		
				stresses induced in pressure vessel, lame's, clavarino's and bernie's	DME_ME_ppt_24	DME_ME_V_24					3/9		
5	5 Sept-9 Sept	5	2	Problem on Pressure vessel.	DME_ME_ppt_25	DME_ME_V_25					5/9		
				Problem on Pressure vessel.	DME_ME_ppt_26	DME_ME_V_26					6/9		
				Problem on Pressure vessel.	DME_ME_ppt_27	DME_ME_V_27					7/9		
				Problem on Pressure vessel.	DME_ME_ppt_28	DME_ME_V_28					8/9		
				Problem on Pressure vessel.	DME_ME_ppt_29	DME_ME_V_29				09-09-22	9/9		
				Problem on Pressure vessel.	DME_ME_ppt_30	DME_ME_V_30							
6	12 Sept-16 Sept	5	3	Design of shaft for - power transmitting, power distribution under static and fatigue criteria,	DME_ME_ppt_31	DME_ME_V_31	discuss on types of shaft	Machine Design By Khurmi Gupta ch.13.pg.470-508			12/9		
				Problem on Shaft.	DME_ME_ppt_32	DME_ME_V_32					13/9		
				Problem on Shaft.	DME_ME_ppt_33	DME_ME_V_33					14/9		
				Problem on Shaft.	DME_ME_ppt_34	DME_ME_V_34					15/9		
				Problem on Shaft.	DME_ME_ppt_35	DME_ME_V_35				16/9/2022	16/9		
				Problem on Shaft.	DME_ME_ppt_36	DME_ME_V_36					16/9		

Faculty in Charge

HOD

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Hingna, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
7	17 Sept-23 Sept			Sessional I									
8	26 Sept - 1 Oct	5	3	Problem on Shaft.	DME_ME_ppt_37	DME_ME_V_37		Machine Design By Khurmi Gupta ch.23.pg.820-884			26|9		
				Problem on Shaft.	DME_ME_ppt_38	DME_ME_V_38					27|9		
				Design of keys, ASME codes for shaft.	DME_ME_ppt_39	DME_ME_V_39					28|9		
				Problem on Key	DME_ME_ppt_40	DME_ME_V_40					29|9		
				Design of springs: spring material, helical compression, tension springs	DME_ME_ppt_41	DME_ME_V_41		Machine Design By Khurmi Gupta ch.19.pg.620-685		10-01-22	1|10		
				Problem on Helical compression spring	DME_ME_ppt_42	DME_ME_V_42					2|10		
9	3 Oct - 7 Oct	5	3	Problem on Helical compression spring	DME_ME_ppt_43	DME_ME_V_43					3|10	3|10	
				Problem on Helical compression spring	DME_ME_ppt_44	DME_ME_V_44					4|10		
				Problem on Helical compression spring	DME_ME_ppt_45	DME_ME_V_45					5|10		
				Design and problem on Leaf spring	DME_ME_ppt_46	DME_ME_V_46					6|10		
				Problem on Leaf spring	DME_ME_ppt_47	DME_ME_V_47				10-07-22	7|10		
				Problem on Leaf spring	DME_ME_ppt_48	DME_ME_V_48					7|10		
10	10 Oct - 15 Oct	6	4	Design of screw jack.Problems on screw jack.	DME_ME_ppt_49	DME_ME_V_49		Machine Design By Khurmi Gupta ch.17.pg.624-676			10|10		
				Problems on screw jack.	DME_ME_ppt_50	DME_ME_V_50					11|10		
				Problems on screw jack.	DME_ME_ppt_51	DME_ME_V_51					12|10		
				Problems on screw jack.	DME_ME_ppt_52	DME_ME_V_52					13|10		
				Problems on screw jack.	DME_ME_ppt_53	DME_ME_V_53				15/10/22	14|10		
				Problems on screw jack.	DME_ME_ppt_54	DME_ME_V_54					15|10	15|10	

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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CCOE(W/ME/ 22-23

LESSON & TEACHING PLAN for Automobile Engineering

Department of Mechanical Engineering.										
Faculty Name: Prof. Yogesh V. Dandekar				Sub: Automobile Engineering			Year : 2022-23		Sem:- V	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity	Refrence Book - Chapter no. Page no,edition. No	GATE/TCRT	Completion Date	Assignment/ Tutorial Date	AC's sign
1			1	Introduction to the subject and students		Automobile Engg. Vol-1 Kirpal Singh, Page 1 to 73		9/8/22		
				Automobile History & development				12/8/22		
				Chasis Layout & frames				17/8		
				Articulated vehicle, prime movers, hybrid cars				18/8		
				Constructional features of engines, classifcation				19/8		
2			1	Engine constructional features and working		Automobile Engg. Vol-2, Kirpal Singh, Page 1 to 383		23/8		
				Fuel supply system				24/8		
				Disel Injectors and Carburettors				25/8		
				MPFI system and Common rail system				29/8		
				Fuel Injection Pump				01/09		
			1	Lubrication system, requirements, types				02/09		
				Splash & Pressure Lubrication system				05/09		
				Lubrication system components				07/09		
				Cooling System				08/09		
				Forced Cooling, Thermostat, Pressure cap				09/09		
3			2	Necessity & requirements of clutch, types		Automobile Engg Vol-1 Kirpal Singh, Page 28 to 168		26/09		
				centrifugal clutch, fluid clutch				28/09		
				Necessity & principle of transmission				29/09		
				types of transmissionn				03/10		
				Synchromesh Gear Box				06/10		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women
Kirtane, Nagpur-441110

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity	Reference Book - Chapter no. Page no,edition. No	GATE/TCRT	Completion Date	Assignment/ Tutorial Date	AC's sign
				Transfer Box,				06/10		
				gear selector mechanism				07/10		
			2	Propeller Shaft				10/10		
				Hotchkiss drive, Universal joint				12/10		
				Differential box & its necessity				17/10		
				Ger Box trouble shooting				19/10		
				need of brakes & types of brakes				20/10		
4			3	hydraulic & pneumatic brakes,		Automobile Engg. Vol-1, Kirpal Singh, Page 319 to 405		24/10		
				brake system, master cylinder				31/10		
				engine exhaust & electrical brakes				01/11		
				Sessional I						
				Principle of steering system, centre point steering				02/11		
				steering geometry, steering linkages				03/11		
5			4	wheel allignment, power steering		Automobile Engg. Vol-1, Kirpal Singh, Page 170 to 209 & 210 to 265		03/4		
				independent suspension system				04/11		
				telescopic shock absorbers, pneumatic, air springs				04/4		
				Battery construction & working				07/11		
				testing & charging of battery				07/4		
				lighting circuits, horn, wiper				11/11		
7			5	types of tyres, wheels, dimensions,		Automobile Engg. Vol-1, Kirpal Singh, Page 384 to 505 and page 266 to 318		14/4		
				tyre construction & material				16/11		
				factors affecting tyre life				17/4		
				Body & safety considerations				18/4		
				requirement of automobilebody, material, crash worthiness				21/4		
8			6	ABS electronic power steering		Automobile Engg. Vol-1, Kirpal Singh, Page 547 to 585 and 447-461 and 462-484 and Vol 250o-539 and 540-554		23/11		
				steering geometry steering linkages				24/4		
				active suspension system, collision advance				25/11		
				intelligent lighting system, navigation aids				29/4		
				electronic brake distribution system				29/4		

Faculty in Charge

Sub Teacher

HOD

AC

Dr. Milind Khanapurkar
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Hingna, Nagpur-441110

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CCOEW/ME/ 21-22

Date: 20/08/2021

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Nikhil A. Bhave | Subject: ~~Heat Transfer~~ Energy Conversion I | SEM: V (2020-21)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	GATE/TCRT	Completion Date	Assignment/Tutorial Date	HOD's sign
1	08 - 12 Aug 22	5	I	Introduction to layout of thermal power plant, Coal handling system and ash handling systems.	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			08/08		
				Classification of steam generators (i.e. Boilers)					09/08		
				Fire tube boilers and water tube boilerd					10/08		
				high pressure boilers,				GATE	11/08		
				Boiler mountings and accessories.				GATE	12/8		
2	15 -20 Aug 2022	6	I	Principle of steam generation, necessity of water treatment, Performance of steam	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			16/8		
				generators: Evaporation capacity, equivalent evaporation, boiler efficiency and					14/8		
				preparation of Heat balance sheet of boiler.					18/8		
				Numericals					19/8		
				Numericals				GATE	20/8		
				Numericals				GATE	22/8		
3	22-26 Aug 22	4	II	Cogeneration: Introduction to cogeneration,working principle	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			23/8		
				its need, applications.					24/8	Assignments	
				Topping cycle and bottoming cycle				GATE	25/8		
				Numericals				GATE	26/8		
4	29-03 Sept. 22	6	II, III	Numericals	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition	https://testbook.com/objective-questions/mcq-on-steam-power-plants--5eea6a0f39140f30f369e797		29/8		
				Draught and its classification,					30/8		
				calculations for chimney height, chimney diameter & efficie					01/9		
				Condition for maximum discharge and Numericals					02/9		
				Numericals				GATE	3/9		
				Numericals				GATE			
5	05-09 Sept. 22	5	III	Numericals	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			05/9		
				Fluidized bed boiler: Bubbling fluidized bed boilers,					06/9		
				circulating fluidized bed boilers					07/9		
				Steam nozzles: Adiabatic expansion in nozzles,				GATE	8/09		
				maximum discharge, critical pressure ratio				GATE	09/09		
				effects of friction,							

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6	12-16 Sept 2022	5	III	calculation of throat, exit areas and exit velocity of nozzle,		Thermal Engineering R K Rajput 3rd Edition			12-16 Aug		
				Numericals							
				Numericals				GATE			
				Numericals				GATE			
	17-23 Sept			**Sessional 1**					✓		
7	3-7 Oct 22	5	III, IV	Supersaturated flow, Wilson Line.	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			3/10		
				Steam turbines: Working principle of steam turbines,					4/10		
				classification of steam turbines					5/10		
				Turbine Blades				GATE	6/10		
				comparison of impulse and reaction turbine,				GATE	7/10.		
8	10-15 Oct 22	4	III, IV	governing of steam turbines.		Thermal Engineering R K Rajput 3rd Edition			10/10		
				Numericals					11/10		
				Numericals				GATE	12/10		
				Compounding of steam turbines, Energy losses in steam turbines, flow of steam				GATE	13/10		
9	25 -30 Oct 21	6	IV	through turbine blades, reheat factors, velocity diagrams, graphical and analytical	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition	https://quizizz.com/admin/quiz/5feb5ceb53e517001f0a2ba6/thermal-power-plant		25/10		
				methods, work done, thrust and power, dimensions and proportioning of the blades,					26/10		
				steam turbine efficiencies,					27/10		
				condition for maximum efficiencies. (Analytical Treatment)					28/10		
				Numericals				GATE	29/10		
				Numericals				GATE	30/10.		
	24-28 Oct 22			**Diwali Vacations**							
10	1-5 Nov 22	5	IV	Numericals		Thermal Engineering R K Rajput 3rd Edition			02/11		
				Numericals					03/11		
				Treatment on Impulse turbine, Reaction turbine and					04/11		
				two stage impulse turbine				GATE	05/11		
				Steam condensers: Classification of condensers,				GATE	07/11		
11	7-12 Nov 22	5	V	quality and quantity of cooling water required,	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			08/11		
				calculations for surface condenser,					14/11		
				Dalton's law of partial pressure, Numericals					15/11		
				Numericals				GATE	16/11		
				Numericals				GATE	17/11		
12	14-19 Nov 22	4	V	Numericals		Thermal Engineering R K Rajput 3rd Edition			18/11		
				sources of air leakages and air removal					19/11		
				air ejectors.				GATE	21/11		
				Cooling towers: Natural draught				GATE	22/11		
13	21-26 Nov 21			and forced draught cooling towers,					25/11	Submission	
14	28 Nov - 03 Dec 22			cooling ponds					26/11 .		
15	12-Dec			Sessional 2							

6/12/23

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CCOEW/ME/ 21-22

Date: 20/12/2022

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Nikhil A. Bhave | Subject: EC3 | SEM: VII (2022-23)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	GATE/TCRT	Completion Date	Assignment/Tutorial Date	HOD's sign
1	08 - 12 Aug 22	5	I	Reciprocating compressors: - Construction and working, isc	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			08/08		
				compression process, work done with and without clearance					09/08		
				effect of clearance, isothermal efficiency, methods for impro					10/8		
				efficiency, mechanical efficiency, multistage compression, i				GATE	11/8		
				work input.				GATE	12/8		
2	15 -20 Aug 2022	6	I	Roots blower & vane blower: - Principle, operation,	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			16/8		
				parts, indicator diagram, work done, roots efficiency, vanes efficiency. (No analytical treatment							
				expected)					17/8		
				Numericals					18/8		
				Centrifugal compressor:- Principle, operation, parts, velocity diagrams, static & total head					19/8		
								GATE	20/8		
				quantities, work done by impeller, isentropic efficiency, width of impeller and diffuser blades, slip				GATE	22/8		
3	22-26 Aug 22	4	II	factor, pressure coefficient, power input factor.	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			23/8		
				Numerical					24/8	Assignments	
				Axial flow compressor:- Principle, operation, parts,				GATE	25/8		
				velocity diagrams, work done, degree ofreaction,				GATE	26/8		
4	29-03 Sept. 22	6	II	stage efficiency compressor characteristics,	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition	https://testbook.com/objective-questions/mcq-on-compressor--5eea6a1539140f30f369f480		29/8		
				surging, chocking, stalling, polytropic efficiency					30/8		
				Numericals					01/09		
				Numericals					02/09		
				Numericals				GATE	03/09		
				Numericals				GATE	05/09		
5	05-09 Sept. 22	5	III	Internal Combustion Engines: Introduction, classification, components of I.C.Engines,	Green board, Digital Board, Youtube Videos	Thermal Engineering R K			06/09		
				working of two stroke and four stroke S.I. and C.I. Engines, valve and port timing diagram.					07/09		
				Advantages and disadvantages, applications.					08/09		

7/7/23

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				Combustion in I. C. Engines: Combustion in S. I. Engine, stages of combustion, ignition lag, detonation.		Rajput 3rd Edition		GATE	09/09		
				Combustion in C. I. Engine, stages of combustion, delay period, diesel knock, abnormal				GATE	10/09		
6	12-16 Sept 2022	5	III	combustion in S.I. and C.I. engines, detonation and knocking.		Thermal Engineering R K Rajput 3rd Edition	https://www.objectivebooks.com/ic-engines-multiple-choice-questions		13/09		
				Fuel injection in I. C. Engines:					14/09		
				Fuel supply to S. I. Engine, carburetion, simple carburetor, components, operation, MPFI.					15/09		
				Fuel supply to C. I. Engine, air injection system,				GATE	16/9		
				solid injection, fuel pump & fuel injector.				GATE	~~17/9~~		
	17-23 Sept			**Sessional 1**							
7	3-7 Oct 22	5	IV	Testing of I. C. Engines:- Performance parameters, measurement of indicated, friction & brake	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			3/10		
				power, measurement of speed, fuel & air consumption, calculation of indicated & brake thermal					4/10		
				efficiency, volumetric efficiency, relative efficiency and mechanical efficiency,					5/10		
				Numericals				GATE	6/10		
				Numericals				GATE	7/10		
8	10-15 Oct 22	4	IV	percentage of excess air, Heat balance sheet, exhaust gas calorimeter,		Thermal Engineering R K Rajput 3rd Edition			10/10		
				Numericals					11/10		
				exhaust analysis, performance characteristics,				GATE	12/10		
				Numericals	Green board, Digital Board, Youtube Videos			GATE	13/10		
9	25 -30 Oct 21	6	IV	factors influencing the performance of I.C. engines,		Thermal Engineering R K Rajput 3rd Edition			14/10		
				Numericals					15/10		
				performance analysis of single and multi cylinder I. C. engines.					25/10		
				Morse Test					26/10		
				Numericals				GATE	27/10		
				Numericals				GATE	28/10.		
	24-28 Oct 22			**Diwali Vacations**							
10	1-5 Nov 22	5	V	Refrigeration: Introduction, definition & unit of refrigeration, single stage vapour compression		Thermal Engineering R K Rajput 3rd Edition	https://www.texalab.com/prepare.php?dept=104-Mechanical_Engineering&sub=213-RAC&page=5		01/11		
				refrigeration system, effect of subcooling and superheating on COP with P-h and T-S diagram,					02/11		
				Numericals					03/11		
				Numericals				GATE	04/11		
				Numericals				GATE	05/11		
11	7-12 Nov 22	5	V	Numericals	Green board, Digital Board, Youtube Videos	Thermal Engineering R K Rajput 3rd Edition			7/11		
				Numericals					8/11		
				Vapor absorption refrigeration system (concept only),					9/11		
				refrigerants, refrigerants nomenclature,				GATE	10/11		
				air refrigeration systems.				GATE	11/11		

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12	14-19 Nov 22	4	VI	Air conditioning: Introduction, psychrometric properties and processes, human comfort and factors		Thermal Engineering R K Rajput 3rd Edition			12/11		
				Numericals					14/11		
				Numericals				GATE	15/11		
				affecting comfort, Bypass factor, application of Psychrometrics to simple air conditioning systems,				GATE	16/11		
13	21-26 Nov 21			typical summer and winter air conditioning system(concept only),					17/11	Submission	
14	28 Nov - 03 Dec 22			evaporative cooling, working of air washer.					20/11		
15	12-Dec			Sessional 2							

17/11/23

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CCOEW/ME/ 22-23

Date: 08/08/2022

LESSON & TEACHING PLAN
Department of Mechanical Engineering

Faculty Name: Dr. Mahesh Shukla				Sub: Project evaluation and Management								Sem:- V	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Aug -6 Aug			ONLINE SKILL DEVELOPMENT TRAINING									
2	8 - 13 Aug	3	1	Definition & Characteristics of Project Performance Parameters: Time, Cost & Quality.					Narendra Singh; Project Management & Control;		08/08		
				Classification of Projects: Sector based, Investment based, Technology based,							18/08		
				Classification of Projects: Cause based, Need based							18/08		
3	15 - 20 Aug	3	1	Balancing, Modernization,					Narendra Singh; Project Management & Control;		18/08		
				Replacement, Expansion & Diversification.							18/08		
				Project Life Cycle Phases – Concept/Initiation Phase:							24/08		
4	22 - 27 Aug	3	1	Parameters Involved in Project Identification.					Narendra Singh; Project Management & Control;		24/08		
				Sources of New Project Ideas.							24/08		
				Incentives from state & central govt., Import-substitution projects.							29/08		
5	29 Aug - 3 Sep	3	2	Project Conceptualization & Feasibility Analysis Project Definition Phase: Project Formulation & Feasibility					Narendra Singh; Project Management & Control;		29/08		
				Types of Feasibility Studies – Pre-feasibility, Support/Functional Feasibility Study.							29/08		
				Preparation of Project Feasibility Report & Specification; Aspects of Project Feasibility Managerial/Organization:							29/08		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	5- 10 Sept	3	2	Promoters Background, Criteria of Evaluation, Marketing/Commercial:					Narendra Singh; Project Management & Control;		29/08		
				Demand & Supply, Competition, Market Survey, Porter's 5 Forces,							30/08		
				Operational/Technical: Process, Technology, Location, Capacity, Labour, Raw Material & Utility Availability							31/08		
7	12 - 17 Sept	3	2	Financial: Cost of Project, Means of Finance, Financial Projections –					Narendra Singh; Project Management & Control;		02/09		
				Profit & Loss Account, Balance Sheet, Funds Flow Statement, Cash Flow Statement, Schedule of Fixed Assets, Schedule of Term Loans							04/09	17/11	
				Socio-Economic: Socio-Cost Benefit Analysis. Effective Rate of Protection, Domestic Resource Cost.							11/11		
8	17-23 Sept			Sessional Exam 1									
9	26- Sept - 1 Oct	3	3	Project Planning- Development of Project Network; Project Representation;					S. Choudary, Project Management, Tata McGraw Hill		07/09		
				Consistency and Redundancy in Project Networks; Project Scheduling- Basic Scheduling with AO-A Networks;							07/09		
				Project Scheduling with Probabilistic Activity Times.							05/09		
10	3 - 8 Oct	3	3	Planning & Organization Phase: Project Planning, Scheduling & Monitoring,					S. Choudary, Project Management, Tata McGraw Hill		09/09		
				Statement of Works, Project Specifications,							16/11		
				Work Breakdown Structure, Network Analysis & Duration Estimating Network Diagrams							03/10		
11	10 - 15 Oct	3	3	PERT/CPM, Estimate Activity Times					S. Choudary, Project Management, Tata McGraw Hill		04/10		
				Milestone Scheduling. Resource Leveling,							04/10		
				Resource Smoothening, Project Crashing.							7/11		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	17-22 Oct	3	4	Project Cost Estimation: Need, Causes of Cost & Time Overruns.					S. Choudary, Project Management, Tata McGraw Hill		04/10		
				Nature of Cost Estimates, Types of Project Cost Estimates,							4/10		
				Estimation of Manpower & Utilities. Project Budgeting & Control,							4/10		
13	24-29 Oct	3	4	Earned Value Management System: Concept of AC, PV, EV, Variances, etc.					S. Choudary, Project Management, Tata McGraw Hill		06/10		
				Contract Management: Responsibility Sharing Matrix							07/10		
				Types of Contract Payments,							07/10		
14	31 Oct - 5 Nov	3	4	Risk Factors in Contracts – Contractor & Owner					S. Choudary, Project Management, Tata McGraw Hill		07/10		
				Project Management Information System and Control							07/10		
				Management Pitfalls.							07/10		
15	7-12 Nov	3	5	Project implementation & Control Implementation Phase: Activities Involved:					Chas R.B., Aquilno, N.J. and Jacob,F.R., Production and Operations Management: manufacturing and services, Tata McGraw Hill,		10/10		
				Erection & Commissioning, Installation,							12/10		
				Trial Runs & Commencement of Commercial Production.							13/10		
16	14-19 Nov	3	5	Cleanup/Shutdown Phase: Handover to Client,					Chas R.B., Aquilno, N.J. and Jacob,F.R., Production and Operations Management: manufacturing and services, Tata McGraw Hill,		03/11		
				Settlement of Accounts. Project Risk Management,							10/11		
				Responsibility Sharing Matrix,							08/11		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
17	21-25 Nov	3	5	Critical Chain Project Management					Chas R.B., Aquilno, N.J. and Jacob,F.R., Production and Operations Management: manufacturing and services, Tata McGraw Hill.		9/11		
				Critical Path vs Critical Chain,							9/11		
				Concept of Buffers – Project buffer, resource buffer, feeding buffer.							11/11		
	28 Nov - 3 Dec			Sessional Exam II									

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CCOEW/ MECH / 22-23

Date: 04 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Design of Mechanical Drives (BEME705T) | SEM -ODD (2022-23) | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	8-12 August	4	1	Design of Coupling, Introduction to Coupling, Types of shaft coupling.	DMD_ME_ppt_01	DMD_ME_V_01		Machine Design By Khurmi Gupta , V.B Bhandari (330 -370)	2/8				
				Design of flange coupling with numerical	DMD_ME_ppt_01								
				Design of flange coupling with numerical	DMD_ME_ppt_01								
				Design of flange coupling with numerical	DMD_ME_ppt_01								
				Design of flexible bush coupling with numerical	DMD_ME_ppt_01								
2	16 -20 August	5	1	Design of flexible bush coupling with numerical	DMD_ME_ppt_01			Machine Design By Khurmi Gupta , V.B Bhandari (330 - 370)234]	2/8				
				Design of Bearings with introduction and tyes.	DMD_ME_ppt_02	DMD_ME_V_02							
				Types of Lubrication and oil seals	DMD_ME_ppt_02		Use of different oil present at home and appliting in nut-bolt or hinjes of door and windows						
				Design of hydrodynamic journal bearings for radial loads with numerical	DMD_ME_ppt_02								
				Design of hydrodynamic journal bearings for radial loads with numerical	DMD_ME_ppt_02								
3	22-26 August	4	1&2	Design of ball and roller bearing for radial and thrust loads	DMD_ME_ppt_02	DMD_ME_V_03	Observe and analyse the bearing used in bycycle and types of load appled during running and steady condition.	Machine Design By Khurmi Gupta , V.B Bhandari (564-640)	2/9				
				Design of ball and roller bearing for radial and thrust loads with numerical	DMD_ME_ppt_02								
				Design of ball and roller bearing for radial and thrust loads with numerical.	DMD_ME_ppt_02								
				Design of ball and roller bearing for radial and thrust loads with numerical	DMD_ME_ppt_02								
				Failures of antifriction bearing, bearing housing.	DMD_ME_ppt_02								
				Design of Flat belt drive with introduction and types	DMD_ME_ppt_03	DMD_ME_V_04							

Faculty

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CCOEW/ MECH / 22-23

Date: 04 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Design of Mechanical Drives (BEME705T) | SEM -ODD (2022-23) | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
4	29 August-3 Sept.	4	2	Belt material, analysis of belt tension, condition for transmitting maximum power	DMD_ME_ppt_03			Machine Design By Khurmi Gupta , V.B Bhandari					
				Design of flat belt with numerical	DMD_ME_ppt_03								
				Design of flat belt and pulley with numerical	DMD_ME_ppt_03								
				Design of flat belt and pulley with numerical	DMD_ME_ppt_03				6/9				
				Design of V belt drive: Types of V-belt, analysis of V-belt tension	DMD_ME_ppt_03	DMD_ME_V_05				03rd Septemb			
				Design of V belt & pulley with numerical	DMD_ME_ppt_03								
5	05 -9 Septe.	5	2	Design of V belt & pulley with problem	DMD_ME_ppt_03			Machine Design By Khurmi Gupta , V.B Bhandari					
				Design of Roller chain drive: Velocity ratio and length of chain, design of chain, dimensions of	DMD_ME_ppt_04	DMD_ME_V_06	Observation and analyse the chain used in bycycle and bike.						
				Design of Roller chain drive with problem	DMD_ME_ppt_04				9/9				
				Design of Roller chain drive with numerical	DMD_ME_ppt_04								
				Design of wire rope drive: Introduction to wire rope, stresses in hoisting wire rope.	DMD_ME_ppt_04	DMD_ME_V_07							
				Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04								
6	12 -16 Septe.	5	4	Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04		Oservation and analysis of wire rope im Lift	Machine Design By Khurmi Gupta , V.B Bhandari		14th Sept.			
				Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04	DMD_ME_V_08							
				Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04				14/9				
				Design of wire rope, sheave and drum with numerical									
				Design of wire rope, sheave and drum with numerical									
				Design of Gears: Review of kinematics of gears & terminology, interference, tooth profiles, formative number of teeth	DMD_ME_ppt_05	DMD_ME_V_09							

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/ MECH / 22-23

Date: 04 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | **Subject: Design of Mechanical Drives (BEME705T)** | **SEM -ODD (2022-23)** | **Sem:- VII**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
7	17-23 Sept			Sessional - I									
- 8	26 Sept-01 Oct	4		Design of Spur Gear drive with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	6/10				
				Design of Spur Gear drive with numerical									
				Design of Spur Gear drive with numerical									
				Design of Spur Gear drive with numerical									
				Design of Helical Gear drive with numerical	DMD_ME_ppt_06								
9	3 -7 Oct	5	4	Design of Helical Gear drive with numerical	DMD_ME_ppt_06			Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	7/10				
				Design of Helical Gear drive with numerical									
				Design of Helical Gear drive with numerical									
				Design of Bevel Gear Drive: Types of bevel gear, proportions of bevel gear, force analysis of bevel gear drive	DMD_ME_ppt_07	DMD_ME_V_10							
				Design of bevel gear drive with numerical									
				Design of bevel gear drive with numerical									
10	10-15 Oct.	5	4	Design of bevel gear drive with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	10/10	14th Oct			
				Design of bevel gear drive with numerical									
				Design of bevel gear drive with numerical									
				Design of Worm Gear Drive: Worm Gearing—AGMA Equation; Worm-Gear force analysis	DMD_ME_ppt_08	DMD_ME_V_11							
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									
11	17-21 Oct.	5	1	Design of Worm Gear Drive with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	16/10				
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									

Faculty

H. O. D.

Cummins College of Engineering for Women, Nagpur-441110

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Cummins College of Engineering for Women, Nagpur

CCOEW/ MECH / 22-23

Date: 04 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Design of Mechanical Drives (BEME705T) | SEM -ODD (2022-23) | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
				Design of Worm Gear Drive with numerical									
12	24-28 Oct.			DIWALI VACCATION									
13	29 Oct.-5 Nov.	4		Design of Flywheel with Functions, Coefficient of fluctuation of energy	DMD_ME_ppt_09	DMD_ME_V_12	Observation and analyse the flywheel used in motor byke	Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]					
				Coefficient of fluctuation of speed, energy storage in flywheel									
				Stresses in flywheel, design of flywheel									
				Design of flywheel with numerical									
14	07-11 Nov	5	5	Design of flywheel with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	18/10/23				
				Design of flywheel with numerical									
				Design of flywheel with numerical									
				Design of flywheel with numerical									
				Design of flywheel with numerical									
15	14 - 19 Nov	5		Design of flywheel with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]					
				Design of flywheel with numerical									
				Design of I. C. Engine components	DMD_ME_ppt_10	DMD_ME_V_13							
				Introduction to selection of material for I. C. engine components									
				Design of cylinder and cylinder head									

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Academic year

2021-22

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CCOEW/Mech/ 21-22

Date: 17/03/2022

LESSON & TEACHING PLAN for MSE

Department of Mechanical Engg.

Faculty Name: Prof. Yogesh Dandekar | Sub: MSE | Year : 2021-22 | Sem:- 4

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
	1	4	1	Introduction to the subject							
		1		Classification of materials. Properties and applications of materials	Students will be made a tour to the campus and list out different materials and uplaod their photos on padlet with explanation of the material with it	Introduction to Physical Metallurgy by					
		1		Crystalline nature of metals, specially macroscopic and microscopic examination of metals.							
		1		Alloys and Solid Solutions. Types and their formations							
		1		Modified Gibb's phase rule	Students will prepare a video on Gibb's pahse rule and upload it on YouTube Channel						
		1		Cooling curves and phase equilibrium diagrams							
	2	4	1	Study of equilibrium digarmas (elements completely soluble in each other)							
		1		Study of equilibrium digarmas and invarient reactions							
		1		Iron-iron Carbid ephase equilibrium diagram	Students will prepare a board model of Fe-Fe3C diagram with explanation						
		1		Critical Temperatures in Fe-Fe3C phase equilibrium Diagram							
	3	4		Microstructure of slowly cooled steels	Students will prepare a video on eutectoid, hypo eutectoid and hyper eutectoid reaction and upload it on YouTube Channel						
		1		Estimation of carbon from the microstructures and structure property relationship	Students will prepare a video on estimation of carbon from the microstructure and upload it on YouTube Channel						
		1	2	Classification and application of plain carbon steels	Students have to identify various plain carbon steels samples						
	4	4		Effect of alloying elements on properties of steels	Students need to prepare a presentation on effects of alloying elements on properties of steels and upload them on google classroom						
		1		Alloy Steels Hadfield Managnese Steel, Ball Bearing Steel	Students need to prepare a presentation on different alloy steels and upload them on google classroom						

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				Al-Si diagram, bearing materials							
		1	1	Powder Metallurgy, powder manufacturing and conditioning							
	10	4	5	Product of sitered Structural components							
		1	1	Self lubricating bearing, cemented carbides							
		1	1	Ceramics, Sintered Carbide Cutting Tools							

Sub. Teacher

HoD

Ac

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Lab Practicals Plan

CCOEW/ Department of Mechanical Engineering 2021-22

Yogesh Dandekar			Material Testing			Section:
			BatchB 1			
Pi	Name of experiment	Possible variations used	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
print	print		print	fill	fill	fill
1	Create a specimen for metallographic examination- sampling and mounting	Students will be given different materials	3/22/2022			
	Create a specimen for metallographic examination- grinding, polishing and etching		3/29/2022			
2	Analyze the microstructure and investigate properties of different ferrous and non ferrous materials	students will be provide different microstructures	4/5/2022			
3	Test Different Engineering materials	each group will be given different material and different test	4/12/2022			
4	analyze the hardenability	each group need to perform hardenability test on different samples	4/19/2022			
5	To familiarize material behavior under different loading conditions	Different laoding conditions will be given during practical	4/26/2022			
6	To acquaint with surface hardness measurement method	Surface hardness of different materials need to be found out	5/3/2022			
	To study and analyze deflection of beams in various loading conditions	Different c/s will be provided for same material	5/10/2022			
	To study and understand behavior of material under various loading conditions.	variation in loading beahvior will be given	5/17/2022			
7	To familiarize with impact test methods for different materials	izod and charpy tests need to be carried out by students	5/24/2022			

Sub. Teacher

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CCOEW/ME / 21-22

Date: 4/ 03 / 2022

LESSON & TEACHING PLAN for Machining Processes

Department of Mechanical Engineering

Faculty Name: Prof. Dr. Shailesh Khekale | Sub: Machining Processes | Sec: | Year : 2021-22 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	21-25 March	3	I	Introduction to machining & Machining Parameters	ME4MPW01D010221 L01	MP_ME_ppt_01	MP_IM_V_01	Sharpening of pencils by sharpener to understand the material removal i.e machining	P N Rao Ch.4, p. 116-146 Garg p.464-479, R. K. Jain p. 441-464		21/3		
				Nomenclature and tool geometry of single point cutting tool	ME4MPW01D020221 L02	MP_ME_ppt_01	MP_NTG_V_02				22/3		
				Theory of Metal Cutting, Chip formation,	ME4MPW01D030221 L03	MP_ME_ppt_01	MP_TM_V_02				25/3		
2	28 March -1 April	3	I	Tool materialand it's properties, classification, HSS, carbide tool, coated tools, diamond coated tool	ME4MPW02D040221 L04	MP_ME_ppt_01	EP_MI_V_02	Cutting of potato, cucumber to understand the concept of chip formation			25/3		
				Orthogonal and Oblique cutting	ME4MPW02D040221 L05	MP_ME_ppt_01	MP_TM_V_02				28/3		
				Mechanics of Metal Cutting	ME4MPW02D040221 L06	MP_ME_ppt_01	MP_TM_V_02				28/3		
3	4- 8 April	3		Merchant's circle, Estimation of tool life, Feed and depth of cut on power requirement	ME4MPW03D080221 L07	MP_ME_ppt_01	MP_TM_V_02	Use of different kichen tools like knife, vegetable piller etc with variation in angle,depth of cut	Hazra p.53-55, Hajra P 86 to 98 and 107 to 110 and R K Jain p. 441-464		29/3		
			I	Influence of tool angle, cutting fluids, cutting speed, feed and depth of cut on power requirement,Estimation of tool life.	ME4MPW03D080221 L08	MP_ME_ppt_01	MP_TM_V_02				1/4/22		
				Lathe Introduction and types, Mechanism and attachments for vario	ME4MPW03D080221 L09	MP_ME_ppt_01	MP_TM_V_02				5/4/22		
4	11- 16 April	3	II	Construction of simple lathe	ME4MPW04D110221 L10	MP_ME_ppt_02	MP_TM_V_02	Concept of lathe machine by taking example of rotating lead pencil with			5/4		
				Machine specifications basis for selection of cutting speed	ME4MPW04D110221 L11	MP_ME_ppt_02	MP_TM_V_02				11/4		
				Machine specifications basis on feed and depth of cut	ME4MPW04D110221 L12	MP_ME_ppt_02	MP_TM_V_02				12/4		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
5	18- 22 April	3	II	Time estimation for turning operations such as facing, step turning	ME4MPW05D130221 L13	MP_ME_ppt_02	MP_TM_V_02	sharpener in fixed position			18/4		
				Time estimation for taper turning, threading, knurling	ME4MPW05D130221 L14	MP_ME_ppt_02	MP_TM_V_02				19/4		
				Introduction to Capstan & Turret Lathe and fundamentals of NC.	ME4MPW05D130221 L15	MP_ME_ppt_02	MP_TM_V_02		Garg p.464-479, R K Jain p. 441-464		19/4		
6	25-30April	4	III	Shaper: Introduction and types	ME4MPW06D130221 L13	MP_ME_ppt_02	MP_TM_V_02	Concept of shaper/planer machine can be explained by keeping cucumber in horizontal position, fixed by hand on one side and using vegetable piller from free side.			22/4		
				Specification, description of shaper machines,	ME4MPW06D130221 L14	MP_ME_ppt_02	MP_TM_V_02				22/4		
				Hydraulic drives in shapers, cutting parameters	ME4MPW06D130221 L15	MP_ME_ppt_02	MP_TM_V_02		Hazra p. 56-79 RKJain, ch. 23, p 719-725		22/4		
				Mechanism of shaper: Quick return mechanism, Crank & slotted link mechanism	ME4MPW06D130221 L16	MP_ME_ppt_02	MP_TM_V_02				25/4		
7	2 - 7 May	Sessional I											
8	9- 13 May	3	III	Table feed mechanism, attachments for shaper, work holding devices	ME4MPW07D130221 L13	MP_ME_ppt_02			Hazra p. 56-79 RKJain, ch. 23, p 719-725				
				Planer: Introduction, specifications, description. type of planner, open side planner, pit planner	ME4MPW07D130221 L14	MP_ME_ppt_02					26/4		
				Mechanism for planner: Driving mechanism, feeding mechanism, planner cutting tools, cutting parameters.	ME4MPW07D130221 L15	MP_ME_ppt_02					26/4		
9		3	IV	Milling Machine: Specification, types, column & knee type milling machine	ME4MPW02D130221 L13	MP_ME_ppt_02			Hazra ch. 7, p.297-324, RKJain, ch. 23, p 719-725		21/4		
				Fixed bed type milling machines, production milling machines.	ME4MPW02D130221 L13	MP_ME_ppt_02					21/4		
				Special purpose milling machines such as thread milling Machines	ME4MPW02D130221 L13	MP_ME_ppt_02					21/4		
10	16- 21 May	4	IV	Profile milling machine, Gear Milling/Hobbing machines	ME4MPW10D130221 L13	MP_ME_ppt_02		Students elaborated Milling machine and it's parts with their function			10/5		
				Types of milling operations,	ME4MPW10D130221 L14	MP_ME_ppt_02					12/5		
				Tool geometry & their specifications	ME4MPW10D130221 L15						12/5		
				Mechanisms & Attachments for Milling. Cutting, parameters,	ME4MPW10D130221 L16	MP_ME_ppt_02							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	23- 27 May	3	IV	Indexing- simple, compound and Differential Indexing.	ME4MPW11D130221 L13	MP_ME_ppt_02			Hazra ch. 9, p. 347-356				
				Grinding operations, grinding wheel,	ME4MPW11D130221 L14	MP_ME_ppt_02							
				Specifications & selection, cylindrical & centreless grinding operation, surface grinding, tool & cutter grinding, time estimation	ME4MPW11D130221 L15	MP_ME_ppt_02							
12	30 May- 4 June	3	IV	Super finishing process: Honing, Lapping, polishing, buffing,	ME4MPW02D130221 L13	MP_ME_ppt_02		Concept of Grinding process with Emery paper with different grades and wooden part			17/5		
				polishing, buffing, 'metal spraying, Galvanizing and electroplating	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Process parameters and attainable grades of surface finish, surface measurement.	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Specifications & selection, cylindrical grinding operation	ME4MPW02D130221 L13	MP_ME_ppt_02							
13	6 - 10 June	3	IV & V	Attainable grades of surface finish surface measurement	ME4MPW02D130221 L13	MP_ME_ppt_02		Use of sharp tip of grater to make hole in Potato to understand the concept of drilling.	Hazra ch. 11, p. 397-406,		23/5		
				Drilling: introduction, tools for drilling, classification of drills, twist drills, drill size and	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Bench drilling machine, right drilling machine, radial drilling machine, universal drilling machine,	ME4MPW02D130221 L13	MP_ME_ppt_02							
14	13 - 18 June	3	V	Multisided drilling machine.Drilling machines operations,time estimation for drilling.	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Reaming:Introduction, description of reamer, type of reaming operations.	ME4MPW02D130221 L13	MP_ME_ppt_02			Hazra ch. 11, p. 397-406,				
				Boring: Introduction, types of boring machine	ME4MPW02D130221 L13	MP_ME_ppt_02							
15	20 - 24 June	2	V	Horizontal boring machine,vertical boring machine,jigmachine,microboring. Boring operations.	ME4MPW15D130221 L13	MP_ME_ppt_02					27/5		
				Broaching:Introduction,typeofbroaches,nomenclatureofbroaches.typesofbroachingmachin	ME4MPW15D130221 L14	MP_ME_ppt_02							
16	27June- 2 July	Sessional II											

Sub. Teacher

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CCOEW/MECH / 21-22

Date: 30/1 / 2022

LESSON & TEACHING PLAN for Control System Engineering

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar | Sub: Control System Engineering | Year : 2021-22 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb -5 Feb	6	I	Control System controls: Study of Control System components such as hydraulic actuators. Servomechanism D.C. and A.C. motor, liquid level control, Automobile Power Steering Control,	ME602CSEW01D010222 L01	CSE_CS_ppt_01	CSE_CS_V_01	MatLab Required	Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 Pg. 101-200		1/2/22	—	
					ME602CSEW01D020222 L02						2/2/22		
					ME602CSEW01D030222 L03		CSE_CS_V_02				3/2/22		
					ME602CSEW01D040222 L04						4/2/22		
					ME602CSEW01D050222 L05						5/2/22		
					ME602CSEW01D060222 L06								
2	7 Feb -11 Feb	6		Speed Control, Position control of Robotic Manipulator etc. Study and Analysis of performance characteristics, the concept of various types of system like machine tools, Prime movers, system generators, etc.	ME602CSEW02D080222 L07	CSE_CS_ppt_02			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 Pg. 101-200		7/2/22		
					ME602CSEW02D090222 L08		CSE_CS_V_03				8/2/22		
					ME602CSEW02D100222 L09		CSE_CS_V_04				9/2/22		
					ME602CSEW02D110222 L10						10/2/22		
					ME602CSEW02D120222 L11						11/2/22		
					ME602CSEW02D130222 L12								
3	14 Feb-19 Feb	6		Modeling of Mechanical System: Basic Elements of Control System – Open loop and Closed loop systems – Differential equation – Laplace Transform –Transfer function, Modeling of physical	ME602CSEW03D150222 L13	CSE_CS_ppt_03			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th		14/2/22		
					ME602CSEW03D160222 L14		CSE_CS_V_05				15/2/22		
					ME602CSEW03D170222 L15						16/2/22		
					ME602CSEW03D180222 L16		CSE_CS_V_06				17/2/22		

9/5/22

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				system like	ME602CSEW03D190222 L17				Edition, 2007 pg.201-300		18/2/22		
					ME602CSEW03D200222 L18								
4	22 Feb -25 Feb	6	I	Translational, rotational mechanical systems, Electric systems, Electronic system and Electro-mechanical system. Concept of transfer function & its determination for physical systems.	ME602CSEW04D220222 L19	CSE_CS_ppt_04			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 301-400		21/2/22		
					ME602CSEW04D230222 L20		CSE_CS_V_07				22/2/22		
					ME602CSEW04D240222 L22						23/2/22		
					ME602CSEW04D250222 L22						24/2/22		
					ME602CSEW04D260222 L23						25/2/22		
					ME602CSEW04D270222 L24								
5	28 Feb - 5 Mar	6	II	Transfer Function system Representation through Block Diagram and Signal Flow Graph: Block Diagram representation, Reduction Techniques for single and multiple input/output, Conversion of Block Diagram into Signal Flow Graph	ME602CSEW05D010322 L25	CSE_CS_ppt_05			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 401-500		28/2/22		
					ME602CSEW05D020322 L26		CSE_CS_V_08				1/3/22		
					ME602CSEW05D030322 L27		CSE_CS_V_09				2/3/22		
					ME602CSEW05D040322 L28						3/3/22		
					ME602CSEW05D050322 L29						4/3/22		
					ME602CSEW05D060322 L30						5/3/22		
6	7 Mar -11 Mar	6	II	Conversion of algebraic equation into Block Diagram and Signal Flow Graph. Transfer function through Block Diagram Simplification using Masons Gain Formula.	ME602CSEW06D080322 L31	CSE_CS_ppt_06			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 500-523		7/3/22		
					ME602CSEW06D090322 L32		CSE_CS_V_10				8/3/22		
					ME602CSEW06D100322 L33						9/3/22		
					ME602CSEW06D110322 L34		CSE_CS_V_11				10/3/22		
					ME602CSEW06D120322 L35						11/3/22		
					ME602CSEW06D130322 L36						12/3/22		
7	14 Mar - 19 Mar												

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
8	22 Mar - 25 Mar	6	III	System Response & Time Domain Response Analysis: First and second order systems response to impulse, ramp and sinusoidal inputs, properties of unit step response of second order system, systems with velocity lag, Steady state errors and Error constants.Signals: Step, Ramp, Impulse, Parabolic and Periodic signals with their mathematical representation and characteristics.	ME602CSEW08D220322 L36	CSE_CS_ppt_07			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 550- 602		22/3		
					ME602CSEW08D230322 L37		CSE_CS_V_12				23/3		
					ME602CSEW08D240322 L38		CSE_CS_V_13				24/3		
					ME602CSEW08D250322 L39						25/3		
					ME602CSEW08D260322 L40								
					ME602CSEW08D270322 L41								
9	28 Mar - 1 April	6		Mode of Controls: Basic control actions and Industrial controllers, Introduction to P, PI and PID controllers their characteristics, representation and applications. Classification of industrial automatic controllers, control actions, proportional controllers, obtaining derivative and integral control action, effects of integral and derivative control action on system performance.	ME602CSEW09D290322 L42	CSE_CS_ppt_08			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 343- 422		28/3		
					ME602CSEW09D300322 L43						29/3		
					ME602CSEW09D310322 L44		CSE_CS_V_14				30/3		
					ME602CSEW09D010422 L45						31/3	3/5/22	
					ME602CSEW09D020422 L46						1/4		
					ME602CSEW09D030422 L47								
10	4 April - 9 April	6	IV	Control system analysis: Concept and types of stability, Routh-Hurwitz Criterion and its application for determination of stability, limitations. Root locus plot: Simple transfer functions transient response from root locus.	ME602CSEW11D120422 L48	CSE_CS_ppt_09			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 Pg. 501- 622		4/4		
					ME602CSEW11D130422 L49						5/4		
					ME602CSEW11D140422 L50		CSE_CS_V_15				6/4		
					ME602CSEW11D150422 L51						7/4		
					ME602CSEW11D160422 L52						8/4		9/5/22
					ME602CSEW11D170422 L53								
11	11 April -	6	V	Frequency Domain analysis - Correlation between time and frequency responses of a second order System.	ME602CSEW12D190422 L54	CSE_CS_ppt_10	CSE_CS_V_16		Control System Engineering, J. Nagrath and M.Gopal, New		11/4		
					ME602CSEW12D200422 L55						12/4		
					ME602CSEW12D220422 L56						13/4		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Cummins College of Engineering for Women
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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	16 April			Bode & Polar plot: Determination of Gain Margin, Phase Margin and their Stability from Bode and Polar plots.	ME602CSEW12D220422 L57				International Publishers, 5th Edition, 2007 pg. 638- 720		11/4		
					ME602CSEW12D230422 L58						12/4		
					ME602CSEW12D240422 L59						13/4		
12	18 April - 22 April	6	VI	Inverse Bode Plot, Transportation lag, System Identification from Bode plot.	ME602CSEW13D260422 L60	CSE_CS_ppt_11			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 523-576		18/4		
					ME602CSEW13D270422 L61		CSE_CS_V_17				19/4		
					ME602CSEW13D280422 L62						20/4		
					ME602CSEW13D290422 L63						21/4		
					ME602CSEW13D300422 L64								
					ME602CSEW13D010522 L65								
13	25 April - 30April	6	VI	State space representation of Continuous Time systems: State equations, Transfer function from State Variable Representation – Solutions of the state equations, Concepts of Controllability and Observability, State space representation for Discrete time systems. Stability criterion: Introduction to control system design lag lead compensation, Feed Back Compensation and Pole -Zero	ME602CSEW14D030522 L66		CSE_CS_V_18		Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 725-812		25/4		
					ME602CSEW14D040522 L67		CSE_CS_V_19				26/4		
					ME602CSEW14D050522 L68	CSE_CS_ppt_12					27/4		
					ME602CSEW14D060522 L69						28/4		
					ME602CSEW14D070522 L70						29/4		
					ME602CSEW14D080522 L71								
14	2 may - 7 May	**Sessional II**											

Sub. Teacher

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Yeshwantrao College of Engineering for Women
Hingna, Nagpur-441110.

LESSON & TEACHING PLAN for OPERATIONS RESEARCH

Department of MECHANICAL ENGINEERING

Faculty Name: Prof. Aditya Kawadaskar | **Sub:** Operations Research | **Sec:** | **Year :** 2021-22 | **Sem.:** VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1Feb -6Feb	6	I	Introduction to O. R. & basic O.R. Models	OR_ppt_01			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.1,PAGE NO.1-20		01/02		
				Characteristics, phases &	OR_ppt_01					02/02		
				Methodology of O.R., Limitations & Applications	OR_ppt_01					03/02		
				Linear Programming;- Introduction, Linear programming problem formulation,LPP Solution by Graphical Method	OR_ppt_01		Problem on workshop Inventory	OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.1,PAGE NO.39-138		04/02		
				Numericals	OR_ppt_01					05/02		
				Numericals	OR_ppt_01					06/02		
2	8FEB-13 FEB	3	II	Simplex Method, Principle of Duality & Formulation of Model only, Sensitivity Analysis Concept Only,**Tutorial**	OR_ppt_01			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.2,PAGE NO.139-169		08/2	Assi10/2/2022	
				Numericals	OR_ppt_01		Simplex on Microsoft excel			9/2		
				Numericals	OR_ppt_01					10/2		
				Numericals	OR_ppt_01					11/2		
				Numericals	OR_ppt_01					12/2		
				Numericals	OR_ppt_01					13/2	Tutorial 13/2/22	

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				Transportation Model – Introduction, Finding Initial Solution by MODI method	OR_ppt_3			Numericals. M.N Avadhanulu. 345-380		14/2
				Numericals	OR_ppt_2					15/2
				Numericals	OR_ppt_2					16/2
				Numericals	OR_ppt_2					17/2
				Numericals	OR_ppt_2					18/2
4	22FEB-27FEB	2	II	Unbalanced Transportation Problem, Degeneracy, Transshipment Problem, Assignment Model - Introduction, Variants of Assignment Problems	OR_ppt_2		Activity on batting order of Indian Batsman	OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.3,PAGE NO.228-266		20/2
				Numericals	OR_ppt_2					22/2
				Numericals	OR_ppt_2					23/2
				Numericals	OR_ppt_2					24/2
				Traveling Salesman Problem – Branch & Bound Technique, Network Model – Project Management, Formation of Network, CPM, Tutorial	OR_ppt_2		Actual Salesman travelling in Nagpur	OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.4,PAGE NO.322-357		25/2
				Numericals	OR_ppt_2					26/2
				Numericals	OR_ppt_2					27/2
5	1MARCH-6MARCH		IV	PERT analysis, Probability of Completion of Project, Cost Analysis of Project, and Concept of Crashing, Tutorial	OR_ppt_4		chart on Mini project	OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.14,PAGE NO.1188-1258		01/03
				Numericals	OR_ppt_4					02/03
				Numericals	OR_ppt_4					03/03
				Numericals	OR_ppt_4					04/03
				Replacement Model - Replacement Analysis - Replacement of items that deteriorated with time. Replacement of items that fails suddenly, Tutorial	OR_ppt_5			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S		05/03

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6	8MAR-13MAR		V	Numericals	OR_ppt_5			NO.11,PAGE NO.981-993		08/03	
				Numericals	OR_ppt_5					09/03	
				Group Replacement Queuing Theory : M/M/1 model (without derivation)	OR_ppt_5			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.11,10,PAGE NO.981-993,896-946		10/3	
				Numericals	OR_ppt_5					11/3	
				Numericals	OR_ppt_5					12/3	
6	14MAR-21MAR										
								Sessional I			
7	22MAR-27MAR	2	VI	Simulations - Concept, applications in waiting line situations, inventory and network. 1	OR_ppt_6			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.11,10,PAGE NO.981-993,896-946		22/3	
				Numericals	OR_ppt_6					23/3	
				Numericals	OR_ppt_6					24/3	
				Numericals	OR_ppt_6					25/3	
				Numericals	OR_ppt_6					26/3	
				Numericals	OR_ppt_6					27/3	
9	29MAR-3APR	4	III	Games without Saddle Points, 2x2 games	OR_ppt_3		Case study of Kabaddi	OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.13,PAGE NO.1112-1154		29/3	
				Numericals	OR_ppt_3					03/04	
				Numericals	OR_ppt_3					04/04	
				Dominance Principle, mx2 & 2xn games. (No Graphical Method).	OR_ppt_3					05/04	
				Numericals	OR_ppt_3					05/04	
				Numericals	OR_ppt_3					05/04	
10	5APR - 10APR	3	III	Sequencing Model - Introduction, Sequencing Model:	OR_ppt_3			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.13,PAGE NO.1112-1154		06/4	
				NUMERICALS	OR_ppt_3					07/4	
				n job two machines problem,	OR_ppt_3					8/4	
				NUMERICALS	OR_ppt_3					9/4	
				n job 3 machines problem, 2 jobs m machine problem	OR_ppt_3					10/4	
				NUMERICALS	OR_ppt_3					10/4	

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11	12APR - 17APR	3		Inventory Model: Inventory control costs.	OR_ppt_3			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.9,PAGE NO.716-895		12/4	
				NUMERICALS	OR_ppt_3					13/4	
				analysis of inventory models with deterministic demand (Single Product).	OR_ppt_3					14/4	
				NUMERICALS	OR_ppt_3					15/4	
				ABC analysis. Tutorial	OR_ppt_3					16/4	
				NUMERICALS	OR_ppt_3					17/4	
12	19APR - 24APR	3	III	Game Theory- Introduction, Minimax and Maximin,	OR_ppt_3					19/4	
				NUMERICALS	OR_ppt_3					20/4	
				NUMERICALS	OR_ppt_3					21/4	
				Criteria and Optimal Strategy,	OR_ppt_3					22/4	
				NUMERICALS	OR_ppt_3					23/4	
				NUMERICALS	OR_ppt_3					24/4	
13	26APR - 30 APR	3	III	Solution of games with Saddle Points Tutoria	OR_ppt_3			OPERATION RESEARCH BY PREM KUMAR GUPTA AND D.S HIRA, CH. NO.9,PAGE NO.716-895		26/4	
				NUMERICALS	OR_ppt_3					27/4	
				NUMERICALS	OR_ppt_3					28/4	
				NUMERICALS	OR_ppt_3					29/4	
				NUMERICALS	OR_ppt_3					30/4.	
16				Sessional II							

Sub. Teacher

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CCOEW/MECH / 21-22

Date: 29/12 / 2021

LESSON & TEACHING PLAN

Department of Mechanical Engg.

Faculty Name: Dr. Shailesh Khekale								Sub: Advance Manufacturing Technique BEME803T1			Year : 2021-22		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10 Jan -15 Jan	6	I	Non Traditional Machining process: Need, classification & historical development. Economics of Non-Traditional process for machining..	ME803AMTW01D010221L01	AMT_CS_ppt_01	AMT_CS_V_01		Manufacturing Science, Ghosh & Malik, East West Press. Pg. 202-258		19/1		
					ME803AMTW01D020221L02								
					ME803AMTW01D030221L03		AMT_CS_V_02						
					ME803AMTW01D040221L04								
					ME803AMTW01D050221L05								
					ME803AMTW01D060221L06								
2	17 Jan -21 Jan	5	I	Application of Non-Traditional process for machining. High speed grinding. Hot & Cold machining.	ME803AMTW02D080221L07	AMT_CS_ppt_02		Use of emery paper to understand grinding operation	Manufacturing Science, Ghosh & Malik, East West Press. Pg. 202-258		25/1		
					ME803AMTW02D090221L08		AMT_CS_V_03						
					ME803AMTW02D100221L09		AMT_CS_V_04						
					ME803AMTW02D110221L10								
					ME803AMTW02D120221L11								
					ME803AMTW02D130221L12								
3	24 Jan -29 Jan	6	II	Abrasive Jet Machining, Mechanics of AJM-process parameters & Machining parameters.	ME803AMTW03D150221L13	AMT_CS_ppt_03			Manufacturing Science, Ghosh & Malik, East West Press.Pg.279- 310		28/1		
					ME803AMTW03D160221L14		AMT_CS_V_05						
					ME803AMTW03D170221L15								
					ME803AMTW03D180221L16		AMT_CS_V_06						
					ME803AMTW03D190221L17								
					ME803AMTW03D200221L18								

Faculty in Charge

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Cummins College of Engineering for Women, Nagpur-411 052

Dr. Milind Khanapurkar
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Cummins College of Engineering for Women
Nagpur-411 052.

	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for Quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	31 Jan -5 Feb	6	II	Ultrasonic Machining process, mechanics, process parameters & control, effect of USM on materials. Water Jet Machining.	ME803AMTW04D22022 1L19	AMT_CS_ppt_04		Student activity to understant impact of water jet	Manufacturing Science, Ghosh & Malik, East West Press. Pg. 312-329				
					ME803AMTW04D23022 1L20		AMT_CS_V_07						
					ME803AMTW04D24022 1L21								
					ME803AMTW04D25022 1L22								
					ME803AMTW04D26022 1L23								
					ME803AMTW04D27022 1L24								
5	7Feb - 11 Feb	6	III	Electro-Chemical Machining: Electrochemistry of ECM. Electrochemical Grinding.	ME803AMTW05D01032 1L25	AMT_CS_ppt_05			Manufacturing Science, Ghosh & Malik, East West Press.Pg.379- 410		2/7		
					ME803AMTW05D02032 1L26		AMT_CS_V_08						
					ME803AMTW05D03032 1L27		AMT_CS_V_09						
					ME803AMTW05D04032 1L28								
					ME803AMTW05D05032 1L29								
					ME803AMTW05D06032 1L30								
6	14Feb-18Feb	6	III	Electric Discharge Machining. Electron Beam, Laser Beam and Plasma Arc Machining.	ME803AMTW06D08032 1L31	AMT_CS_ppt_06			Manufacturing Science, Ghosh & Malik, East West Press.pg. 379-410		8/2		
					ME803AMTW06D09032 1L32		AMT_CS_V_10						
					ME803AMTW06D10032 1L33								
					ME803AMTW06D11032 1L34		AMT_CS_V_11						
					ME803AMTW06D12032 1L35								
					ME803AMTW06D13032 1L36								
7	21 Feb - 25 Feb			Sessional 1									

Faculty in Charge

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Dr. Milind Khanapurkar
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Maharashtra Kanna Seva Shikshan Samsthe's
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Nagpur-441110

	eek	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
8	28 Feb - 5 Mar	6	IV	Unconventional welding techniques such as Inert Gas (MIG & TIG), Electric Resistance welding, Oxyacetylene pressure welding,	ME803AMTW08D22032 1L36	AMT_CS_ppt_07			Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg.310-356		18/2		
					ME803AMTW08D23032 1L37		AMT_CS_V_12						
					ME803AMTW08D24032 1L38		AMT_CS_V_13						
					ME803AMTW08D25032 1L39								
					ME803AMTW08D26032 1L40								
					ME803AMTW08D27032 1L41								
9	7 Mar -11 Mar	6	IV	Laser Beam welding, Electron Beam welding, Plasma Arc welding, Atomic Hydrogen welding & Submerged Arc welding, Stud welding.	ME803AMTW09D29032 1L42	AMT_CS_ppt_08			Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg.358-385		18/2		
					ME803AMTW09D30032 1L43								
					ME803AMTW09D31032 1L44		AMT_CS_V_14						
					ME803AMTW09D01042 1L45								
					ME803AMTW09D02042 1L46								
					ME803AMTW09D03042 1L47								
11	14 Mar -19 Mar	6	V	Solid Phase welding techniques such as Ultrasonic welding, Friction welding.	ME803AMTW11D12042 1L48	AMT_CS_ppt_09			Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg. 392-427		1/3		
					ME803AMTW11D13042 1L49								
					ME803AMTW11D14042 1L50		AMT_CS_V_15						
					ME803AMTW11D15042 1L51								
					ME803AMTW11D16042 1L52								
					ME803AMTW11D17042 1L53								

Faculty in Charge

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Dr. Milind Khanapurkar
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	eek	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for Quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	21 Mar -25 Mar	6	V &VI	Economics and application of Non-Traditional processes for welding. Advance casting process: Metal mould casting, continuous casting, squeeze casting, vacuum mould casting, evaporative pattern casting	ME803AMTW12D19042 1L54	AMT_CS_ppt_10	AMT_CS_V_16		Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg. 430-497	8/3			
					ME803AMTW12D20042 1L55								
					ME803AMTW12D21042 1L56								
					ME803AMTW12D22042 1L57								
					ME803AMTW12D23042 1L58								
					ME803AMTW12D24042 1L59								
13	28 March - 31 March	6	VI	Ceramic shell casting, centrifugal casting, slush casting	ME803AMTW13D26042 1L60	AMT_CS_ppt_11		Student activity of using molten wax to understang centrifugal casting	Advanced Machining Processes, V.K. Jain, Allied Publishers. Pg.254 - 276	15/3			
					ME803AMTW13D27042 1L61		AMT_CS_V_17						
					ME803AMTW13D28042 1L62								
					ME803AMTW13D29042 1L63								
					ME803AMTW13D30042 1L64								
					ME803AMTW13D01052 1L65								
14	4 April-9 April	Sessional II											

Sub. Teacher

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CCOEW/MECH / 21-22

Date: 31/ 12 / 2021

LESSON & TEACHING PLAN for Industrial Management

Department of Mechanical Department

Faculty Name: Dr. Mahesh Shukla								Sub: Industrial Management			Year : 2021-22		Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10 Jan - 15 Jan			**SKILL DEVELOPMENT WEEK**									
2	17 Jan - 22 Jan	4	1	Principles of management,Concepts of management		IM_Unit 1_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 1 to 110		17/01/22		
				development of scientific management							18/01		
				principles of Fredric W. Taylor, principles of Henry Fayol & functions such as planning, organizing							19/01		
				principles of Fredric W. Taylor, principles of Henry Fayol & functions such as planning, organizing							20/01		
				staffing, leading, motivating,communicating, controlling							21/01		
				decision making, span of control,							24/01		

Faculty in Charge

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Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	21 Feb - 26 Feb	4		advertising, market segmentation.									
			4	Financial management, Sources of finance,,financing organ		IM_Unit 4_ppt_01							
				types of capita,elements of costs									
8	28 Feb - 05 Mar	Sessional1											
9	07 Mar - 12 Mar	4	4	allocation of indirect expenses		IM_Unit 4_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 204 to 245				
				cost control, break even analysis									
				budgets & budgetary control,									
				equipment replacement policy, make or buy analysis,									
10	14 Mar- 19 Mar	4		balance sheet, ratio analysis, profit & loss statement.									
			5	Plant management, Plant location,		IM_Unit 5_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 372 to 385				
				plant layout, Material handling objectives									
				principles & selection of material handling equipments types									
11	21 Mar- 26 Mar	4		Industrial safety, causes & cost of accidents									
				accident biorhythms,safety programs, .									
				job, batch & process type of production									
				philosphy of six sigma, approaches to quality improvement									

Faculty in Charge

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Yashwantrao Chavan College of Engineering for Women
Hingna, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	28 Mar- 02 april	4	6	Recent treads in production and operation management like Lean Manufacturing,Lean Manufacturing		IM_Unit 6_ppt_01			INDUSTRIAL MANANGEMENT BY I.K.CHOPDE & A.M.SHEIKH Page No. 330 to 385				
				Retail Management									
				World Class Manufacturing, Retail Management									
				Supply Chain Management,									
13	04 Apr- 09 April	4		Value Engineering,Re-engineering,									
				Reverse Engineering, Business Process Re-engineering									
				Quality Circle,Just in Time (JIT),									
				Kaizen,Poka Yoke.									

Sub. Teacher

Ac

Faculty in Charge

HOD

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Maharshi Karve Stree Shikshan Samstha's
Educating Women for
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/ MECH / 21-22

Date: 20 / 09 / 2021

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Manufacturing Processes (ME304T) | SEM -ODD (2021-22) | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	27Sept-2 Octo	5	1	Introduction to casting	ME304MPW01D100820L01	MP_ME_ppt_01	MP_ME_V_01	Activity of pouring wax and pouring of water for ice making	1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234]	2/10				
				Pattern and it's types.	ME304MPW01D110820L02	MP_ME_ppt_01								
				Pattern making and Materials for pattern	ME304MPW01D120820L03	MP_ME_ppt_01								
				Pattern making allowances and Color codes	ME304MPW01D130820L04	MP_ME_ppt_01								
				Core making and types of core. Core material & its properties.	ME304MPW02D140820L05	MP_ME_ppt_01								
2	4 Octo-8 Octo	5	1	Moulding and it's types like sand moulding.	ME304MPW02D170820L06	MP_ME_ppt_01	MP_ME_V_02	Activity for (sand and clay) moulding	1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234]	8/10				
				Sand composition, Moulding sand properties	ME4MPW02D180820L07	MP_ME_ppt_01								
				Moulding machines, Shell moulding, CO2 moulding	ME304MPW02D190820L08	MP_ME_ppt_01	MP_ME_V_03							
				Gating System and Elements of gating systems	ME304MPW02D200820L09	MP_ME_ppt_01								
				Gating design. Pouring equipments, Riser design	ME304MPW02D210820L10	MP_ME_ppt_01								
3	11 Octo-16 Octo	5	1	Sand mould casting	ME304MPW03D240820L11	MP_ME_ppt_01	MP_ME_V_04		1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234] from IIT Kharagpur	16/10				
				Melting furnaces -Types. Electric furnace, Induction furnace	ME4MPW03D250820L12	MP_ME_ppt_02								
				Cupola construction & operation.	ME304MPW03D260820L13	MP_ME_ppt_02								
				Types of Casting Processes. Special casting processes such as investment Casting	ME304MPW03D270820L14	MP_ME_ppt_03	MP_ME_V_05							
				Centrifugal casting and types	ME304MPW03D280820L15	MP_ME_ppt_03	MP_ME_V_06							
				Slush and Die Casting.	ME304MPW03D290820L16	MP_ME_ppt_03								
4	18 Octo-22Octo	5	2	Introduction to metal Joining	ME304MPW04D310820L17	MP_ME_ppt_03			1) Manufacturing Science - Ghosh & Malik [2) Workshop Technology (Volume I)- Hajra Chaudhary 3)Manufacturing Technology- P.N.Rao	22/10				
				Arc Welding Processes, Electrodes, weldability of Metals	ME304MPW04D010920L18	MP_ME_ppt_03								
				Welding equipments Fixtures. Gas Welding Processes	ME304MPW04D020920L19	MP_ME_ppt_03								
				TIG Welding. MIG Welding	ME304MPW04D030920L20	MP_ME_ppt_04								
				Solid state welding.	ME304MPW04D040920L21	MP_ME_ppt_04								

Faculty

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Sharpening Engineering Acumen with a difference

CCOEW/ MECH / 21-22

Date: 20 / 09 / 2021

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale								Subject: Manufacturing Processes (ME304T)	SEM -ODD (2021-22)			Sem:- III	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
5	25 Octo-30 Octo	5	2	Thermit welding	ME304MPW05D070920L23	MP_ME_ppt_04	MP_ME_V_07		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma,	30/10				
				Electroslag welding	ME304MPW05D080920L24	MP_ME_ppt_04	MP_ME_V_08							
				Resistance Welding,	ME304MPW05D090920L25	MP_ME_ppt_04								
				Plasma Arc welding and Electron Laser Beam welding.	ME304MPW05D100920L26	MP_ME_ppt_04								
				Weld: Inspection, Defects in various joints and their remedies.	ME304MPW05D110920L27	MP_ME_ppt_04								
				Joint through Adhesive – classification of adhesive, types of adhesive, applications	ME304MPW05D120920L28	MP_ME_ppt_04								
7	8Nov-12Nov			**Sessional - I**										
6	15Nov-20 Nov	5	3	Introduction to Forming Process for metals	ME304MPW06D140920L28	MP_ME_ppt_05	MP_ME_V_09	Analysis of forming processes used for house hold	1) Production Technology -R. K. Jain 2) Production Engg. - P.C.Sharma 3)Non-Conventional Manufacturing Processes, H.S. Shan, 4) Soft notes from IIT Kharagpur	20/11				
				Mechanics of forming process,	ME304MPW06D150920L29	MP_ME_ppt_05	MP_ME_V_10							
				Rolling, Forging, Extrusion, Drawing,	ME304MPW06D160920L30	MP_ME_ppt_05	MP_ME_V_11	Activity to understand extrusion						
				Determination of Rolling pressure and roll specification force, drive force and torque,	ME304MPW06D180920L32	MP_ME_ppt_05	MP_ME_V_12							
				Drawing and it's types	ME304MPW06D190920L33	MP_ME_ppt_05								
8	22Nov-26 Nov	5	4	Rolling, Forging, Extrusion, Drawing,	ME304MPW08D280920L34	MP_ME_ppt_05			1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	26/11				
				Determination of Rolling pressure and roll specification force, drive force and torque,	ME304MPW08D290920L35	MP_ME_ppt_05								
				Drawing and it's types	ME304MPW08D300920L36	MP_ME_ppt_05								
				Introduction to Sheet metal working	ME304MPW08D011020L37	MP_ME_ppt_05								
				Types of sheet metal working processes	ME304MPW08D031020L38	MP_ME_ppt_06								

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale								Subject: Manufacturing Processes (ME304T)	SEM -ODD (2021-22)			Sem:- III	

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
9	29Nov-4 Dec	5	5	Classification and types of presses	ME304MPW09D051020L39	MP_ME_ppt_06			1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	4/12				
				Press terminology	ME304MPW09D061020L40	MP_ME_ppt_06								
				Force analysis in press working	ME304MPW09D071020L41	MP_ME_ppt_06								
				Die cutting operation, types of dies,	ME304MPW09D081020L42	MP_ME_ppt_06								
				Die and punch allowance	ME304MPW09D091020L43	MP_ME_ppt_06								
10	6 Dec.-11 Dec	5	5	Introduction to shaping operations	ME304MPW10D121020L45	MP_ME_ppt_07			1)Textbook of Production Engineering - P.C. Sharma, 2) Soft notes from IIT Kharagpur	11/12				
				Introduction to bending, forming	ME304MPW10D131020L46	MP_ME_ppt_07								
				Introduction to drawing operations.	ME304MPW10D141020L47	MP_ME_ppt_07								
				Types of drawing operations	ME4MPW10D151020L48	MP_ME_ppt_07								
				Introduction to Plastics, Properties of plastics	ME304MPW10D161020L49	MP_ME_ppt_08								
				Types of Plasics	ME4MPW10D171020L50	MP_ME_ppt_08								
11	13 Dec.-18 Dec	5	5	Applications of plasics	ME4MPW11D191020L50	MP_ME_ppt_08			1)Textbook of Production Engineering - P.C. Sharma, 2) Soft notes from IIT Kharagpur	20/12				
				Introduction of Forming & Shaping of plastics	ME304MPW11D201020L51	MP_ME_ppt_08								
				Extrusion, injection moulding	ME304MPW11D211020L52	MP_ME_ppt_08								
				Wire drawing	ME304MPW11D221020L53	MP_ME_ppt_08								
				Compression moulding	ME304MPW11D231020L54	MP_ME_ppt_08								
				Transfer moulding	ME304MPW11D241020L55	MP_ME_ppt_08								
	20Dec.-21 Dec	2	5	Embossing		MP_ME_ppt_08				21/12				
				Calendaring		MP_ME_ppt_08								
22Dec to 24 Dec 2021				Internal Practical / Final Submission										
27Dec. to 1 Jan. 2022				Sessional - II										

Faculty

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
3	13 Sept-18 Sept	6	1	Problem on eccentric loaded rivetted joints.	DME_ME_ppt_13	DME_ME_V_13		18					
				Problem on eccentric loaded rivetted joints.	DME_ME_ppt_14	DME_ME_V_14							
			2	Design of bolted Joints Design procedure	DME_ME_ppt_15	DME_ME_V_15		Machine Design By Khurmi Gupta ch.4.pg.8-17					
				problem on bolted joint	DME_ME_ppt_16	DME_ME_V_16							
				problem on bolted joint	DME_ME_ppt_17	DME_ME_V_17							
				problem on eccentric loaded bolted joint	DME_ME_ppt_18	DME_ME_V_18							
4	20 Sept-24 Sept	6	2	Design of welded joints under axial and eccentric loading condition.	DME_ME_ppt_19	DME_ME_V_19		Machine Design By Khurmi Gupta ch.4.pg.8-17					
				Problem on welded joint	DME_ME_ppt_20	DME_ME_V_20	See types of weld available					B/10	
				Problem on welded joint	DME_ME_ppt_21	DME_ME_V_21							
				Problem on axial and eccentric loaded welded joint	DME_ME_ppt_22	DME_ME_V_22	Various examples of eccentric						
				Design of cylinder and pressure vessels: Types of pressure vessel.	DME_ME_ppt_23	DME_ME_V_23	Discuss on diagram on pressure						
				stresses induced in pressure vessel, lame's, clavarino's and bernie's	DME_ME_ppt_24	DME_ME_V_24							
5	27 Sept - 1 Oct	5	2	Problem on Pressure vessel.	DME_ME_ppt_25	DME_ME_V_25		Machine Design By Khurmi Gupta ch.7.pg.224-260					
				Problem on Pressure vessel.	DME_ME_ppt_26	DME_ME_V_26							
				Problem on Pressure vessel.	DME_ME_ppt_27	DME_ME_V_27						22/10	
				Problem on Pressure vessel.	DME_ME_ppt_28	DME_ME_V_28							
				Problem on Pressure vessel.	DME_ME_ppt_29	DME_ME_V_29							
				Problem on Pressure vessel.	DME_ME_ppt_30	DME_ME_V_30							
	4 Oct - 9 Oct												

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
6	11 Oct - 16 Oct	5	3	Design of shaft for - power transmitting, power distribution under static and fatigue criteria.	DME_ME_ppt_31	DME_ME_V_31	discuss on types of shaft where it use	Machine Design By Khurmi Gupta ch.13.pg.470-508					
				Problem on Shaft.	DME_ME_ppt_32	DME_ME_V_32						9/6/4	
				Problem on Shaft.	DME_ME_ppt_33	DME_ME_V_33							
				Problem on Shaft.	DME_ME_ppt_34	DME_ME_V_34							
				Problem on Shaft.	DME_ME_ppt_35	DME_ME_V_35							
				Problem on Shaft.	DME_ME_ppt_36	DME_ME_V_36							
8	18 Oct - 22 Oct	5	3	Problem on Shaft.	DME_ME_ppt_37	DME_ME_V_37		Machine Design By Khurmi Gupta ch.23.pg.820-884					
				Problem on Shaft.	DME_ME_ppt_38	DME_ME_V_38							
				Design of keys, ASME codes for shaft	DME_ME_ppt_39	DME_ME_V_39							
				Problem on Key	DME_ME_ppt_40	DME_ME_V_40							
				Design of springs: spring material, helical compression, tension springs	DME_ME_ppt_41	DME_ME_V_41		Machine Design By Khurmi Gupta ch.19.pg.620-685					
				Problem on Helical compression spring	DME_ME_ppt_42	DME_ME_V_42							
9	25 Oct - 30 Oct	5	3	Problem on Helical compression spring	DME_ME_ppt_43	DME_ME_V_43							
				Problem on Helical compression spring	DME_ME_ppt_44	DME_ME_V_44							
				Problem on Helical compression spring	DME_ME_ppt_45	DME_ME_V_45						30/11	
				Design and problem on Leaf spring	DME_ME_ppt_46	DME_ME_V_46							
				Problem on Leaf spring	DME_ME_ppt_47	DME_ME_V_47							
				Problem on Leaf spring	DME_ME_ppt_48	DME_ME_V_48							
10	8 Nov - 12 Nov	6	4	Design of screw jack.Problems on screw jack.	DME_ME_ppt_49	DME_ME_V_49		Machine Design By Khurmi Gupta ch.17.pg.624-676					
				Problems on screw jack.	DME_ME_ppt_50	DME_ME_V_50							
				Problems on screw jack.	DME_ME_ppt_51	DME_ME_V_51							
				Problems on screw jack.	DME_ME_ppt_52	DME_ME_V_52							
				Problems on screw jack.	DME_ME_ppt_53	DME_ME_V_53							
				Problems on screw jack.	DME_ME_ppt_54	DME_ME_V_54							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Gate/TCRT	Completion Date	Assignment/Tutorial Date	AC's sign
11	15 Nov - 20 Nov	5	4	Design of clutches and Problem on Clutches.	DME_ME_ppt_55	DME_ME_V_55		Machine Design By Khurmi Gupta ch.24,25.pg.885-961					
				Problem on Clutches.	DME_ME_ppt_56	DME_ME_V_56							
				Problem on Clutches.	DME_ME_ppt_57	DME_ME_V_57							
				Problem on Clutches.	DME_ME_ppt_58	DME_ME_V_58							
				Problem on Clutches.	DME_ME_ppt_59	DME_ME_V_59							
				Problem on Clutches.	DME_ME_ppt_60	DME_ME_V_60							
12		6	4	Design of Brakes and Problem on Brakes.	DME_ME_ppt_61	DME_ME_V_61		Machine Design By Khurmi Gupta ch.24,25.pg.885-961					
				Problem on Brakes.	DME_ME_ppt_62	DME_ME_V_62							
				Problem on Brakes.	DME_ME_ppt_63	DME_ME_V_63							
				Problem on Brakes.	DME_ME_ppt_64	DME_ME_V_64							
				Problem on Brakes.	DME_ME_ppt_65	DME_ME_V_65							
				Problem on Brakes.	DME_ME_ppt_66	DME_ME_V_66							
13	1 Dec- 8 Dec	Sessional II											

Sub. Teacher

Ac

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/Mech/ 21-22

Date: 23 / 8 / 2021

LESSON & TEACHING PLAN for MMM

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar | Sub: MMM | Year : 2021-22 | Sem:- 5

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	GATE/TCRT Date	Completion Date	Assignment/Tutorial Date	AC's sign
1	23 Aug - 28 Aug	6	1	Purpose, structure and elements of measuring system. Static characteristics of measurement system,elements including systematic, statistical characteristics, generalized model of system elements and	MMM_ME_ppt_01	MMM_ME_V_01	Available instrument show and explain how to calibrate	Mechanical Measurement & Control By Dr. D.S. Kumar Page no 1- 30	Measurement video		23/8		
					MMM_ME_ppt_02	MMM_ME_V_02			— " —	24/8/21	24/8		
					MMM_ME_ppt_03	MMM_ME_V_03			Youtube		25/8		
					MMM_ME_ppt_04	MMM_ME_V_04			— " —	28/8/21	27/8		
					MMM_ME_ppt_05	MMM_ME_V_05					31/8		
					MMM_ME_ppt_06	MMM_ME_V_06							
2	30 Aug- 4 Sep	6	1	calibration. Error measurement, error probability density function, error reduction. Introduction to dynamic characteristics of measurement system. Introduction to noise in measurement system.	MMM_ME_ppt_07	MMM_ME_V_07		Mechanical Measurement & Control By Dr. D.S. Kumar Page no 33-149	video on calibration		1/9		
					MMM_ME_ppt_08	MMM_ME_V_08			Error measu	31/8/21	3/9		
					MMM_ME_ppt_09	MMM_ME_V_09			Types of Errors from Youtube		4/9	4/9	
					MMM_ME_ppt_10	MMM_ME_V_10			Problem video	2/9/2021			
					MMM_ME_ppt_11	MMM_ME_V_11					4/9		
					MMM_ME_ppt_12	MMM_ME_V_12							

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	GATE/TCRT Date	Completion Date	Assignment/Tutorial Date	AC's sign
3	6 Sep - 10 Sep	6	2	Classification, Principle, Sensing elements, Signal conditioning elements, Construction, Range and working of instruments for measurement of Linear	MMM_ME_ppt_13	MMM_ME_V_13	Showing available Pressure Measuring instruments	Mechanical Measurement & Control By Dr. D.S. Kumar			6|9		
					MMM_ME_ppt_14	MMM_ME_V_14				7/9/2021	7|9		
					MMM_ME_ppt_15	MMM_ME_V_15					8|9		
					MMM_ME_ppt_16	MMM_ME_V_16				9/9/2021			
					MMM_ME_ppt_17	MMM_ME_V_17					8|9		
					MMM_ME_ppt_18	MMM_ME_V_18							
4	13 Sept-18 Sept	6	2	and Angular Displacement, Speed, Load, Strain, Force, Torque and Power. (Analytical treatment not included)	MMM_ME_ppt_19	MMM_ME_V_19		Mechanical Measurement & Control By Dr. D.S. Kumar			14|9		
					MMM_ME_ppt_20	MMM_ME_V_20				14/9/21	16|9		
					MMM_ME_ppt_21	MMM_ME_V_21					17|9	17|9	
					MMM_ME_ppt_22	MMM_ME_V_22				16/9/21	18|9		
					MMM_ME_ppt_23	MMM_ME_V_23							
					MMM_ME_ppt_24	MMM_ME_V_24							
5	20 Sept-24 Sept	5	2	Classification, Principle, Sensing elements, Signal conditioning elements, Construction, Range and working of instruments for measurement of Pressure, Vacuum, Sound, Light and Temperature. (Analytical treatment not included)	MMM_ME_ppt_25	MMM_ME_V_25		Mechanical Measurement & Control By Dr. D.S. Kumar			20|9		
					MMM_ME_ppt_26	MMM_ME_V_26				21/9/21	21|9		
					MMM_ME_ppt_27	MMM_ME_V_27					22|9		
					MMM_ME_ppt_28	MMM_ME_V_28				23/9/21	23|9		
					MMM_ME_ppt_29	MMM_ME_V_29					24|9		
					MMM_ME_ppt_30	MMM_ME_V_30							

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Hingna, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	GATE/TCRT Date	Completion Date	Assignment/Tutorial Date	AC's sign
6	27 Sept - 1 Oct	6	4	Standards of Measurement, Line, End and Wavelength standard. Working standards, Requirement of interchangeability, Allowance and Tolerance, Selective assembly. Measurement of Straightness and Flatness.	MMM_ME_ppt_31	MMM_ME_V_31		Mechanical Measurement & Control By Dr. D.S. Kumar			27/9		
					MMM_ME_ppt_32	MMM_ME_V_32				28/9/21	28/9		
					MMM_ME_ppt_33	MMM_ME_V_33					29/9	29/10	
					MMM_ME_ppt_34	MMM_ME_V_34				30/9/21	30/9		
					MMM_ME_ppt_35	MMM_ME_V_35					1/10		
					MMM_ME_ppt_36	MMM_ME_V_36							
7	4 Oct - 9 Oct			Sessional 1									
8	11 Oct - 16 Oct	6	4	Instruments for Linear and Angular Measurement. (Vernier, Angle gauge, Sine bar, Level indicator, Clinometers and Taper gauge)	MMM_ME_ppt_37	MMM_ME_V_37		Mechanical Measurement & Control By Dr. D.S. Kumar			11/10		
					MMM_ME_ppt_38	MMM_ME_V_38				12/10/2021	12/10		
					MMM_ME_ppt_39	MMM_ME_V_39					13/10		
					MMM_ME_ppt_40	MMM_ME_V_40				14/10/21	16/10		
					MMM_ME_ppt_41	MMM_ME_V_41					16/10		
					MMM_ME_ppt_42	MMM_ME_V_42							
9	18 Oct - 22 Oct	6	5	Limits and Fits, Tolerance analysis of Limits and Fits, Types of limit gauges,	MMM_ME_ppt_43	MMM_ME_V_43		Mechanical Measurement & Control By Dr. D.S. Kumar			18/10		
					MMM_ME_ppt_44	MMM_ME_V_44				19/10/21	19/10		
					MMM_ME_ppt_45	MMM_ME_V_45					20/10	20/10	
					MMM_ME_ppt_46	MMM_ME_V_46				21/10/21	21/10		
					MMM_ME_ppt_47	MMM_ME_V_47					22/10		
					MMM_ME_ppt_48	MMM_ME_V_48							

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Hingna, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	GATE/TCRT Date	Completion Date	Assignment/Tutorial Date	AC's sign
10	25 Oct - 30 Oct	6	5	Types of fit, Shaft and Hole basis system, Design of Limit gauge and Process planning sheet (Numerical treatment is expected).	MMM_ME_ppt_49	MMM_ME_V_49		Mechanical Measurement & Control By Dr. D.S. Kumar			25/10/21		
					MMM_ME_ppt_50	MMM_ME_V_50				26/10/21	26/10		
					MMM_ME_ppt_51	MMM_ME_V_51					27/10		
					MMM_ME_ppt_52	MMM_ME_V_52				28/10/21	28/10		
					MMM_ME_ppt_53	MMM_ME_V_53					29/10		
					MMM_ME_ppt_54	MMM_ME_V_54							
11	8 Nov - 12 Nov	6	6	Comparators: Mechanical, Optical, Electrical, Electronic, Pneumatic. Study and use of Optical profile projectors,	MMM_ME_ppt_55	MMM_ME_V_55		Mechanical Measurement & Control By Dr. D.S. Kumar			8/11		
					MMM_ME_ppt_56	MMM_ME_V_56				9/11/2021	9/11		
					MMM_ME_ppt_57	MMM_ME_V_57					10/11		
					MMM_ME_ppt_58	MMM_ME_V_58				11/11/2021	11/11		
					MMM_ME_ppt_59	MMM_ME_V_59					12/11	12/11	
					MMM_ME_ppt_60	MMM_ME_V_60							
12	15 Nov - 20 Nov	6	6	Tool maker's microscope and Autocollimator. Measurement of Screw thread and Gear tooth.	MMM_ME_ppt_61	MMM_ME_V_61		Mechanical Measurement & Control By Dr. D.S. Kumar			15/11		
					MMM_ME_ppt_62	MMM_ME_V_62				16/11/21	16/11		
					MMM_ME_ppt_63	MMM_ME_V_63					17/11		
					MMM_ME_ppt_64	MMM_ME_V_64				18/11/21	18/11		
					MMM_ME_ppt_65	MMM_ME_V_65					19/11		
					MMM_ME_ppt_66	MMM_ME_V_66					20/11		
13	1 Dec- 8 Dec	**Sessional II**											

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CCOEW/MECH / 20-21

Date: 20/ 8 / 2021

LESSON & TEACHING PLAN for Industrial Economics and Entrepreneurship Development

Department of Mechanical Department

Faculty Name: Aditya Kawadaskar | Sub: Industrial Engineering | Year : 2021-22 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	16Aug - 21Aug	SKILL DEVELOPMENT WEEK											
2	01 sept-4 sept'2021	5	1	Introduction of the subject		https://classroom.google.com/c/NDEzOTI0NDc1Mjk5/m/NDEzOTI0NDc1Mz		tpm-ssjz-pub		https://classroom.google.com/w/NDEzOTI	2/9/2021	https://classroom.google.com/w/NDEzOTI0NDc1	
				Economics		https://classroom.google.com/c/NDEzOTI0NDc1Mjk5/m/NDEzOTI0NDc1Mzcv/details		tpm-ssjz-pub		https://classroom.google.com/w/NDEzOTI0NDc1Mjk5/tc	2/9/2021	https://classroom.google.com/w/NDEzOTI0NDc1Mjk5/tc/NDEzOT	
				Classification of econonomics & Basic concept of economics, law of demand		https://classroom.google.com/c/NDEzOTI0NDc1Mjk5/m/NDEzOTI0NDc1Mz		tpm-ssjz-pub		https://classroom.google.com/w/NDEzOTI	3/9/2021	https://classroom.google.com/w/NDEzOTI0NDc1	
				Demand analysis: Definition, Types		https://classroom.google.com/c/NDEzOTI0NDc1M		tpm-ssjz-pub		https://classroom.google.com	8/9/2021	https://classroom.google.com/w	
				Determinants of demand		https://classroom.google.com/c/NDEzOTI0NDc1M		tpm-ssjz-pub		https://classroom.google.com	9/9/2021	https://classroom.google.com/w	
3	06sept to 11 sept'2021	6		Methods of demand forecasting		https://classroom.google.com/c/NDEzOTI0NDc1M		tpm-ssjz-pub		https://classroom.google.com	14/9	https://classroom.google.com/w	
				Elasticity of deamnd: Definition and Types		https://classroom.google.com/c/NDEzOTI0NDc1M		tpm-ssjz-pub		https://classroom.google.com	16/9	https://classroom.google.com/w	
				The law of diminishing marginal utility		https://classroom.google.com/c/NDEzOTI0NDc1Mjk5/m/NDEzOTI0NDc1Mz		tpm-ssjz-pub		https://classroom.google.com/w/NDEzOTI	17/9	https://classroom.google.com/w/NDEzOTI0NDc1	
				Measurement of elasticity of demand		https://classroom.google.com/c/NDEzOTI0NDc1M		tpm-ssjz-pub		https://classroom.google.com	20,21,22,23	https://classroom.google.com/w	
				Elasticity of deamndTypes		https://classroom.google.com/c/NDEzOTI0NDc1M		tpm-ssjz-pub		https://classroom.google.com	27,29,30	https://classroom.google.com/w	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity, Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Revision		https://classroom.google.com/c/NDEzOTI0NDc1Mjk5/m/NDEzOTI0NDc1Mzg1/details		tpm-ssjz-pub		https://classroom.google.com/w/NDEzOTI0NDc1Mjk5/tc/NDEzOTI0NDc1Mzg1	10-Nov	https://classroom.google.com/w/NDEzOTI0NDc1Mjk5/tc/NDEzOT	
4	6 Sept-10 Sept21	6		Production: concept and definition		https://classroom.google.com/c/NDEzOTI0NDc1Mjk5/m/NDEzOTI0NDc1Mzg1/details		tpm-ssjz-pub		https://classroom.google.com/w/NDEzOTI0NDc1Mjk5/tc/NDEzOTI0NDc1Mzg1	14/10	https://classroom.google.com/w	
			2,3	Forecasting and concepts		https://classroom.google.com/c/NDEzOTI0NDc1Mjk5/m/NDEzOTI0NDc1Mzg1/details		tpm-ssjz-pub		https://classroom.google.com/w/NDEzOTI0NDc1Mjk5/tc/NDEzOTI0NDc1Mzg1			
				Production function				tpm-ssjz-pub			13/10	https://classroom.google.com/w/NDEzOTI0NDc1Mjk5/tc/NDEzOT	
				Production FUNCTION				tpm-ssjz-pub			13/10	https://classroom.google.com/w	
				Factors of production				tpm-ssjz-pub			13/10	https://classroom.google.com/w/NDEzOTI0NDc1	
5	13 sept to 18sept 2021	6		Firm and Industry				tpm-ssjz-pub			13/10	https://classroom.google.com/w/NDEzOTI0NDc1	
				Law of Return				tpm-ssjz-pub			13/10	https://classroom.google.com/w/NDEzOTI0NDc1	
				Cost concepts, Fixed, Variable, Marginal and total cost				tpm-ssjz-pub					
				Cost concepts, Fixed, Variable, Marginal and total cost				tpm-ssjz-pub					
				Break even analysis, Depriciation methods and depriciation				tpm-ssjz-pub					
				Break even analysis, Depriciation methods and depriciation				tpm-ssjz-pub					
6	20 sept to 25 sept 2021	6		Inflation , its effects, policies				tpm-ssjz-pub					
				deflation, stagflation				tpm-ssjz-pub					
				Taxes, Direct and Indirect, Market and Market Structures				tpm-ssjz-pub					
				Perfect Competition, Monopoly, Monopolistic competiton, Oligopoly				tpm-ssjz-pub					
				Perfect Competition, Monopoly, Monopolistic competiton, Oligopoly				tpm-ssjz-pub					
			3,4	Price determination under Perfect Competition, Monopoly, Monopolistic competiton, Oligopoly				tpm-ssjz-pub					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity, Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	27 sept to 1 st oct' 2021	6		share market and its terminologies				tpm-ssjz-pub					
				Concept of creativity, innovation, invention, discovery				tpm-ssjz-pub					
				Methods of development				tpm-ssjz-pub					
				Convergent and divergent thinking, Introduction to IPR									
8	04 Oct-09Oct'2021			**Sessional1**									
9	11 Oct-16 Oct21	4	4,5	Patent and its laws				tpm-ssjz-pub					
				concept of Entrepreneurship, Entrepreneurship Meaning and Concept				tpm-ssjz-pub					
				Factors affecting entrepreneurship growth				tpm-ssjz-pub					
				Motives influecing entrepreneurship				tpm-ssjz-pub					
				Characteristics of entrepreneur				tpm-ssjz-pub					
				Types and functions of entrepreneur				tpm-ssjz-pub					
				Theories of motivation				tpm-ssjz-pub					
10	18 Oct-23 Oct2021	5	5	Achievement motivation				tpm-ssjz-pub					
				Women Entrepreneurship				tpm-ssjz-pub					
				Small Scale Industries: Features and Problems				tpm-ssjz-pub					
				Procedure of set up SSI				tpm-ssjz-pub					
				Policies governing to SSIs				tpm-ssjz-pub					
				Mclellands Motivation theory				tpm-ssjz-pub					

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity, Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	25Oct-30Oct 2021	6		Role of ssi				tpm-ssjz-pub					
				Advantages and limitations of SSI				tpm-ssjz-pub					
				Eventuation of concept of Entrepreneurship				tpm-ssjz-pub					
				Characteristic of an Entreprenurship				tpm-ssjz-pub					
12	08Nov-12Nov 2021	6		Financial institutions				tpm-ssjz-pub					
				entrepreneurship support system				tpm-ssjz-pub					
				Role of consultancy organisations				tpm-ssjz-pub					
				Latest SSI Schemes				tpm-ssjz-pub					
				Market survey				tpm-ssjz-pub					
13	15Nov-20Nov 2021	6	6	Project report				tpm-ssjz-pub					
				Project appraisal				tpm-ssjz-pub					
				Role to TCO, DIC, SIDC				tpm-ssjz-pub					
				Factors governing to project selection				tpm-ssjz-pub					
				PROJECT				tpm-ssjz-pub					
				SUBMISSION OF PROJECT				tpm-ssjz-pub					
14	22Nov-30Nov 21	Revision											

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CCOEW/ME/ 20-21

Date 01/08/2021

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Sushil Lanjewar								Sub: Computer Aided Design (CAD)		Sec:	Year : 2021-22		Sem:- VII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	16Aug - 21Aug			ONLINE SKILL DEVELOPMENT TRAINING									
2	23 - 27 Aug 21	5	1	Introduction of CAD, Difference between Conventional & CAD design,	ME7CAD7W02D230821L01	CAD_CH1_ppt01		3-4 Groups of students given different parts and create Conventional	CAD/CAM by Ibrahim Zeid ch 1,pg 14,17. ch.2, pg 27-38. pg. 533-537		23/08		
				Rasterisation techniques frame buffer, N-bit plane buffers, Simple color frame buffer,	ME7CAD7W02D240821L02	CAD_CH1_ppt02		http://cse18-iith.vlabs.ac.in/List%20of%20experiments.html?domain=Co			24/08		
				Algorithm for the generation of basic geometric entities like line (DDA Algorithm) with Numerical	ME7CAD7W02D250821L03	CAD_CH1_ppt03					25/08		
				Numerical on DDA Algorithm	ME7CAD7W02D260821L04	CAD_CH1_ppt04					26/08		27/08
				Numerical on DDA Algorithm	ME7CAD7W02D270821L05	CAD_CH1_ppt05		http://cse18-iith.vlabs.ac.in/List%20of%20experiments.html?domain=Co			27/08		
3	30 Aug - 4 Sep	5	1	Bresenham's line generation Method with Numerical	ME7CAD7W03D300821L06	CAD_CH1_ppt06		use of strings, use of CRT or LCD takean activity to	CAD/CAM by Ibrahim Zeid ch 9 pg 533-537		30/08		
				Numerical on Bresenham's Method	ME7CAD7W03D310821L07	CAD_CH1_ppt07					31/08		
				Numerical on Bresenham's Method	ME7CAD7W03D010921L08	CAD_CH1_ppt08		http://cse18-iith.vlab			01/09		
				Algorithm for the generation of basic geometric entities like circle & ellipse by using parametric & non-parametric equations	ME7CAD7W03D020921L09	CAD_CH1_ppt09					02/09		02/09
				Numericals on Circle generation	ME7CAD7W03D030921L10	CAD_CH1_ppt10					03/09		
4	6-10 Sep	5	2	Introduction to windowing & clipping (excluding algorithm), Window and Viewport, line clipping & polygon clipping	ME7CAD7W04D060921L10	CAD_CH2_ppt01		taking different 2D elements and group of students are	CAD/CAM by Ibrahim Zeid Ch 8 pg 465-511		04/09		
				Introduction to 2D transformation: Translation, Scaling, Rotation, Numericals on Translation	ME7CAD7W04D070921L11	CAD_CH2_ppt02					05/09		
				Numericals on Scaling	ME7CAD7W04D080921L12	CAD_CH2_ppt03					08/09		
				Numericals on Rotation	ME7CAD7W04D090921L13	CAD_CH2_ppt04					09/09		
				Numericla on Combination of Translation, Scaling, Rotation,	ME7CAD7W04D100921L14	CAD_CH2_ppt05					09/09		
				Numericla on Combination of Translation, Scaling, Rotation,	ME7CAD7W04D130921L15	CAD_CH2_ppt06					14/09		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no.edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
5	13-18 Sept	5	2	Introduction to 2D transformation: Reflection & Shear,	ME7CAD7W05D140921L16	CAD_CH2_ppt07		http://cse18-iith.vlab	CAD/CAM by Ibrahim Zeid Ch 8 pg 465-511		15/09		
				Numericals on Reflection & Shear,	ME7CAD7W05D150921L17	CAD_CH2_ppt08					16/9		
				Numericals on Reflection & Shear,	ME7CAD7W05D160921L18	CAD_CH2_ppt09							
				3D Transformation ; Translation, Scaling, Rotation, Reflection etc.	ME7CAD7W05D170921L19	CAD_CH2_ppt10							
				3D Transformation ; Translation, Scaling, Rotation, Reflection etc.	ME7CAD7W05D200921L20	CAD_CH2_ppt11							
				Numericla on 3D Transformation	ME7CAD7W05D210921L21	CAD_CH2_ppt12							
6	20-24 Sept. 21	5	2 & 3	Numericla on 3D Transformation	ME7CAD7W06D220921L22	CAD_CH2_ppt13			CAD/CAM by Ibrahim Zeid Ch 4 pg 135-239				
				Numericla on 3D Transformation	ME7CAD7W06D230921L23	CAD_CH2_ppt14							
				Techniques for Geometric Modeling: Graphic standards, parametric representation of geometry,	ME7CAD7W06D240921L24	CAD_CH3_ppt01		http://cse18-iith.vlab			24/09		
				Bezier curves,	ME7CAD7W06D290921L25	CAD_CH3_ppt02							
				Numericla on Bazier curves	ME7CAD7W06D300921L26	CAD_CH3_ppt03							
				Cubic spline curves, Cubic spline curves, Bspline curves,	ME7CAD7W06D011021L27	CAD_CH3_ppt04							
7	27 Sept.- 1 Oct. 2021	5	3	constructive solid geometry,	ME7CAD7W07D021021L28	CAD_CH3_ppt05			CAD/CAM by Ibrahim Zeid Ch 4 pg 135-239				
				Problems on constructive solid geometry,	ME7CAD7W07D031021L29	CAD_CH3_ppt06		http://cse18-iith.vlab					
				Feature Based modeling, Feature recognition, Design by feature,	ME7CAD7W07D041021L30	CAD_CH3_ppt07							
				Wire frame modeling, solid modeling of basic entities like box, cone, cylinder,	ME7CAD7W07D170921L31	CAD_CH3_ppt08					01/10		
				CSG & B- representation technique using set theory	ME7CAD7W07D180921L32	CAD_CH3_ppt09							
				Assembly modeling: Representation, mating conditions, representation schemes	ME7CAD7W07D190921L33	CAD_CH3_ppt10							
8	4-9 Oct.			Sessional Exam 1									
9	11-16 Oct. 2021	5	4	generation of assembly sequences and importance of precedence diagram	ME7CAD7W09D280921L34	CAD_CH3_ppt10			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg No 1-43				
				Introduction to Finite Element Analysis: Basic concept	ME7CAD7W09D290921L35	CAD_CH4_ppt01							
				One Dimensional Problem: Fundamental concept of finite element method, Plain stress and strain	ME7CAD7W09D300921L36	CAD_CH4_ppt02					16/10		
				Numericls on 1D Element: Plain stress and strain	ME7CAD7W09D011020L37	CAD_CH4_ppt02							
				Numericls on 1D Element: Plain stress and strain	ME7CAD7W09D031020L38	CAD_CH4_ppt02							
10	18 - 22 Oct. 21	5	4	Finite Element Modeling: Potential Energy Approach,	ME7CAD7W10D051020L39	CAD_CH4_ppt02			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg No 45-98				
				Finite Element Modeling: Potential Energy Approach,	ME7CAD7W10D061020L40	CAD_CH4_ppt02							
				Numericls on 1D Element PEA	ME7CAD7W10D071020L41	CAD_CH4_ppt02							
				Numericls on 1D Element PEA	ME7CAD7W10D081020L42	CAD_CH4_ppt02					22/10		
				Finite Element Modeling: Galerkin Approach,	ME7CAD7W10D091020L43	CAD_CH4_ppt02							
				Finite Element Modeling: Galerkin Approach,	ME7CAD7W10D101020L44	CAD_CH4_ppt02							
				Numericls on 1D Element GA	ME7CAD7W11D121020L45	CAD_CH4_ppt02							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	25 - 30 Oct. 21	5	4 & 5	Coordinate and Shape function	ME7CAD7W11D131020L46	CAD_CH4_ppt03			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg. No 45-98, pg no103-174				
				Finite Element Equations, Quadratic Shape Function, Temperature Effects,Torsion of a circular shaft	ME7CAD7W11D141020L47	CAD_CH4_ppt02							
				Finite Element Equations, Quadratic Shape Function, Temperature Effects,Torsion of a circular shaft	ME7CAD7W11D151020L48	CAD_CH4_ppt03					30/10		
				Truss & Two Dimensional FEM	ME7CAD7W11D161020L49	CAD_CH5_ppt01							
				Plane truss problems,	ME7CAD7W11D171020L50	CAD_CH5_ppt01							
12	8 - 12 Nov. 21	5	5 & 6	Plane truss problems,	ME7CAD7W12D191020L51	CAD_CH5_ppt01			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg. No 45-98, pg no103-174				
				Plane truss problems,	ME7CAD7W12D201020L52	CAD_CH5_ppt01							
				two dimensional problems using Constant strain triangle	ME7CAD7W12D211020L53	CAD_CH5_ppt02							
				Numericals	ME7CAD7W12D221020L54	CAD_CH5_ppt02					12/11		
				Numericals	ME7CAD7W12D231020L55	CAD_CH5_ppt02							
				two dimensional problems using Constant strain triangle	ME7CAD7W12D241020L56	CAD_CH6_ppt01							
13	15 - 20 Nov. 21	5	6	Numericals	ME7CAD7W13D261020L57	CAD_CH6_ppt01			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg. No 45-98, pg no103-174				
				Numericals	ME7CAD7W13D271020L58	CAD_CH6_ppt01							
				Derivation of shape functions for CST element	ME7CAD7W13D281020L59	CAD_CH6_ppt01							
				Optimization in Design Objectives of optimum design,	ME7CAD7W13D291020L60	CAD_CH6_ppt01					20/11		
				adequate and optimum design,	ME7CAD7W13D301020L61	CAD_CH6_ppt01							
				Johnson's Method of optimum design,	ME7CAD7W13D311020L62	CAD_CH6_ppt01							
14	22 - 26 Nov. 21	5	6	primary design equation,	ME7CAD7W13D311020L63	CAD_CH6_ppt02			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg. No 45-98, pg no103-174				
				subsidiary design equations and limit equations,	ME7CAD7W13D311020L64	CAD_CH6_ppt03							
				optimum design with normal and redundant specifications of simple machine elements of tension bar,	ME7CAD7W13D311020L65	CAD_CH6_ppt04							
				optimum design with normal and redundant specifications of simple machine elements of transmission shaft	ME7CAD7W13D311020L66	CAD_CH6_ppt05					26/11		
				optimum design with normal and redundant specifications of simple machine elements like: tension bar, transmission shaft	ME7CAD7W13D311020L67	CAD_CH6_ppt06							
				optimum design with normal and redundant specifications of simple machine elements of helical spring	ME7CAD7W13D311020L68	CAD_CH6_ppt07							
15				Sessional Exam II									

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CCOEW/ MECH / 22-23

Date: 04 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Design of Mechanical Drives (BEME705T) | SEM -ODD (2022-23) | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	8-12 August	4	1	Design of Coupling, Introduction to Coupling, Types of shaft coupling.	DMD_ME_ppt_01	DMD_ME_V_01		Machine Design By Khurmi Gupta , V.B Bhandari (330 -370)	2/8				
				Design of flange coupling with numerical	DMD_ME_ppt_01								
				Design of flange coupling with numerical	DMD_ME_ppt_01								
				Design of flange coupling with numerical	DMD_ME_ppt_01								
				Design of flexible bush coupling with numerical	DMD_ME_ppt_01								
2	16 -20 August	5	1	Design of flexible bush coupling with numerical	DMD_ME_ppt_01			Machine Design By Khurmi Gupta , V.B Bhandari (330 - 370)234]	2/8				
				Design of Bearings with introduction and tyes.	DMD_ME_ppt_02	DMD_ME_V_02							
				Types of Lubrication and oil seals	DMD_ME_ppt_02		Use of different oil present at home and applting in nut-bolt or hinjes of door and windows						
				Design of hydrodynamic journal bearings for radial loads with numerical	DMD_ME_ppt_02								
				Design of hydrodynamic journal bearings for radial loads with numerical	DMD_ME_ppt_02								
3	22-26 August	4	1&2	Design of ball and roller bearing for radial and thrust loads	DMD_ME_ppt_02	DMD_ME_V_03	Observe and analyse the bearing used in bycycle and types of load appled during running and steady condition.	Machine Design By Khurmi Gupta , V.B Bhandari (564-640)	2/9				
				Design of ball and roller bearing for radial and thrust loads with numerical	DMD_ME_ppt_02								
				Design of ball and roller bearing for radial and thrust loads with numerical.	DMD_ME_ppt_02								
				Design of ball and roller bearing for radial and thrust loads with numerical	DMD_ME_ppt_02								
				Failures of antifriction bearing, bearing housing.	DMD_ME_ppt_02								
				Design of Flat belt drive with introduction and types	DMD_ME_ppt_03	DMD_ME_V_04							

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Design of Mechanical Drives (BEME705T) | SEM -ODD (2022-23) | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
4	29 August-3 Sept.	4	2	Belt material, analysis of belt tension, condition for transmitting maximum power	DMD_ME_ppt_03			Machine Design By Khurmi Gupta , V.B Bhandari	6/9	03rd Septemb			
				Design of flat belt with numerical	DMD_ME_ppt_03								
				Design of flat belt and pulley with numerical	DMD_ME_ppt_03								
				Design of flat belt and pulley with numerical	DMD_ME_ppt_03								
				Design of V belt drive: Types of V-belt, analysis of V-belt tension	DMD_ME_ppt_03	DMD_ME_V_05							
				Design of V belt & pulley with numerical	DMD_ME_ppt_03								
5	05 -9 Septe.	5	2	Design of V belt & pulley with problem	DMD_ME_ppt_03			Machine Design By Khurmi Gupta , V.B Bhandari	9/9				
				Design of Roller chain drive: Velocity ratio and length of chain, design of chain, dimensions of	DMD_ME_ppt_04	DMD_ME_V_06	Observation and analyse the chain used in bycycle and bike.						
				Design of Roller chain drive with problem	DMD_ME_ppt_04								
				Design of Roller chain drive with numerical	DMD_ME_ppt_04								
				Design of wire rope drive: Introduction to wire rope, stresses in hoisting wire rope.	DMD_ME_ppt_04	DMD_ME_V_07							
				Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04								
6	12 -16 Septe.	5	4	Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04		Oservation and analysis of wire rope im Lift	Machine Design By Khurmi Gupta , V.B Bhandari	14/9	14th Sept.			
				Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04	DMD_ME_V_08							
				Design of wire rope, sheave and drum with numerical	DMD_ME_ppt_04								
				Design of wire rope, sheave and drum with numerical									
				Design of wire rope, sheave and drum with numerical									
				Design of Gears: Review of kinematics of gears & terminology, interference, tooth profiles, formative number of teeth	DMD_ME_ppt_05	DMD_ME_V_09							

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CCOEW/ MECH / 22-23

Date: 04 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | **Subject: Design of Mechanical Drives (BEME705T)** | **SEM -ODD (2022-23)** | **Sem:- VII**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
7	17-23 Sept			Sessional - I									
8	26 Sept-01 Oct	4		Design of Spur Gear drive with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	6/10				
				Design of Spur Gear drive with numerical									
				Design of Spur Gear drive with numerical									
				Design of Spur Gear drive with numerical									
				Design of Helical Gear drive with numerical	DMD_ME_ppt_06								
9	3 -7 Oct	5	4	Design of Helical Gear drive with numerical	DMD_ME_ppt_06			Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	7/10				
				Design of Helical Gear drive with numerical									
				Design of Helical Gear drive with numerical									
				Design of Bevel Gear Drive: Types of bevel gear, proportions of bevel gear, force analysis of bevel gear drive	DMD_ME_ppt_07	DMD_ME_V_10							
				Design of bevel gear drive with numerical									
				Design of bevel gear drive with numerical									
10	10-15 Oct.	5	4	Design of bevel gear drive with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	10/10	14th Oct			
				Design of bevel gear drive with numerical									
				Design of bevel gear drive with numerical									
				Design of Worm Gear Drive: Worm Gearing—AGMA Equation; Worm-Gear force analysis	DMD_ME_ppt_08	DMD_ME_V_11							
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									
11	17-21 Oct.	5	1	Design of Worm Gear Drive with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]	16/10				
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									
				Design of Worm Gear Drive with numerical									

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CCOEW/ MECH / 22-23

Date: 04 / 08 / 2022

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | Subject: Design of Mechanical Drives (BEME705T) | SEM -ODD (2022-23) | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
				Design of Worm Gear Drive with numerical									
12	24-28 Oct.			DIWALI VACCATION									
13	29 Oct.-5 Nov.	4		Design of Flywheel with Functions, Coefficient of fluctuation of energy	DMD_ME_ppt_09	DMD_ME_V_12		Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]					
				Coefficient of fluctuation of speed, energy storage in flywheel			Observation and analyse the flywheel used in motor byke						
				Stresses in flywheel, design of flywheel									
				Design of flywheel with numerical									
14	07-11 Nov	5	5	Design of flywheel with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]					
				Design of flywheel with numerical									
				Design of flywheel with numerical									
				Design of flywheel with numerical									
				Design of flywheel with numerical					18/10/23				
15	14 - 19 Nov	5		Design of flywheel with numerical				Machine Design By Khurmi Gupta , V.B Bhandari (430 - 550)356]					
				Design of flywheel with numerical									
				Design of I. C. Engine components	DMD_ME_ppt_10	DMD_ME_V_13							
				Introduction to selection of material for I. C. engine components									
				Design of cylinder and cylinder head									

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CCOEW/ME/ 20-21

Date: 5/08/2020

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar

Subject: ~~Heat Transfer~~ Energy Conversion II

SEM: VII (2020-21)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10 - 14 Aug 20	5	III	Internal Combustion Engines: Introduction, classification, components of I.C.Engines, working of four stroke S.I.	ME7ECII7W1D100820L01	EC2_ICE_1	EC2_ICE_V1		IC Engine by V. Ganesan, Ch. 1, Pages 1-42, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	10/8/20		
				working of two stroke and four stroke C.I. Engines,	ME7ECII7W1D110820L02	EC2_ICE_1	EC2_4San2S_V2				11/8/20		
				valve and port timing diagram. Advantages and disadvantages, applications.	ME7ECII7W1D120820L03	EC2_ICE_1	EC2_VT_V3				12/8/20		
				Combustion in S. I. Engine, stages of combustion, ignition lag, detonation.	ME7ECII7W1D130820L04	EC2_ICE_1	EC2__Comb_V4	https://vcal-iitk.vlabs.ac.in/list.html			13/8/20		
				Combustion in C. I. Engine, stages of combustion, delay period, diesel knock, abnormal combustion in S.I. and C.I. engines, detonation and knocking	ME7ECII7W1D140820L05	EC2_ICE_1	EC2__COMB_V5				14/8/20		
2	17- 21 Aug 20	5	III & IV	Fuel supply to S. I. Engine, carburetion, simple carburetor, components, operation	ME7ECII7W2D170820L06	EC2_ICE_1	EC2_Fuei_V6		IC Engine by V. Ganesan, Ch. 7 and 11, Pages 189-238, 323-355, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	17/8/20		
				MPFI. Fuel supply to C. I. Engine,	ME7ECII7W2D180820L07	EC2_ICE_1	EC2_MPFI_V7				18/8/20		
				air injection system, solid injection, fuel pump & fuel injector.	ME7ECII7W2D190820L08	EC2_ICE_1	EC2_Inject_V8				19/8/20		
				Unit 4 Testing of I. C. Engines:- Performance parameters, measurement of indicated, friction & brake power, measurement of speed, fuel & air consumption,	ME7ECII7W2D200820L09	EC2_ICE_2					20/8/20		
				calculation of indicated & brake thermal efficiency, volumetric efficiency, relative efficiency and mechanical efficiency, percentage of excess air.	ME7ECII7W2D210820L10	EC2_ICE_2					21/8/20		
				Numerical	ME7ECII7W3D240820L11	EC2_ICE_2					24/8/20		
				Heat balance sheet, exhaust gas calorimeter, exhaust analysis.	ME7ECII7W3D250820L12	EC2_ICE_2					25/8/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
3	24 - 29 Aug 20	5	I & II	Numerical	ME7ECII7W3D260820L13	EC2_ICE_2			IC Engine by V. Ganesan, Ch. 8 & 9, Pages 241-287. Ch. 15, Pages 457-571, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	25/8/20		
				Numerical	ME7ECII7W3D270820L14	EC2_ICE_2					26/8/20		
				performance characteristics, factors influencing the performance of I.C. engines, performance analysis of single and multi cylinder I. C. engines	ME7ECII7W3D280820L15	EC2_ICE_2					27/8/20		
4	31 Aug - 5 Sept. 20	5	I	performance analysis of single and multi cylinder I. C. engines	ME7ECII7W4D310820L16	EC2_ICE_2			Thermal Engineering, R. K. Rajput Pages 676-717, 9th Edition	https://forms.gle/hPhugk11XaoLUJXm6	28/8/20		
				Numerical	ME7ECII7W4D020920L17	EC2_ICE_2					29/8/20		
				Numerical	ME7ECII7W4D030920L18	EC2_ICE_2					31/8/20		
				Air Compressors:- Introduction, classification, applications. Positive displacement Compressors:- Reciprocating compressors: - Construction and working, isothermal, polytropic & adiabatic compression process,	ME7ECII7W4D040920L19	EC2_Compressor_1	EC2_Compressor_V9				1/9/20		
				Reciprocating Air Compessor : Work done with and without clearance, P-V diagram, volumetric efficiency,	ME7ECII7W4D050920L20	EC2_Compressor_1	EC2_Compressor_V10				2/9/20		
5	7 -12 Sept. 20	6	II	effect of clearance, isothermal efficiency,	ME7ECII7W5D070920L21	EC2_Compressor_1			Thermal Engineering, R. K. Rajput Pages 676-717,9th Edition	https://forms.gle/hPhugk11XaoLUJXm6	3/9/20		
				Numerical	ME7ECII7W5D080920L22	EC2_Compressor_1					4/9/20		
				methods for improving isothermal efficiency, volumetric efficiency, mechanical efficiency,	ME7ECII7W5D090920L23	EC2_Compressor_1					5/9/20		
				Numerical	ME7ECII7W5D100920L24	EC2_Compressor_1					7/9/20		
				Multistage compression, intercooling, condition for minimum work input	ME7ECII7W5D110920L25	EC2_Compressor_1	EC2_Compressor_V10				8/9/20		
				Numerical	ME7ECII7W5D120920L26	EC2_Compressor_1					9/9/20		
				Numerical	ME7ECII7W6D140920L27	EC2_Compressor_1							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	23- 27 May	3	IV	Indexing- simple, compound and Differential Indexing.	ME4MPW11D130221 L13	MP_ME_ppt_02			Hazra ch. 9, p. 347-356				
				Grinding operations, grinding wheel,	ME4MPW11D130221 L14	MP_ME_ppt_02							
				Specifications & selection, cylindrical & centreless grinding operation, surface grinding, tool & cutter grinding, time estimation	ME4MPW11D130221 L15	MP_ME_ppt_02							
12	30 May- 4 June	3	IV	Super finishing process: Honing, Lapping, polishing, buffing,	ME4MPW02D130221 L13	MP_ME_ppt_02		Concept of Grinding process with Emery paper with different grades and wooden part			17/5		
				polishing. buffing, 'metal spraying, Galvanizing and electroplating	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Process parameters and attainable grades of surface finish, surface measurement.	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Specifications & selection, cylindrical grinding operation	ME4MPW02D130221 L13	MP_ME_ppt_02							
13	6 - 10 June	3	IV & V	Attainable grades of surface finish surface measurement	ME4MPW02D130221 L13	MP_ME_ppt_02		Use of sharp tip of grater to make hole in Potato to understand the concept of drilling.	Hazra ch. 11, p. 397-406,		23/5		
				Drilling: introduction, tools for drilling, classification of drills, twist drills, drill size and	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Bench drilling machine, right drilling machine, radial drilling machine, universal drilling machine,	ME4MPW02D130221 L13	MP_ME_ppt_02							
14	13 - 18 June	3	V	Multisided drilling machine.Drilling machines operations,time estimation for drilling.	ME4MPW02D130221 L13	MP_ME_ppt_02							
				Reaming:Introduction, description of reamer, type of reaming operations.	ME4MPW02D130221 L13	MP_ME_ppt_02			Hazra ch. 11, p. 397-406,				
				Boring: Introduction, types of boring machine	ME4MPW02D130221 L13	MP_ME_ppt_02							
15	20 - 24 June	2	V	Horizontal boring machine,vertical boring machine,jigmachine,microboring. Boring operations.	ME4MPW15D130221 L13	MP_ME_ppt_02					27/5		
				Broaching:Introduction,typeofbroaches,nomenclatureofbroaches.typesofbroachingmachin	ME4MPW15D130221 L14	MP_ME_ppt_02							
16	27June- 2 July	Sessional II											

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CCOEW/MECH / 20-21 Date: 20/ 8 / 2021

LESSON & TEACHING PLAN for Industrial Engineering

Department of Mechanical Department

Faculty Name: Aditya Kawadaskar | Sub: Industrial Engineering | Year : 2021-22 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	16Aug - 21Aug			**SKILL DEVELOPMENT WEEK**									
2	23Aug - 27Aug	5	5	QC- Definition, function, characteristics, objectives	23.08.2021	IE_Unit5_ppt_01			Text Book of Statistical Quality Control: M Mahajan		2/8		
				QC-Characteristics, objectives		IE_Unit5_ppt_01		Characterictics of Different items like Pen, paper, Mobile and			24/8		
				Quality of design, quality of conformance		IE_Unit5_ppt_01		Activity on Mobile phones and its design			25/8		
				process control charts and process capability		IE_Unit5_ppt_01					26/8		
				Numericals	27.08.2021	IE_Unit5_ppt_01					27/8		
3	30Aug-04 Sept21	6		Numericals	30.8.2021	IE_Unit5_ppt_01					30/8		
				Sampling concepts		IE_Unit5_ppt_01					31/8	Tutorial 30/8/21	
				Acceptance Sampling		IE_Unit5_ppt_01		Sampling of Rice and Wheat			1/9		
				Numericals		IE_Unit5_ppt_01					2/9		
				OC curves. Inspection		IE_Unit5_ppt_01		of household Appliances			3/9		
				Inspection	3.9.2021	IE_Unit5_ppt_01	KOM_Unit3_V_01				4/9	Assignment 3/9/2021	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	6 Sept-10 Sept21	5	III	Numericals	6/9/2021	IE_Unit5_ppt_01			Text Book of Statistical Quality Control: M Mahajan		6/9		
				Forecasting and concepts		IE_Unit3_ppt_01					7/9		
				Methods of forecasting (Judgemental analysis),		IE_Unit3_ppt_01		Sales of Mahindra Thar based on its demand and Sale			8/9		
				Numericals		IE_Unit3_ppt_01					10/9		
				Exponential smoothing method	10/9/2021	IE_Unit3_ppt_01					10/9		
5	13Sept-18Sept21	6		Numericals	13/09/2021	IE_Unit3_ppt_01					10/9	Tutorial 13/9/21	
				Numericals		IE_Unit3_ppt_01			Text Book of Statistical Quality Control: M Mahajan		13/9		
				Time series analysis, least square method		IE_Unit3_ppt_01					14/9		
				Numericals		IE_Unit3_ppt_01					15/9		
				Numericals	17/09/2021	IE_Unit3_ppt_01					16/9		
				moving average method.		IE_Unit3_ppt_01					17/9		
				Numericals	20/09/2021	IE_Unit3_ppt_01					20/9		
6	20Sept-24 Sept 21	6		Maintainance, objectives and types		IE_Unit3_ppt_01		household items like Fan, Cooler, Bike etc			21/9		
			IV	Types of Maintainance		IE_Unit4_ppt_01					22/9		
				Types of Maintainance		IE_Unit4_ppt_01					23/9		
				Reliability and Maintainability	24/09/2021	IE_Unit4_ppt_01					24/9	Tutorial 24/9/21	
7	27 Sept-2Sept	5		Reliability and Maintainability	27/09/2021	IE_Unit4_ppt_01		case study on reliability of aeroplane			24/9	Assignment 14/9/2021	
				Failure data analysis, MTBT,		IE_Unit4_ppt_01			Text Book of Statistical Quality Control: M Mahajan		27/9	Tutorial 15/9/21	
				MTTR,Bath tub curve,		IE_Unit4_ppt_01					28/9		
				series,parallel and stand by system		IE_Unit4_ppt_01					29/9		
				Numericals	1/10/2021	IE_Unit4_ppt_01					30/9		

Faculty in Charge

Faculty in Charge

Dr. Milind Khanapurkar
Principal

Academic Coordinator

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Gate	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
8	04 Oct-09Oct			**Sessional1**									
9	11 Oct-16 Oct21	5	VI	SQC,	11/10/2021	IE_Unit6_ppt_01			Text Book of Statistical Quality Control: M Mahajan		11/10		
				quality assurance and quality planning,		IE_Unit6_ppt_01		Activity on Quality Circle. Group of students has to			12/10		
				quality audit and vendor qualiy rating		IE_Unit6_ppt_01					13/10		
				TQM,		IE_Unit6_ppt_01					14/10		
				ISO 9000,		IE_Unit6_ppt_01					15/10		
				BIS 14000,		IE_Unit6_ppt_01					15/10		
10	18 Oct-22 Oct22	5		philosphy of six sigma, approaches to quality improvement	18/10/2021	IE_Unit6_ppt_01					16/10		
			I	Work study productiity and its objectives,		IE_Unit1_ppt_01					6/9	Assignment 19/10/2021	
				types,Factor affecting productivity,		IE_Unit1_ppt_01					7/9	Tutorial 22/10/21	
				Tools and techniques to improve productivity, productivity measurement		IE_Unit1_ppt_01			Text Book of Statistical Quality Control: M Mahajan		8/9		
				Work study and methods study : Definitions, objectives,		IE_Unit1_ppt_01					10/9		
11	25Oct-30Oct 21	6		steps in method study,	25/10/2021	IE_Unit1_ppt_01					13/9	Assignment 25/10/2021	
				steps in method study,		IE_Unit1_ppt_01					14/9	Tutorial 30/10/21	
				process charts, string diagram,.		IE_Unit1_ppt_01			Text Book of Statistical		15/9		
				process charts, string diagram,.		IE_Unit1_ppt_01		activities while cooking			16/9		
				motion study, micro motion study, SIMO Chart		IE_Unit1_ppt_01					17/9		
				motion study, micro motion study, SIMO Chart	30/10/2021	IE_Unit1_ppt_01					18/9		

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Principal

Academic Coordinator

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Date	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book : Chapter no. Page no.edition no.	Test for quiz or ass	Correction Date	Assignment/Tut orial Date	Sign
12	08Nov-12Nov21	6	II	Work measurement : Objectives, definition,	8/11/2021	IE_Unit2_ppt_01			Quality Control: M Mahajan				
				Work measurement : Objectives, definition,		IE_Unit2_ppt_01							
				Work measurement : Objectives, definition,		IE_Unit2_ppt_01							
				stop watch study,		IE_Unit2_ppt_01							
				work sampling , PMTs, MTM	12/11/2021	IE_Unit2_ppt_01						Assignment 12/11/2021	
13	15Nov-20Nov21	6		Work factor method	15/11/2021	IE_Unit2_ppt_01			Text Book of Statistical Quality Control: M Mahajan				
				Ergonomics : Objectives, Human factors in Engg		IE_Unit2_ppt_01							
				Man machine system, display design,		IE_Unit2_ppt_01							
				design of controls,		IE_Unit2_ppt_01							
				Principles of motion economy		IE_Unit2_ppt_01							
				Work place design	20/11/2021	IE_Unit2_ppt_01		Design of Study ro					
14	22Nov-28Nov 21			Revision									

Sub. Teacher

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Maharshi Karve Stree Shikshan Samstha's
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Academic year

2020-21

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CCOEW/ME / 20-21

Date: 30/1 / 2021

LESSON & TEACHING PLAN for Engineering Thermodynamics

Department of Mechanical Enggineering

Faculty Name: Prof. Prasanna Mahankar | Sub: Engineering Thermodynamics | Sec: A | Year : 2020-21 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1st to 6 Feb	6	I	Introduction to Thermodynamics:	ME5ET5W1D010221L01	ET_1		Activity 1	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 1 & 2, Page 1-41	https://forms.gle/dYxra8zi8SrWX1KY9			
				Basic concepts of Thermodynamics, Systems and its forms,	ME5ET5W1D020221L02								
				Property, State, Process, Cycles, Thermodynamics equilibrium,	ME5ET5W1D030221L03								
				temperature, Zeroth law of thermodynamics,	ME5ET5W1D040221L04								
				Problem	ME5ET5W1D050221L05								
				Problem	ME5ET5W1D060221L06								
2	8 to 12 Feb	5	I	Introduction to First law of thermodynamics	ME5ET5W2D080221L07	ET_Energy_2		Activity 2	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 2&3, Page 26 - 69	https://forms.gle/UU6ZuEH6pCR6Ph1L7			
				Energy transfer,	ME5ET5W2D090221L08								
				Heat and Work,	ME5ET5W2D100221L09								
				Non-mechanical form of work.	ME5ET5W2D110221L10								
				Mechanical form of work,	ME5ET5W2D120221L11								
3	15 to 20	6	I	Ideal Gas: Gas laws-Boyle's law, Charle's law, Avagadro's law, process on P-V Diagram.	ME5ET5W1D030221L13	ET_3		Activity 3	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering	https://forms.gle/72z4Hm			
				Calculation of Heat transfer, Work done, Change in Internal Energy and Enthalpy	ME5ET5W1D030221L14							5/5/21	
				Equation of state, Specific Heat, Universal gas constant,	ME5ET5W1D030221L15								

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	link Teaching Aid	Ref. no,edition, No	MCQ for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Feb			Problem	ME5ET5W1D030221L16				Thermodynamics, P. K. Nag, Chap. 3 & 4, Page 41 - 86				
				Constant pressure, Constant volume,	ME5ET5W1D030221L17								
				Isothermal, Isentropic and Polytropic	ME5ET5W1D030221L18								
4	22 to 27 Feb	5	II	Unit II: First law of Thermodynamics for Closed System undergoing a process		ET_First Law_3		Activity 4	CP Arora, Thermodynamics, Chap. 4 & 5, page 105-221, Engineering Thermodynamics, P. K. Nag, Chap. 5, Page 87 -112 .	https://forms.gle/1BhBdngVsUvXG14U8			11/5/2021
				Unit II: First law of Thermodynamics for Closed System undergoing a process									
				cycle (Control Mass System)									
				First Law to Open System (Control Volume System),									
				Problems									
				Problems									
5	1 to 6 Mar	6	II	Steady Flow process		ET_SFEE_4		Activity 5	CP Arora, Thermodynamics, Chap. 4 & 5, page 105-221, Engineering Thermodynamics, P. K. Nag, Chap. 5, Page 87 -112				
				Steady Flow process apply to Nozzle, Turbine, Compressor,									27/5/2021
				Steady Flow process apply to Pump, Boiler, Throttling Device, Heat Exchanger.									
				Problems									
				Problems									
				Problems									
6	8 to 12 Mar	5	III	Unit III :- Second Law of Thermodynamics:- Introduction, Thermal Energy Reservoirs,		ET_2nd Law_5		Activity 6	CP Arora, Thermodynamics, Chap. 6, page 231-305, Engineering Thermodynamics, P.	https://forms.gle/T7sNRKzruukXWNY99			
				Kelvin-Plank and Clausius Statements,									
				Kelvin-Plank and Clausius Statements,									

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Nagpur-441110

Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	link Teaching Aid	Chapter no, Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Heat Engine, Refrigerator, Heat Pump,					K. Nag, Chap. 6, 7 & 8 Page 117 -225				
				Problems									
				Problems									
7	22 to 27 Mar	5	III	Perpetual Motion Machine I and II, Carnot Cycle,		ET_Entropy_6		Activity 7	CP Arora, Thermodynamics, Chap. 6, page 231-305, Engineering Thermodynamics, P. K. Nag, Chap. 6, 7 & 8 Page 117 -225	https://forms.gle/JL32HjBHERhzzUAy9			
				Thermodynamic Temperature scale. Entropy: Clausius Inequility,									
				Problem									
				Entropy, Principle of increase of Entropy,									
				Entropy, Principle of increase of Entropy,									
				Change in Entropy for different Thermodynamics Processes with T-S Diagram									
8	29 Mar to 3 Apr	5	IV	Reversible and Irreversible Processes,		ET_PPS_7		https://vlab.amrita.edu/index.php?sub=1&brch=194&sim=709&cnt=1	CP Arora, Thermodynamics, Chap. 3, page 55-96, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314				
				Availibility									
				Unit IV Properties of Steam: - Sensible Heat, Latent Heat, Critical State, Triple Point, Wet Steam									
				Phase change process									
				Formulae explaination									
				Problem									
9	5 to 9 Apr	5	IV	Dry Steam, Superheated Steam, Dryness Fraction,					CP Arora, Thermodynamics, Chap. 3, page 55-96, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314	https://forms.gle/dNvxwndNn3KmfKeZ9			
				Internal Energy of Steam, External Work Done									
				T-S Diagram, Mollier Chart, Work and Heat Transfer during various Thermodynamic Processes with steam as working fluid,									
				Determination of Dryness Fraction using various Calorimeter.									
				Problem									
				Problem									

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Samstha's

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CCOEW/MECH / 20-21

Date: 30/1 / 2021

LESSON & TEACHING PLAN for Control System Engineering

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar								Sub: Control System Engineering			Year : 2020-21		Sem:- VI
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb -6 Feb	6	I	Control System controls: Study of Control System components such as hydraulic actuators, Servomechanism D.C. and A.C. motor, liquid level control, Automobile Power Steering Control,	ME602CSEW01D010221 L01	CSE_CS_ppt_01	CSE_CS_V_01	MatLab Required	Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 Pg. 101-200		1|2		
					ME602CSEW01D020221 L02						2|2		
					ME602CSEW01D030221 L03		CSE_CS_V_02				3|2		
					ME602CSEW01D040221 L04						4|2		
					ME602CSEW01D050221 L05						5|2		
					ME602CSEW01D060221 L06						6|2		
2	8 Feb -13 Feb	6		Speed Control, Position control of Robotic Manipulator etc. Study and Analysis of performance characteristics, the concept of various types of system like machine tools, Prime movers, system generators, etc.	ME602CSEW02D080221 L07	CSE_CS_ppt_02			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 Pg. 101-200		8|2		
					ME602CSEW02D090221 L08		CSE_CS_V_03				9|2		
					ME602CSEW02D100221 L09		CSE_CS_V_04				10|2	10|2	
					ME602CSEW02D110221 L10						11|2		
					ME602CSEW02D120221 L11						12|2		
					ME602CSEW02D130221 L12						13|2		
3	15 Feb-20 Feb	6		Modeling of Mechanical System: Basic Elements of Control System – Open loop and Closed loop systems – Differential equation – Laplace Transform –Transfer function. Modeling of physical	ME602CSEW03D150221 L13	CSE_CS_ppt_03			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th		15|2		
					ME602CSEW03D160221 L14		CSE_CS_V_05				16|2		
					ME602CSEW03D170221 L15						17|2		
					ME602CSEW03D180221 L16		CSE_CS_V_06				18|2		

Faculty In Charge

HOD

Cummins College of Engineering for Women, Hingna, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Hingna, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				system like	ME602CSEW03D190221 L17				Edition, 2007 pg.201-300		19|2		
					ME602CSEW03D200221 L18						20|2		
4	22 Feb -27 Feb	6	I	Translational, rotational mechanical systems, Electric systems, Electronic system and Electro-mechanical system. Concept of transfer function & its determination for physical systems.	ME602CSEW04D220221 L19	CSE_CS_ppt_04			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 301-400		22|2		
					ME602CSEW04D230221 L20		CSE_CS_V_07				23|2		
					ME602CSEW04D240221 L21						24|2		
					ME602CSEW04D250221 L22						25|2		
					ME602CSEW04D260221 L23						26|2		
					ME602CSEW04D270221 L24						27|2		
5	1 Mar - 6 Mar	6	II	Transfer Function system Representation through Block Diagram and Signal Flow Graph: Block Diagram representation, Reduction Techniques for single and multiple input/output, Conversion of Block Diagram into Signal Flow Graph	ME602CSEW05D010321 L25	CSE_CS_ppt_05			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 401-500		28|2		
					ME602CSEW05D020321 L26		CSE_CS_V_08				2|3		
					ME602CSEW05D030321 L27		CSE_CS_V_09				3|3	3|3	
					ME602CSEW05D040321 L28						4|3		
					ME602CSEW05D050321 L29						5|3		
					ME602CSEW05D060321 L30						6|3		
6	8 Mar -13 Mar	6	II	Conversion of algebraic equation into Block Diagram and Signal Flow Graph. Transfer function through Block Diagram Simplification using Masons Gain Formula.	ME602CSEW06D080321 L31	CSE_CS_ppt_06			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 500-523		8|3		
					ME602CSEW06D090321 L32		CSE_CS_V_10				9|3		
					ME602CSEW06D100321 L33						10|3		
					ME602CSEW06D110321 L34		CSE_CS_V_11				11|3		
					ME602CSEW06D120321 L35						12|3		
					ME602CSEW06D130321 L36						13|3		
7	15 Mar - 20 Mar			Sessional 1									

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
8	22 Mar - 27 Mar	6	III	System Response & Time Domain Response Analysis: First and second order systems response to impulse, ramp and sinusoidal inputs, properties of unit step response of second order system, systems with velocity lag, Steady state errors and Error constants.Signals: Step, Ramp, Impulse, Parabolic and Periodic signals with their mathematical representation and characteristics.	ME602CSEW08D220321 L36	CSE_CS_ppt_07			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 550- 602		22|3		
					ME602CSEW08D230321 L37		CSE_CS_V_12				23|3		
					ME602CSEW08D240321 L38		CSE_CS_V_13				24|3		
					ME602CSEW08D250321 L39						25|3		
					ME602CSEW08D260321 L40						26|3		
					ME602CSEW08D270321 L41						27|3		
9	29 Mar - 3 April	6		Mode of Controls: Basic control actions and Industrial controllers, Introduction to P, PI and PID controllers their characteristics, representation and applications. Classification of industrial automatic controllers, control actions, proportional controllers, obtaining derivative and integral control action, effects of integral and derivative control action on system performance.	ME602CSEW09D290321 L42	CSE_CS_ppt_08			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 343- 421		29|3		
					ME602CSEW09D300321 L43						30|3		
					ME602CSEW09D310321 L44		CSE_CS_V_14				31|3	31|3	
					ME602CSEW09D010421 L45						1|4		
					ME602CSEW09D020421 L46						2|4		
					ME602CSEW09D030421 L47						3|4		
10	5 April - 10 April			**RE-Test**									
11	12 April - 17 April	6	IV	Control system analysis: Concept and types of stability, Routh-Hurwitz Criterion and its application for determination of stability, limitations. Root locus plot: Simple transfer functions transient response from root locus.	ME602CSEW11D120421 L48	CSE_CS_ppt_09			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 Pg. 501- 622		12|4		
					ME602CSEW11D130421 L49						13|4		
					ME602CSEW11D140421 L50		CSE_CS_V_15				14|4		
					ME602CSEW11D150421 L51						15|4		
					ME602CSEW11D160421 L52						16|4		
					ME602CSEW11D170421 L53						17|4		
				Frequency Domain analysis - Correlation between time and	ME602CSEW12D190421 L54	CSE_CS_ppt_10	CSE_CS_V_16		Control System Engineering, J.		19|4		
					ME602CSEW12D200421 L55						20|4		

Faculty In Charge

HOD

Dr. Milind Khanapurkar
Principal

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	19 April - 24 April	6	V	frequency responses of a second order System. Bode & Polar plot: Determination of Gain Margin, Phase Margin and their Stability from Bode and Polar plots.	ME602CSEW12D210421 L56				Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 638- 720				
					ME602CSEW12D220421 L57								
					ME602CSEW12D230421 L58								
					ME602CSEW12D240421 L59								
13	26 April - 1 May	6		Inverse Bode Plot, Transportation lag, System Identification from Bode plot.	ME602CSEW13D260421 L60	CSE_CS_ppt_11			Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 523-576				
					ME602CSEW13D270421 L61		CSE_CS_V_17						
					ME602CSEW13D280421 L62								
					ME602CSEW13D290421 L63								
					ME602CSEW13D300421 L64								
					ME602CSEW13D010521 L65								
14	3 May - 8 May	6		State space representation of Continuous Time systems: State equations, Transfer function from State Variable Representation – Solutions of the state equations, Concepts of Controllability and Observability, State space representation for Discrete time systems. Stability criterion: Introduction to control system design lag lead compensation, Feed Back Compensation and Pole -Zero	ME602CSEW14D030521 L66		CSE_CS_V_18		Control System Engineering, J. Nagrath and M.Gopal, New Age International Publishers, 5th Edition, 2007 pg. 725-812				
					ME602CSEW14D040521 L67		CSE_CS_V_19						
					ME602CSEW14D050521 L68	CSE_CS_ppt_12							
					ME602CSEW14D060521 L69								
					ME602CSEW14D070521 L70								
					ME602CSEW14D080521 L71								
16		Sessional II											

Sub. Teacher

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Faculty in Charge

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Maharshi Karve Stree Shikshan Samstha's

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CCOEW/MECH / 20-21

Date: 30/1 / 2021

LESSON & TEACHING PLAN for Mechatronix

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar/Prof.Kanchan Wagh/ Dr.B.P.Joshi							Sub: MTRX			Year : 2020-21		Sem:- VI
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb -6 Feb	6	I	Introduction to mechatronics: Review of sensors, transducers and solid state electronic devices (Only review, no questions to be set on these topics). Scope and elements of mechatronics, mechatronics design process, measurement system, requirements and types of control systems, feedback principle, Basic elements of feedback control systems, Classification of feedback control system.	ME604MTRXW01D0102 21L01	MTRX_CS_ ppt_01	MTRX_CS_ V_01	MatLab Required	Mechatronics - Integrated Mechanical Electronics System, K.P. Ramachandran, Wiley India Pvt. Ltd. New Delhi Pg. 101-200		1|2		
					ME604MTRXW01D0202 21L02						2|2		
					ME604MTRXW01D0302 21L03		MTRX_CS_ V_02				3|2		
					ME604MTRXW01D0402 21L04						4|2		
					ME604MTRXW01D0502 21L05						5|2		
					ME604MTRXW01D0602 21L06						6|2		
2	8 Feb -13 Feb	6		Examples of Mechatronics Systems such as Boat Autopilot, High-Speed Tilting trains, Automatic Car Park system, Coin counter, Engine management system, Antilock braking system (ABS) control, traffic controller, temperature controller, weigh-bridge, weather prediction, Automatic washing machine etc. General remarks on applications.	ME604MTRXW02D0802 21L07	MTRX_CS_ ppt_02			Mechatronics & Microprocessors, K.P. Ramachandran, Wiley India Pvt. Ltd., New Delhi.Pg. 101-200		8|2		
					ME604MTRXW02D0902 21L08		MTRX_CS_V _03				9|2	9|2|21	
					ME604MTRXW02D1002 21L09		MTRX_CS_V _04				10|2		
					ME604MTRXW02D1102 21L10						11|2		
					ME604MTRXW02D1202 21L11						12|2		
					ME604MTRXW02D1302 21L12						13|2		
3	15 Feb-20	6		Examples of Mechatronics Systems such as Boat Autopilot, High-Speed Tilting trains, Automatic Car Park system, Coin counter, Engine management system, Antilock braking system (ABS)	ME604MTRXW03D1502 21L13	MTRX_CS_ ppt_03			Mechatronics - Integrated Mechanical Electronics System, K.P.		15|2		
					ME604MTRXW03D1602 21L14		MTRX_CS_ V_05				16|2		
					ME604MTRXW03D1702 21L15						17|2		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Feb			Antilock braking system (ABS) control, traffic controller, temperature controller, weigh-bridge, weather prediction, Automatic washing machine etc. General remarks on applications.	ME604MTRXW03D1802 21L16		MTRX_CS_V_06		System, K.P. Ramachandran, Wiley India Pvt. Ltd. New Delhi pg.201-300		18/2		
					ME604MTRXW03D1902 21L17						19/2		
					ME604MTRXW03D2002 21L18						20/2		
4	22 Feb -27 Feb	6	II	System Interfacing and Data Acquisition: DAQS: Data acquisition systems (DAQS), data loggers, Supervisory control and data acquisition (SCADA), Communication methods. I/O hardware and Software at the Microprocessor: Level and Data width, Interfacing requirement, Buffers, Handshaking, Polling and interrupt, Digital communication, Parallel communication, Serial communication, Peripheral interface	ME604MTRXW04D2202 21L19	MTRX_CS_ppt_04			Mechatronics & Microprocessors, K.P. Ramachandran, Wiley India Pvt. Ltd., New Delhi. pg. 301-400				
					ME604MTRXW04D2302 21L20		MTRX_CS_V_07				22/2		
					ME604MTRXW04D2402 21L21						23/2		
					ME604MTRXW04D2502 21L22						24/2		
					ME604MTRXW04D2602 21L23						25/2	25/2	
					ME604MTRXW04D2702 21L24						26/2		
5	1 Mar - 6 Mar	6	II	Analogue to Digital and Digital to Analogue Conversations: Introduction to digital signal processing (DSP), Data flow in DSPs, Block diagrams and typical layouts. Components of interconnections and Impedance Matching: Impedance characteristics, Cascade connection of devices, Impedance matching in mechanical systems, interfacing microcontroller output with actuators.	ME604MTRXW05D0103 21L25	MTRX_CS_ppt_05			Mechatronics - Integrated Mechanical Electronics System, K.P. Ramachandran, Wiley India Pvt. Ltd. New Delhi pg. 401-500		1/3		
					ME604MTRXW05D0203 21L26		MTRX_CS_V_08				2/3		
					ME604MTRXW05D0303 21L27		MTRX_CS_V_09				3/3		
					ME604MTRXW05D0403 21L28						4/3		
					ME604MTRXW05D0503 21L29						5/3		
					ME604MTRXW05D0603 21L30						6/3		
6	8 Mar -13 Mar	6	II	Interfacing Motor Drives: Drives units- DC drives, Variable frequency drives (VFD), Scalar and Vector drives, Stepper motor driver and controller.	ME604MTRXW06D0803 21L31	MTRX_CS_ppt_06			Mechatronics & Microprocessors, K.P. Ramachandran, Wiley India Pvt. Ltd., New Delhi. pg. 500-523		8/3		
					ME604MTRXW06D0903 21L32		MTRX_CS_V_10				9/3		
					ME604MTRXW06D1003 21L33						10/3		
					ME604MTRXW06D1103 21L34		MTRX_CS_V_11				11/3		
					ME604MTRXW06D1203 21L35						12/3		
					ME604MTRXW06D1303 21L36						13/3		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	15 Mar - 20 Mar			Sessional 1									
8	22 Mar - 27 Mar	6	III	Actuating Systems: Review of Mechanical Actuating Systems: Mechanical systems, Types of motion, Cams, Gears, Ratchet and Pawl, Belt & chain drives, Bearings, Preload, Mechanical aspects of motor selection. (Only review, no questions to be set on these topics)Electrical Actuating Systems: Mechanical switches and relays, solenoids, state switchessolenoids, DC Servomotors, Stepper motor.	ME604MTRXW08D2203 21L36	MTRX_CS_ ppt_07			Mechatronics - Integrated Mechanical Electronics System, K.P. Ramachandran, Wiley India Pvt. Ltd. New Delhi pg. 550- 602		22/3		
					ME604MTRXW08D2303 21L37		MTRX_CS_V_12				23/3		
					ME604MTRXW08D2403 21L38		MTRX_CS_V_13				24/3		
					ME604MTRXW08D2503 21L39						25/3		
					ME604MTRXW08D2603 21L40						26/3		
					ME604MTRXW08D2703 21L41						27/3		
9	29 Mar - 3 April	6		Pneumatics & Hydraulic Actuating Systems: Pneumatics & Hydraulic Systems, directional control valves, pressure control valves, servo and proportional control valves, Process control valves, cylinder sequencing and cascade control, rotary actuators, Identifications of graphical symbols for Pneumatic and Hydraulic circuits.	ME604MTRXW09D2903 21L42	MTRX_CS_ ppt_08			Mechatronics & Microprocessors, K.P. Ramachandran, Wiley India Pvt. Ltd., New Delhi. pg. 343- 421		29/3		
					ME604MTRXW09D3003 21L43						30/3		
					ME604MTRXW09D3103 21L44		MTRX_CS_ V_14				31/3	31/3	
					ME604MTRXW09D0104 21L45						1/4		
					ME604MTRXW09D0204 21L46						2/4		
					ME604MTRXW09D0304 21L47						3/4		
10	5 April - 10 April			RE-Test									
11	12 April - 17 April	6	IV	Digital logic: Number system, Logic gates, Boolean algebra, Karnaugh map, Applications of gates, Sequential logic. Introduction – Components of Microprocessors: Number systems, arithmetic operations on binary numbers, 8-bit, 16-bit, 32-bit microprocessors.8085 Microprocessor: Pin configurations of 8085, architecture of the execution unit, memory segmentation in 8085, architecture of bus interface unit of 8085, building	ME604MTRXW11D1204 21L48	MTRX_CS_ ppt_09			Mechatronics - Integrated Mechanical Electronics System, K.P. Ramachandran, Wiley India Pvt. Ltd. New Delhi Pg. 501- 622		12/4		
					ME604MTRXW11D1304 21L49						13/4		
					ME604MTRXW11D1404 21L50		MTRX_CS_ V_15				14/4		
					ME604MTRXW11D1504 21L51						15/4		
					ME604MTRXW11D1604 21L52						16/4		
					ME604MTRXW11D1704 21L53						17/4		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	19 April - 24 April	6	V	Programmable Logic Controller: Introduction to PLCs, Basic structure of PLC, Principle of operation, input and output processing, PLC programming language, ladder diagram, ladder diagrams circuits, timer counters, internal relays, master control, jump control, shift registers, data handling, and manipulations, analogue input and output, selection of PLC for application.	ME604MTRXW12D1904 21L54	MTRX_CS_ppt_10	MTRX_CS_V_16		Programmable Logic Controllers, John W Webb and Ronald A Reis, Prentice Hall, Inc., 1999.pg. 638-720		19/4		
					ME604MTRXW12D2004 21L55						20/4		
					ME604MTRXW12D2104 21L56						21/4		
					ME604MTRXW12D2204 21L57						22/4		
					ME604MTRXW12D2304 21L58						23/4		
					ME604MTRXW12D2404 21L59						24/4		
13	26 April - 1 May	6	V	Application of PLC control: Extending and retracting a pneumatic piston using latches, control of two pneumatic pistons, control of process motor, control of vibrating machine, control of process tank, control of conveyer motor etc.	ME604MTRXW13D2604 21L60	MTRX_CS_ppt_11			Programmable Logic Controllers, John W Webb and Ronald A Reis, Prentice Hall, Inc., 1999.pg. 523-576		26/4	26/4	
					ME604MTRXW13D2704 21L61		MTRX_CS_V_17				27/4		
					ME604MTRXW13D2804 21L62						28/4		
					ME604MTRXW13D2904 21L63						29/4		
					ME604MTRXW13D3004 21L64						30/4		
					ME604MTRXW13D0105 21L65						1/5		
14	3 May - 8 May	6	VI	Introduction to SCADA: Functionality, applications, development, evaluation and benefits of SCADA. Introduction to Electronics Interface Subsystems: Transistor- Transistor logic (TTL), Complimentary metal-oxide semiconductor (CMOS) interfacing, sensor interfacing, motor isolation schemes, buffer IC breakers, over current sensing, resettable fuses. Introduction to Micro Electro	ME604MTRXW14D0305 21L66		MTRX_CS_V_18		Mechatronics & Microprocessors, K.P. Ramachandran, Wiley India Pvt. Ltd., New Delhi. pg. 725-812		3/5		
					ME604MTRXW14D0405 21L67		MTRX_CS_V_19				4/5		
					ME604MTRXW14D0505 21L68	MTRX_CS_ppt_12					5/5		
					ME604MTRXW14D0605 21L69						6/5		
					ME604MTRXW14D0705 21L70						7/5		
					ME604MTRXW14D0805 21L71						8/5		
16		Sessional II											

Sub. Teacher

Ac

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/ME/ 20-21

Date: 29/01/2021

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Sushil Lanjewar								Sub: Automation In Production		Sec:	Year : 2020-21		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition, No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	25 Jan -30 Jan			ONLINE SKILL DEVELOPMENT TRAINING							30/01		
1	01 Feb - 6 Feb	5	1	Definition, types, reasons,	ME8AIP8W01D010221L01	AIP_CH1_ppt01		Group/ Each of students make search papers for New Trends in Automation & Make some charts / http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 6-21, 401-411.		06/02	Tutorial 01 / 6/02/21	
				strategies for automating, levels of automation	ME8AIP8W01D020221L02	AIP_CH1_ppt02							
				arguments for and against automation	ME8AIP8W01D030221L03	AIP_CH1_ppt03							
				Organization and information processing in manufacturing	ME8AIP8W01D040221L04	AIP_CH1_ppt04							
				Automated Flow 'Lines- Methods of work part transport,	ME8AIP8W01D050221L05	AIP_CH1_ppt05							
2	08 Feb - 13 Feb	5	1	Buffer storage	ME8AIP8W02D080221L06	AIP_CH1_ppt06		making some small models for work part transport http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 448-460		13/02		
				Analysis of flow lines -General terminology and analysis,	ME8AIP8W02D090221L07	AIP_CH1_ppt07							
				Analysis of flow lines -General terminology and analysis, (numericals)	ME8AIP8W02D100221L08	AIP_CH1_ppt08							
				analysis of transfer lines without storage	ME8AIP8W02D110221L09	AIP_CH1_ppt09							
				analysis of transfer lines without storage (Numericals)	ME8AIP8W02D120221L10	AIP_CH1_ppt10							
3	15 Feb - 20 Feb	5	1	partial automation,	ME8AIP8W03D150221L11	AIP_CH1_ppt11		http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 448-460, 142-181, 188-212		20/02	Assgt 01 / 19/02/21	
				manual assembly lines Line Balancing Problem,	ME8AIP8W03D160221L12	AIP_CH1_ppt12							
				Line Balancing Problem,	ME8AIP8W03D170221L13	AIP_CH1_ppt13							
				Methods of line balancing (Largest Candidate Rule & RPW) (L C R , RPW only)	ME8AIP8W03D180221L14	AIP_CH1_ppt14							
				Methods of line balancing (Largest Candidate Rule & RPW) (L C R , RPW only)	ME8AIP8W03D190221L15	AIP_CH1_ppt15							
4	22 Feb - 27 Feb	5	2	Numerical Control Production Systems -Basic concepts,	ME8AIP8W04D220221L16	AIP_CH2_ppt01		Making some mdels & posters for NC & CNC http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 142-181, 188-212		27/02		
				coordinate system and machine motion	ME8AIP8W04D230221L17	AIP_CH2_ppt02							
				Types of NC systems -Point to point, straight cut and continuous path	ME8AIP8W04D240221L18	AIP_CH2_ppt03							
				Machine control unit and other components,	ME8AIP8W04D250221L19	AIP_CH2_ppt04							
				part programming and tape formats.	ME8AIP8W04D260221L20	AIP_CH2_ppt05							

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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CCOEW/ME/ 20-21

Date 29/01/2021

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Sushil Lanjewar								Sub: Automation In Production		Sec:	Year : 2020-21		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition, No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
5	1 March - 6 March	5	2	method of part programming, Introduction of manual part programming (NC words)	MEKAIP8W05	AIP_CH2_ppt06		Hadns on Practice on MPP and industril machine Part programming http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover, Pg. No. 142-181, 188-212 CNC Machines By. P.N. Pabla Pg. No. 55-70		06/03		
				method of part programming, Introduction of manual part programming (NC words)	MEKAIP8W05	AIP_CH2_ppt07							
				method of part programming, Introduction of manual part programming (NC words)	MEKAIP8W05	AIP_CH2_ppt08							
				APT programming in details,	MEKAIP8W05	AIP_CH2_ppt09							
				APT programming in details,	MEKAIP8W05	AIP_CH2_ppt10						Tutorials 02/ 5/03/21	
6	8 March - 13 March	4	2 & 3	Directed numerical control. Computer numerical control.	MEKAIP8W06	AIP_CH2_ppt11		Hadns on Practice on APT using CAM module software http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 214-247		09/03	Assgt 02 / 09/03/21	
				Adaptive control. Applications of NC.	MEKAIP8W06	AIP_CH2_ppt12							
				Industrial Robotics -Introduction, robot anatomy,	MEKAIP8W06	AIP_CH3_ppt01							
				accuracy and repeatability and other specifications.	MEKAIP8W06	AIP_CH3_ppt02							
7	15 March - 20 March			Sessional Exam 1									
8	22 March - 27 March	5	3	end effectors,	MEKAIP8W08	AIP_CH3_ppt03		with the help Mircorcontller/Arduino use of Sensors and how to program http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 214-247		28/03		
				sensors,	MEKAIP8W08	AIP_CH3_ppt04							
				introduction to robot programming,	MEKAIP8W08	AIP_CH3_ppt05							
				introduction to robot programming,	MEKAIP8W08	AIP_CH3_ppt06							
				safety monitoring. Robotapplications -Characteristics of robot applications.	MEKAIP8W08	AIP_CH3_ppt07						Tutorial 03 / 22/03/21	
9	29 March - 3 April	4	3 & 4	work cell layout, robot applications in materialhandling, processing, assembly and inspection.	MEKAIP8W09	AIP_CH3_ppt08		with the help of final year projects students will do different programmings for AGVs http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 214-247, 274-		05/04	Assnt 03/ 29/03/21	
				Automated Guided Vehicle Systems -Types: Driverless trains, AGVS pallet trucks,	MEKAIP8W09	AIP_CH4_ppt01							
				AGVS unit-load carriers. Vehicle guidance & routing,	MEKAIP8W09	AIP_CH4_ppt02							
				Traffic control & safety, System management,	MEKAIP8W09	AIP_CH4_ppt03							
10	5 April - 10 April	5	4	Analysis of AGVS systems,	MEKAIP8W10	AIP_CH4_ppt04		Vertual industrial Visit tour http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 276-		10/04		
				Analysis of AGVS systems,	MEKAIP8W10	AIP_CH4_ppt05							
				AGVS applications.	MEKAIP8W10	AIP_CH4_ppt06							

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Date 29/01/2021

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				Automated Storage & Retrieval System Types Unit load AS/RS, mini load AS/RS	MEAAIP8W10	AIP_CH4_ppt07			305				
				man on board AS/RS, automated item retrieval system, deep lane AS/RS -	MEAAIP8W10	AIP_CH4_ppt08							
11	12 April - 17 April	3	4	Basic components & special features of AS/RS	MEAAIP8W11	AIP_CH4_ppt09		http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No.314-329		17/04		
				Carousel storage systems, work in process	MEAAIP8W11	AIP_CH4_ppt10							
				quantitative analysis	MEAAIP8W11	AIP_CH4_ppt11						Tutorial 04 / 17/04/21	
12	19 April - 24 April	4	5	inspection principles & methods -100% automated inspection,	MEAAIP8W12	AIP_CH5_ppt01		http://vlabs.iitkgp.ac.in/cim/	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 507-530, 540-560				
				off-line & on -line inspection, distributed inspection & final inspection,	MEAAIP8W12	AIP_CH5_ppt02							
				Sensor technologies to, automated inspection,	MEAAIP8W12	AIP_CH5_ppt03					24/04		
				coordinate measuring Machine Construction, operation & benefits,	MEAAIP8W12	AIP_CH5_ppt04							
				processing & analysis, interpretation, machine vision applications,	MEAAIP8W12	AIP_CH5_ppt05						Tutorial 05 / 24/04/21	
13	26 April - 1 May	5	5 & 6	Group Technology: Part families, parts classification & coding, Opitz classification systems production	MEAAIP8W13	AIP_CH5_ppt06		at wokshop students will separate the different tools / work pieces to understand the Part famiity	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 540-560, 720-732, 749				
				Flow analysis, Machine cell design -composite part concept, types of cell design,	MEAAIP8W13	AIP_CH5_ppt07							
				best machine arrangement, benefits of group technology	MEAAIP8W13	AIP_CH5_ppt08					03/05		
				manufacturing control, Computer integrated manufacturing	MEAAIP8W13	AIP_CH6_ppt01							
				manufacturing control, Computer integrated manufacturing	MEAAIP8W13	AIP_CH6_ppt02						Tutorial 06 / 30/04/21	
14	3 May - 7 May	5	5	Flexible manufacturing systems - Components, Types of systems,	MEAAIP8W14	AIP_CH6_ppt03		Group of students will make mini model FMS system	Automation, Production systems, & Computer Integrated Manufacturing By M. P. Groover Pg. No. 540-560, 720-732, 749				
				FMS layout configuration computer functions,	MEAAIP8W14	AIP_CH6_ppt04							
				data files, system reports, FMS benefits	MEAAIP8W14	AIP_CH6_ppt05					10/05		
				Computer aided process planning - Retrieval CAPP systems,	MEAAIP8W14	AIP_CH6_ppt06							
				generative CAPP systems, benefits of CAPP	MEAAIP8W14	AIP_CH6_ppt07						Assnt 04/ 07/05/21	
15				Sessional Exam II									

Total Lectures 60

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Cummins College of Engineering for Women, Nagpur

Lab Practicals Plan

CCOEW/Department of MECH / Even sem 2020-21

Department: Mechanical Engg. **Semster: VIII Sem**

Subject: Automation In Production **Faculty Name: S. R. Lanjewar**

			Batch # 1				Batch # 2					
Sr. no	Pi	Name of Experiment	Planned Date	Perform Date	No. Journals received	No. of Viva done	Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark	Principal
	print	print	print	fill	fill	fill	print	fill	fill	fill	fill	
1	P1	Study of Automation.	2-Feb-21	16/02								
2	P2	Study of NC System.	16-Feb-21	02/03								
3	P3	Performance, Simulation on CNC lathe (at least two complex geometries).	2-Mar-21	16/03								
4	P4	Performance, Simulation on CNC milling (at least two complex geometries).	16-Mar-21	30/03								
5	P5	Introduction and Programming on APT.	30-Mar-21	06/04								
6	P6	Case Study on Automated System of any Industry.	6-Apr-21	20/04								
7	P7	Study/Performance on Robot.	20-Apr-21	04/05								
8	P8	Part Coding and Group Technology.	4-May-21	04/05								

Subject Teacher
S.R. Lanjewar

HOD
P. Mahankar

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women
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Maharshi Karve Stree Shikshan Samstha's
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CCOEW/MECH / 20-21

Date: 30/1 / 2021

LESSON & TEACHING PLAN

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar								Sub: Advance Manufacturing Technique			Year : 2020-21		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb -6 Feb	6	I	Non Traditional Machining process: Need, classification & historical development. Economics & application of Non-Traditional process for machining. High speed grinding. Hot & Cold machining.	ME803AMTW01D010221L01	AMT_CS_ppt_01	AMT_CS_V_01		Manufacturing Science, Ghosh & Malik, East West Press. Pg. 202-258		1/2/21		
					ME803AMTW01D020221L02						2/2/21		
					ME803AMTW01D030221L03		AMT_CS_V_02				3/2/21		
					ME803AMTW01D040221L04						4/2		
					ME803AMTW01D050221L05						5/2		
					ME803AMTW01D060221L06						6/2		
2	8 Feb -13 Feb	6	I	Economics & application of Non-Traditional process for machining. High speed grinding. Hot & Cold machining.	ME803AMTW02D080221L07	AMT_CS_ppt_02			Manufacturing Science, Ghosh & Malik, East West Press. Pg. 202-258		8/2		
					ME803AMTW02D090221L08		AMT_CS_V_03				9/2		
					ME803AMTW02D100221L09		AMT_CS_V_04				10/2	10/2	
					ME803AMTW02D110221L10						11/2		
					ME803AMTW02D120221L11						12/2		
					ME803AMTW02D130221L12						13/2		
3	15 Feb-20 Feb	6	II	Abrasive Jet Machining, Mechanics of AJM-process parameters & Machining parameters.	ME803AMTW03D150221L13	AMT_CS_ppt_03			Manufacturing Science, Ghosh & Malik, East West Press.Pg.279- 310		15/2		
					ME803AMTW03D160221L14		AMT_CS_V_05				16/2		
					ME803AMTW03D170221L15						17/2		
					ME803AMTW03D180221L16		AMT_CS_V_06				18/2		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrgine Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
					ME803AMTW03D190221L17						19/2		
					ME803AMTW03D200221L18						20/2		
4	22 Feb -27 Feb	6	II	Ultrasonic Machining process, mechanics, process parameters & control, effect of USM on materials. Water Jet Machining.	ME803AMTW04D220221L19	AMT_CS_ppt_04			Manufacturing Science, Ghosh & Malik, East West Press. Pg. 312-329		22/2		
					ME803AMTW04D230221L20		AMT_CS_V_07				23/2		
					ME803AMTW04D240221L21						24/2		
					ME803AMTW04D250221L22						25/2		
					ME803AMTW04D260221L23						26/2		
					ME803AMTW04D270221L24						27/2		
5	1 Mar - 6 Mar	6	III	Electro-Chemical Machining: Electrochemistry of ECM. Electrochemical Grinding.	ME803AMTW05D010321L25	AMT_CS_ppt_05			Manufacturing Science, Ghosh & Malik, East West Press.Pg.379- 410		1/3	1/3/21	
					ME803AMTW05D020321L26		AMT_CS_V_08				2/3		
					ME803AMTW05D030321L27		AMT_CS_V_09				3/3		
					ME803AMTW05D040321L28						4/3		
					ME803AMTW05D050321L29						5/3		
					ME803AMTW05D060321L30						6/3		
6	8 Mar -13 Mar	6	III	Electric Discharge Machining. Electron Beam, Laser Beam and Plasma Arc Machining.	ME803AMTW06D080321L31	AMT_CS_ppt_06			Manufacturing Science, Ghosh & Malik, East West Press.pg. 379-410		8/3		
					ME803AMTW06D090321L32		AMT_CS_V_10				9/3		
					ME803AMTW06D100321L33						10/3		
					ME803AMTW06D110321L34		AMT_CS_V_11				11/3		
					ME803AMTW06D120321L35						12/3		
					ME803AMTW06D130321L36						13/3		
7	15 Mar - 20 Mar			Sessional 1									

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Re ce Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
8	22 Mar - 27 Mar	6	IV	Unconventional welding techniques such as Inert Gas (MIG & TIG), Electric Resistance welding, Oxyacetylene pressure welding,	ME803AMTW08D22032 1L36	AMT_CS_ppt_07			Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg.310-356		22/3		
					ME803AMTW08D23032 1L37		AMT_CS_V_12				23/3		
					ME803AMTW08D24032 1L38		AMT_CS_V_13				24/3	24/3	
					ME803AMTW08D25032 1L39						25/3		
					ME803AMTW08D26032 1L40						26/3		
					ME803AMTW08D27032 1L41						27/3		
9	29 Mar - 3 April	6	IV	Laser Beam welding, Electron Beam welding, Plasma Arc welding, Atomic Hydrogen welding & Submerged Arc welding, Stud welding.	ME803AMTW09D29032 1L42	AMT_CS_ppt_08			Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg.358-385		29/3		
					ME803AMTW09D30032 1L43						30/3		
					ME803AMTW09D31032 1L44		AMT_CS_V_14				31/3		
					ME803AMTW09D01042 1L45						1/4		
					ME803AMTW09D02042 1L46						2/4		
					ME803AMTW09D03042 1L47						3/4		
10	5 April - 10 April			**RE-Test**									
11	12 April - 17 April	6	V	Solid Phase welding techniques such as Ultrasonic welding, Friction welding,	ME803AMTW11D12042 1L48	AMT_CS_ppt_09			Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg. 392-427		12/4		
					ME803AMTW11D13042 1L49						13/4		
					ME803AMTW11D14042 1L50		AMT_CS_V_15				14/4		
					ME803AMTW11D15042 1L51						15/4		
					ME803AMTW11D16042 1L52						16/4		
					ME803AMTW11D17042 1L53						17/4		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refr Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	19 April - 24 April	6	V	Friction welding with recent development in Welding, Economics and application of Non-Traditional processes for welding.	ME803AMTW12D190421L54	AMT_CS_ppt_10	AMT_CS_V_16		Textbook of Production Engineering, P.C. Sharma, S. Chand & Co. Pg. 430-497		19/4		
					ME803AMTW12D200421L55						20/4		
					ME803AMTW12D210421L56						21/4		
					ME803AMTW12D220421L57						22/4		
					ME803AMTW12D230421L58						23/4		
					ME803AMTW12D240421L59						24/4		
13	26 April - 1 May	6	VI	Advance casting process: Metal mould casting, continuous casting, squeeze casting, vacuum mould casting,	ME803AMTW13D260421L60	AMT_CS_ppt_11			Advanced Machining Processes, V.K. Jain, Allied Publishers. Pg.254 - 276		26/4		
					ME803AMTW13D270421L61		AMT_CS_V_17				27/4		
					ME803AMTW13D280421L62						28/4		
					ME803AMTW13D290421L63						29/4		
					ME803AMTW13D300421L64						1/5		
					ME803AMTW13D010521L65								
14	3 May - 8 May	6	VI	evaporative pattern casting, ceramic shell casting, centrifugal casting, slush casting.	ME803AMTW14D030521L66		AMT_CS_V_18		Advanced Machining Processes, V.K. Jain, Allied Publishers. Pg.254 - 276		3/5		
					ME803AMTW14D040521L67		AMT_CS_V_19				4/5		
					ME803AMTW14D050521L68	AMT_CS_ppt_12					5/5		
					ME803AMTW14D060521L69						6/5		
					ME803AMTW14D070521L70						7/5		
					ME803AMTW14D080521L71						8/5		
16		Sessional II											

Sub. Teacher

Ac

Faculty in Charge

HOD

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CCOEW/ MECH / 20-21

Date: 30 / 07 / 2020

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | **Subject: Manufacturing** | **SEM -ODD (2020-21)** | **Sem:- III**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	10 August-14 August	5	1	Introduction to casting.	ME304MPW01D100820L01	MP_ME_ppt_01	MP_ME_V_01	Activity of pouring wax and pouring of water for ice making	1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425];	13/8				
				Pattern and it's types.	ME304MPW01D110820L02	MP_ME_ppt_01								
				Pattern making and Materials for pattern	ME304MPW01D120820L03	MP_ME_ppt_01								
				Pattern making allowances and Color codes	ME304MPW01D130820L04	MP_ME_ppt_01								
				Core making and types of core. Core material & its properties	ME304MPW02D140820L05	MP_ME_ppt_01								
2	17 August-21 August	5	1 & 2	Moulding and it's types like sand moulding.	ME304MPW02D170820L06	MP_ME_ppt_01	MP_ME_V_02	Activity for (sand and clay) moulding	1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425];	20/8				
				Sand composition, Moulding sand properties.	ME4MPW02D180820L07	MP_ME_ppt_01								
				Moulding machines, Shell moulding, CO2 moulding.	ME304MPW02D190820L08	MP_ME_ppt_01	MP_ME_V_03							
				Gating System and Elements of gating systems	ME304MPW02D200820L09	MP_ME_ppt_01								
				Gating design. Pouring equipments, Riser design	ME304MPW02D210820L10	MP_ME_ppt_01								
3	24 August-29 August	6	2	Sand mould casting	ME304MPW03D240820L11	MP_ME_ppt_01	MP_ME_V_04		1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing	26/8				
				Melting furnaces -Types. Electric furnace, Induction Furnace	ME4MPW03D250820L12	MP_ME_ppt_02								
				Cupola construction & operation.	ME304MPW03D260820L13	MP_ME_ppt_02								
				Types of Casting Processes, Special casting processes such as investment Casting	ME304MPW03D270820L14	MP_ME_ppt_03	MP_ME_V_05							
				Centrifugal casting and types	ME304MPW03D280820L15	MP_ME_ppt_03	MP_ME_V_06							
				Slush and Die Casting.	ME304MPW03D290820L16	MP_ME_ppt_03								
4	31 August-05 Septe.	6	2 & 3	Cleaning, inspection	ME304MPW04D310820L17	MP_ME_ppt_03			1) Manufacturing Science - Ghosh & Malik [2) Workshop Technology (Volume I)- Hajra Chaudhary 3)Manufacturing Technology- P.N.Rao	29/				
				casting defects and	ME304MPW04D010920L18	MP_ME_ppt_03								
				Foundry mechanizing	ME304MPW04D020920L19	MP_ME_ppt_03								
				Introduction to metal Joining	ME304MPW04D030920L20	MP_ME_ppt_04								
				Arc welding Processes, Electrodes, weldability of Metals	ME304MPW04D040920L21	MP_ME_ppt_04								
				Welding equipments. Fixtures, Gas Welding Processes	ME304MPW04D050920L22	MP_ME_ppt_04								

Faculty

H. O. D.

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CCOEW/ MECH / 20-21

Date: 30/07/2020

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale | **Subject: Manufacturing** | **SEM -ODD (2020-21)** | **Sem:- III**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
5	07 -12 Septe.	5	3	TIG Welding, MIG Welding	ME304MPW05D070920L23	MP_ME_ppt_04	MP_ME_V_07		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume 1)- Hajra Chaudhary3)Textbook of Production Engineering - P.C.	9/9				
				Solid state welding,	ME304MPW05D080920L24	MP_ME_ppt_04	MP_ME_V_08							
				Thermit welding	ME304MPW05D090920L25	MP_ME_ppt_04								
				Electroslag welding	ME304MPW05D100920L26	MP_ME_ppt_04								
				Spot Welding,	ME304MPW05D110920L27	MP_ME_ppt_04								
				Defects & Inspection of Welding Joints.	ME304MPW05D120920L28	MP_ME_ppt_04								
6	14 -19 Septe.	6	4	Introduction to Forming Process for metals and Mechanics of forging process	ME304MPW06D140920L28	MP_ME_ppt_05	MP_ME_V_09	Analysis of	1) Production Technology -R. K. Jain 2) Production Engg. - P.C.Sharma 3)Non-Conventional Manufacturing Processes, H.S. Shan, 4) Soft notes from IIT	16/9				
				Rolling and it's types, Determination of Rolling pressure and roll specification force	ME304MPW06D150920L29	MP_ME_ppt_05	MP_ME_V_10							
				Extrusion and it's types	ME304MPW06D160920L30	MP_ME_ppt_05	MP_ME_V_11							
				Forging and Determination of forging forces and	ME304MPW06D170920L31	MP_ME_ppt_05		Activity to understand extrusion						
				Drawing and it's types	ME304MPW06D180920L32	MP_ME_ppt_05	MP_ME_V_12							
				Applications of forming proceses	ME304MPW06D190920L33	MP_ME_ppt_05								
7	21-25 Septe.			Sessional - I										
8	28 Sept.- 03 Oct.	5	5	Introduction to Press Working	ME304MPW08D280920L34	MP_ME_ppt_06			1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume 1)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	2/10				
				Classification of Press Working Equipment (hammer/press) capacity required	ME304MPW08D290920L35	MP_ME_ppt_06								
				Types of presses and Press terminology	ME304MPW08D300920L36	MP_ME_ppt_06								
				Types of dies, Die and punch allowance	ME304MPW08D011020L37	MP_ME_ppt_06								
				Force analysis in press, Die cutting operation	ME304MPW08D031020L38	MP_ME_ppt_06								
9	05 Oct.- 10 Oct.	5	5	Drive force and torque, power loss in bearing	ME304MPW09D051020L39	MP_ME_ppt_06			1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume 1)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	7/10				
				Introduction to shaping operations	ME304MPW09D061020L40	MP_ME_ppt_06								
				Introduction to bending operations	ME304MPW09D071020L41	MP_ME_ppt_06								
				Introduction to forming operations	ME304MPW09D081020L42	MP_ME_ppt_06								
				Introduction to drawing operations	ME304MPW09D091020L43	MP_ME_ppt_06								
				Types of drawing operations	ME304MPW09D091020L44	MP_ME_ppt_07								

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

CCOEW/ME/ 20-21

Date: 5/08/2020

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar | Subject: Heat Transfer | SEM: V (2020-21)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
	10 - 14 Aug 20	5	I	Introduction to basic modes of heat transfer, conduction, convection & radiation.	ME5HT5W1D100820L01	HT_HT_01			Heat & Mass Transfer by R.K. Rajput. Ch. 1 & 2, Page 1-24, 27-37, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	10/8/20		
				Laws of heat transfer & conservation of energy requirement.	ME5HT5W1D110820L02	HT_HT_01		http://htv-au.vlabs.ac.in/Heat_Transfer_by_Conduc			11/8/20		
				General heat conduction equation in cartesian,	ME5HT5W1D120820L03	HT_HCE_02					12/8/20		
				Cylindrical and spherical coordinates.	ME5HT5W1D130820L04	HT_HCE_02	Conductio n_V1				13/8/20		
				Numerical	ME5HT5W1D140820L05	HT_N_C_03					14/8/20		
2	17- 21 Aug 20	5	I	One dimensional steady state heat conduction equation for the plane wall,	ME5HT5W2D170820L06	HT_1D_04			Heat & Mass Transfer by R.K. Rajput, Ch. 2, Page 35-132, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	17/8/20		
				cylinder and sphere,	ME5HT5W2D180820L07	HT_1D_04					18/8/20		
				overall heat transfer coefficient. Thermal resistance of composite structure,	ME5HT5W2D190820L08	HT_1D_04					19/8/20		
				Numerical	ME5HT5W2D200820L09	HT_N_1D_05					20/8/20		
				Numerical	ME5HT5W2D210820L10	HT_N_1D_05					21/8/20		
3	24 - 29 Aug 20	5	I & II	Unit I : contact resistance, variable thermal conductivity,	ME5HT5W3D240820L11	HT_VC_06			Heat & Mass Transfer by R.K. Rajput, Ch. 2, Page 142-200, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	26/8/20		
				Unit 2 : Conduction with internal heat generation for plane wall,	ME5HT5W3D250820L12	HT_IHG_07					27/8/20		
				cylinder and sphere.	ME5HT5W3D260820L13	HT_N_IHG_08					28/8/20		
				Numerical	ME5HT5W3D270820L14	HT_N_IHG_08					27/8/20		
				Numerical	ME5HT5W3D280820L15	HT_N_IHG_08					28/8/20		
4	31 Aug - 5 Sept. 20	5	II	Extended surface, types of fins. Fins of uniform cross section area, temperature distribution, heat transfer rate,	ME5HT5W4D310820L16	HT_FIN_09			Heat & Mass Transfer by R.K. Rajput, Ch. 2, Page 203-250, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	29/8/20		
					ME5HT5W4D020920L17	HT_FIN_09					31/8/20		
				fin efficiency & effectiveness Error in temperature measurement.	ME5HT5W4D030920L18	HT_FIN_09	HT_FIN_V2				1/9/20		
				Numerical	ME5HT5W4D040920L19	HT_N_FIN_10					2/9/20		
				Numerical	ME5HT5W4D050920L20	HT_N_FIN_10					3/9/20		
				Unsteady state heat transfer. lumped heat	ME5HT5W5D070920L21	HT_USH_11							

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
5	7 -12 Sept. 20	6	II	capacity analysis,	ME5HT5W5D080920L22	HT_USH_11			Heat & Mass Transfer by R.K. Rajput, Ch. 4, Page 290-336, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	4|9|20		
				Heisler's charts. Biot Number, Fourier's Number & its significance. Tutorial	ME5HT5W5D090920L23	HT_USH_11					5|9|20		
					ME5HT5W5D100920L24	HT_USH_11					7|9|20		
				Numerical	ME5HT5W5D110920L25	HT_N_USH_12					8|9|20		
				Unit III Forced and Free Convection	ME5HT5W5D120920L26	HT_CONV_13							
6	14-19 Sept. 20	4	III	Concept of hydrodynamics & thermal boundary layer thickness,	ME5HT5W6D140920L27	HT_CONV_13		http://htv-au.vlabs.ac.in/heat-thermodynamics/Ne	Heat & Mass Transfer by R.K. Rajput, Ch.7, Page 373 -492, 5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	9|9|20		
				local and average heat transfer coefficient.	ME5HT5W6D150920L28	HT_CONV_13					10|9|20		
				physical significance of non-dimensional parameter.	ME5HT5W6D160920L29	HT_CONV_13					11|9|20		
				Flow of high, moderate & low Prandtl number, fluid flow over a flat plate.	ME5HT5W6D170920L30	HT_CONV_13					14|9|20		
	21-25 Sept			Sessional I									
7	28 Sept - 3 Oct	5	III	Empirical co-relations for external, internal	ME5HT5W7D280920L31	HT_CONV_13	HT_Conve		Heat & Mass Transfer by R.K. Rajput, Ch.7 & 8, Page 373 -492,	https://forms.gle/Hu4hvnRz5Pv4ix6Y8			
				For Forced: Empirical co-relations for external, internal flows, laminar & turbulent flow through conduits. Unit IV For Free: Empirical Co-relations for cylinders and spheres, heat transfer with phase change,	ME5HT5W7D290920L32	HT_CONV_13		http://htv-au.vlabs.ac.in/heat-thermodynamics/Heat_Transfer_by_Natural_Convection/			17|9|20		
				Grashoff's number, Rayleigh number, flow over horizontal and vertical plate,	ME5HT5W7D300920L33	HT_CONV_13					18|9|20		
				Numerical	ME5HT5W7D011020L34	HT_N_CONV_14					28|9|20		
				Numerical	ME5HT5W7D031020L35	HT_N_CONV_14					28|9|20		
8	5- 10 Oct 20	6	III & IV	Numerical	ME5HT5W8D051020L36	HT_N_CONV_14			Heat & Mass Transfer by R.K. Rajput 506-530, 539-570,5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	29|9|20		
				Numerical	ME5HT5W8D061020L37	HT_N_CONV_14					30|9|20		
				Numerical	ME5HT5W8D071020L38	HT_N_CONV_14					1|10|20		
				Dimensional analysis applied to forced convection. ,	ME5HT5W8D081020L39	HT_CONV_13					3|10|20		
				Pool boiling curve & regimes of pool boiling,	ME5HT5W8D091020L40	HT_CONV_13	HT_PoolBoiling_V4				5|10|20		
				Film & Drop wise condensation, laminar film condensation on vertical surface, on horizontal tubes, effect of super heated & non-condensable gases on condensation heat transfer	ME5HT5W8D101020L41	HT_CONV_13					6|10|20		
11	12 - 17 Oct 20	5	IV & V	Dimensional analysis applied to free or Natural convection.	ME5HT5W9D121020L42	HT_CONV_13			Heat & Mass Transfer by R.K. Rajput 539-570, 673-687. 5th	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	7|10|20		
				Unit V: Radiation, spectrum of radiation, black body radiation, radiation intensity, laws of radiation-Kirchoffs, Plancks, Weins displacement law, Stefan Boltzmann & Lamberts Co-sine law.	ME5HT5W9D131020L43	HT_R_15	HT_Radiation_V5	http://htv-au.vlabs.ac.in/heat-thermodynamics/Black_Body_Radiation/			8|10|20		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Sanstha's
Vanmala College of Engineering for Women
Hingna, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
				Emissivity, Absorbtivity, Transmissivity, Reflectivity, Radiosity, Emissive power,	ME5HT5W9D141020L44	HT_R_15			Edition		9/10/20		
				Radiation network, , shape factor & its laws,	ME5HT5W9D151020L45	HT_R_15		http://htv-au.vlabs.ac.in/heat-			10/10/20		
				Numerical	ME5HT5W9D161020L46	HT_R_15					12/10/20		
12	19 -24 Oct	6	V	Radiation exchange between parallel plate	ME5HT5W10D191020L47	HT_R_15			Heat & Mass Transfer by R.K. Rajput Page 688-764, 5th Edition		13/10/20		
				Numerical	ME5HT5W10D201020L48	HT_R_15					14/10/20		
				Numerical	ME5HT5W10D211020L49	HT_R_15					15/10/20		
				Heat exchanger : Classification, overall heat	ME5HT5W10D221020L50	HT_HE_16	HT_HE_V6				16/10/20		
				LMTD & effectiveness,	ME5HT5W10D231020L51	HT_HE_16					17/10/20		
				Numerical	ME5HT5W10D241020L52	HT_HE_16					19/10/20		
13	26 -31 Oct 20	6	V	Numerical	ME5HT5W11D261020L53	HT_HE_16			Heat & Mass Transfer by R.K. Rajput 574-669,5th Edition	https://forms.gle/Hu4hvnRz5Pv4ix6Y8	20/10/20		
				NTU method of heat exchanger analysis for parallel,	ME5HT5W11D271020L54	HT_HE_16					21/10/20		
				Numerical	ME5HT5W11D281020L55	HT_HE_16					22/10/20		
				Counter flow & cross flow arrangement, design aspect of heat exchangers,	ME5HT5W11D291020L56	HT_HE_16					23/10/20		
				Introduction to compact heat exchanger, Heat Pipe,	ME5HT5W11D301020L57	HT_HE_16					26/10/20		
				Mass transfer	ME5HT5W11D311020L58	HT_HE_16					29/10/20		
17				Sessional II									

Faculty in Charge

HOD

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Maharshi Karve Stree Shikshan Samstha's
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Cummins College of Engineering for Women, Nagpur

CCOEW/Mech/ 20-21

Date: 8 / 8 / 2020

LESSON & TEACHING PLAN for MMM

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar | Sub: MMM | Year : 2020-21 | Sem:- 5

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8 Aug - 14 Aug	6	1	Purpose, structure and elements of measuring system. Static characteristics of measurement system,elements including systematic, statistical characteristics, generalized model of system elements and	ME505MMMW01D080820L01	MMM_ME_ppt_01	MMM_ME_V_01	Available instrument show and explain how to calibrate	Mechanical Measurement & Control By Dr. D.S. Kumar Page no 1- 30		08/08/20		
					ME505MMMW01D100820L02	MMM_ME_ppt_02	MMM_ME_V_02				10/8/20	10/8/20	
					ME505MMMW01D118201L03	MMM_ME_ppt_03	MMM_ME_V_03				11/8/20		
					ME505MMMW01D120820L04	MMM_ME_ppt_04	MMM_ME_V_04				12/8/20		
					ME505MMMW01D130820L05	MMM_ME_ppt_05	MMM_ME_V_05				13/8		
					ME505MMMW01D140820L06	MMM_ME_ppt_06	MMM_ME_V_06				14/8		
2	17 Aug-22Aug	6	1	calibration. Error measurement, error probability density function, error reduction. Introduction to dynamic characteristics of measurement system. Introduction to noise in measurement system.	ME505MMMW02D170820L07	MMM_ME_ppt_07	MMM_ME_V_07		Mechanical Measurement & Control By Dr. D.S. Kumar Page no 33-149		17/8		
					ME505MMMW02D180820L08	MMM_ME_ppt_08	MMM_ME_V_08				18/8		
					ME505MMMW02D190820L09	MMM_ME_ppt_09	MMM_ME_V_09				19/8		
					ME505MMMW02D200820L10	MMM_ME_ppt_10	MMM_ME_V_10				20/8		
					ME505MMMW02D210820L11	MMM_ME_ppt_11	MMM_ME_V_11				21/8		
					ME505MMMW02D220820L12	MMM_ME_ppt_12	MMM_ME_V_12				22/8		

Faculty in Charge

HOD

Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women
Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	21 Sept-26 Spt	6	4	Standards of Measurement, Line, End and Wavelength standard. Working standards, Requirement of interchangeability, Allowance and Tolerance, Selective assembly. Measurement of Straightness and Flatness.	ME505MMMW07D210920L31	MMM_ME_ppt_31	MMM_ME_V_31		Mechanical Measurement & Control By Dr. D.S. Kumar		21|9		
					ME505MMMW07D220920L32	MMM_ME_ppt_32	MMM_ME_V_32				22|9		
					ME505MMMW07D230920L33	MMM_ME_ppt_33	MMM_ME_V_33				23|9		
					ME505MMMW07D240920L34	MMM_ME_ppt_34	MMM_ME_V_34				24|9		
					ME505MMMW07D250920L35	MMM_ME_ppt_35	MMM_ME_V_35				25|9		
					ME505MMMW07D260920L36	MMM_ME_ppt_36	MMM_ME_V_36				26|9		
8	28 Sep - 3 Oct	6	4	Instruments for Linear and Angular Measurement. (Vernier, Angle gauge, Sine bar, Level indicator, Clinometers and Taper gauge)	ME505MMMW08D280920L37	MMM_ME_ppt_37	MMM_ME_V_37		Mechanical Measurement & Control By Dr. D.S. Kumar		28|9		
					ME505MMMW08D290920L38	MMM_ME_ppt_38	MMM_ME_V_38				29|9		
					ME505MMMW08D300920L39	MMM_ME_ppt_39	MMM_ME_V_39				30|9		
					ME505MMMW08D011020L40	MMM_ME_ppt_40	MMM_ME_V_40				01|10		
					ME505MMMW08D021020L41	MMM_ME_ppt_41	MMM_ME_V_41				2|10		
					ME505MMMW08D031020L42	MMM_ME_ppt_42	MMM_ME_V_42				3|10		
9	5 Oct - 10 Oct	6	5	Limits and Fits, Tolerance analysis of Limits and Fits, Types of limit gauges,	ME505MMMW09D051020L43	MMM_ME_ppt_43	MMM_ME_V_43		Mechanical Measurement & Control By Dr. D.S. Kumar		5|10		
					ME505MMMW09D061020L44	MMM_ME_ppt_44	MMM_ME_V_44				6|10	6|10	
					ME505MMMW09D071020L45	MMM_ME_ppt_45	MMM_ME_V_45				7|10		
					ME505MMMW09D081020L46	MMM_ME_ppt_46	MMM_ME_V_46				8|10		
					ME505MMMW09D091020L47	MMM_ME_ppt_47	MMM_ME_V_47				9|10		
					ME505MMMW09D101020L48	MMM_ME_ppt_48	MMM_ME_V_48				10|10		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
10	12 Oct -17 Oct	6	5	Types of fit, Shaft and Hole basis system, Design of Limit gauge and Process planning sheet (Numerical treatment is expected).	ME505MMMW10D1210 20L49	MMM_ME_ ppt_49	MMM_ME_ V_49		Mechanical Measurement & Control By Dr. D.S. Kumar		12|10		
					ME505MMMW10D1310 20L50	MMM_ME_ ppt_50	MMM_ME_ V_50				13|10		
					ME505MMMW10D1410 20L51	MMM_ME_ ppt_51	MMM_ME_ V_51				14|10		
					ME505MMMW10D1510 20L52	MMM_ME_ ppt_52	MMM_ME_ V_52				15|10		
					ME505MMMW10D1610 20L53	MMM_ME_ ppt_53	MMM_ME_ V_53				16|10		
					ME505MMMW10D1710 20L54	MMM_ME_ ppt_54	MMM_ME_ V_54				17|10		
11	19 Oct -24 Oct	6	6	Comparators: Mechanical, Optical, Electrical, Electronic, Pneumatic. Study and use of Optical profile projectors,	ME505MMMW11D1910 20L55	MMM_ME_ ppt_55	MMM_ME_ V_55		Mechanical Measurement & Control By Dr. D.S. Kumar		19|10		
					ME505MMMW11D2010 20L56	MMM_ME_ ppt_56	MMM_ME_ V_56				20|10		
					ME505MMMW11D2110 20L57	MMM_ME_ ppt_57	MMM_ME_ V_57				21|10		
					ME505MMMW11D2210 20L58	MMM_ME_ ppt_58	MMM_ME_ V_58				22|10	22|10|20	
					ME505MMMW11D2310 20L59	MMM_ME_ ppt_59	MMM_ME_ V_59				23|10		
					ME505MMMW11D2410 20L60	MMM_ME_ ppt_60	MMM_ME_ V_60				24|10		
12	26 Oct - 31 Oct	6	6	Tool maker's microscope and Autocollimator. Measurement of Screw thread and Gear tooth.	ME505MMMW12D2610 20L61	MMM_ME_ ppt_61	MMM_ME_ V_61		Mechanical Measurement & Control By Dr. D.S. Kumar		26|10		
					ME505MMMW12D2710 20L62	MMM_ME_ ppt_62	MMM_ME_ V_62				27|10		
					ME505MMMW12D2810 20L63	MMM_ME_ ppt_63	MMM_ME_ V_63				28|10		
					ME505MMMW12D2910 20L64	MMM_ME_ ppt_64	MMM_ME_ V_64				29|10		
					ME505MMMW12D3010 20L65	MMM_ME_ ppt_65	MMM_ME_ V_65				30|10		
					ME505MMMW12D3110 20L66	MMM_ME_ ppt_66	MMM_ME_ V_66				31|10		
13		Sessional II											

Sub. Teacher

Ac

Faculty in Charge

HOD

Dr. Milind Kharapurkar
Principal
Maharashtra Karmaveer Shikshan Sanstha's
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Hingna, Nagpur-441110.

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Cummins

CCOEW/ME/ 20-21

Date: 5/08/2020

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar

Subject: ~~Heat Transfer~~ Energy Conversion II

SEM: VII (2020-21)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10 - 14 Aug 20	5	III	Internal Combustion Engines: Introduction, classification, components of I.C.Engines, working of four stroke S.I.	ME7ECII7W1D100820L01	EC2_ICE_1	EC2_ICE_V1		IC Engine by V. Ganesan, Ch. 1, Pages 1-42, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	10/8/20		
				working of two stroke and four stroke C.I. Engines,	ME7ECII7W1D110820L02	EC2_ICE_1	EC2_4Stan2S_V2				11/8/20		
				valve and port timing diagram. Advantages and disadvantages, applications.	ME7ECII7W1D120820L03	EC2_ICE_1	EC2_VT_V3				12/8/20		
				Combustion in S. I. Engine, stages of combustion, ignition lag, detonation.	ME7ECII7W1D130820L04	EC2_ICE_1	EC2__Comb_V4	https://vcal-iitk.vlabs.ac.in/list.html			13/8/20		
				Combustion in C. I. Engine, stages of combustion, delay period, diesel knock, abnormal combustion in S.I. and C.I. engines, detonation and knocking	ME7ECII7W1D140820L05	EC2_ICE_1	EC2__COMB_V5				14/8/20		
2	17- 21 Aug 20	5	III & IV	Fuel supply to S. I. Engine, carburetion, simple carburetor, components, operation	ME7ECII7W2D170820L06	EC2_ICE_1	EC2_Fuei_V6		IC Engine by V. Ganesan, Ch. 7 and 11, Pages 189-238, 323-355, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	17/8/20		
				MPFI, Fuel supply to C. I. Engine,	ME7ECII7W2D180820L07	EC2_ICE_1	EC2_MPFI_V7				18/8/20		
				air injection system, solid injection, fuel pump & fuel injector.	ME7ECII7W2D190820L08	EC2_ICE_1	EC2_Inject_V8				19/8/20		
				Unit 4 Testing of I. C. Engines:- Performance parameters, measurement of indicated, friction & brake power, measurement of speed, fuel & air consumption,	ME7ECII7W2D200820L09	EC2_ICE_2					20/8/20		
				calculation of indicated & brake thermal efficiency, volumetric efficiency, relative efficiency and mechanical efficiency, percentage of excess air.	ME7ECII7W2D210820L10	EC2_ICE_2					21/8/20		
				Numerical	ME7ECII7W3D240820L11	EC2_ICE_2					24/8/20		
				Heat balance sheet, exhaust gas calorimeter, exhaust analysis.	ME7ECII7W3D250820L12	EC2_ICE_2					25/8/20		

Faculty in Charge

HOD

Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharashtra Karnataka Shikshan Sanstha's Cummins College of Engineering for Women Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
3	24 - 29 Aug 20	5	I & II	Numerical	ME7ECII7W3D260820L13	EC2_ICE_2			IC Engine by V. Ganesan, Ch. 8 & 9, Pages 241-287. Ch. 15, Pages 457-571, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	25/8/20		
				Numerical	ME7ECII7W3D270820L14	EC2_ICE_2					26/8/20		
				performance characteristics, factors influencing the performance of I.C. engines, performance analysis of single and multi cylinder I. C. engines	ME7ECII7W3D280820L15	EC2_ICE_2					27/8/20		
4	31 Aug - 5 Sept. 20	5	I	performance analysis of single and multi cylinder I. C. engines	ME7ECII7W4D310820L16	EC2_ICE_2			Thermal Engineering, R. K. Rajput Pages 676-717, 9th Edition	https://forms.gle/hPhugk11XaoLUJXm6	28/8/20		
				Numerical	ME7ECII7W4D020920L17	EC2_ICE_2					29/8/20		
				Numerical	ME7ECII7W4D030920L18	EC2_ICE_2					31/8/20		
				Air Compressors:- Introduction, classification, applications. Positive displacement Compressors:- Reciprocating compressors: - Construction and working, isothermal, polytropic & adiabatic compression process,	ME7ECII7W4D040920L19	EC2_Compressor_1	EC2_Compressor_V9				1/9/20		
				Reciprocating Air Compessor : Work done with and without clearance, P-V diagram, volumetric efficiency,	ME7ECII7W4D050920L20	EC2_Compressor_1	EC2_Compressor_V10				2/9/20		
5	7 -12 Sept. 20	6	II	effect of clearance, isothermal efficiency,	ME7ECII7W5D070920L21	EC2_Compressor_1			Thermal Engineering, R. K. Rajput Pages 676-717,9th Edition	https://forms.gle/hPhugk11XaoLUJXm6	3/9/20		
				Numerical	ME7ECII7W5D080920L22	EC2_Compressor_1					4/9/20		
				methods for improving isothermal efficiency, volumetric efficiency, mechanical efficiency,	ME7ECII7W5D090920L23	EC2_Compressor_1					5/9/20		
				Numerical	ME7ECII7W5D100920L24	EC2_Compressor_1					7/9/20		
				Multistage compression, intercooling, condition for minimum work input	ME7ECII7W5D110920L25	EC2_Compressor_1	EC2_Compressor_V10				8/9/20		
				Numerical	ME7ECII7W5D120920L26	EC2_Compressor_1					9/9/20		
				Numerical	ME7ECII7W6D140920L27	EC2_Compressor_1							

Faculty in Charge

HOD

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Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
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CCOEW/Mech/ 20-21

Date: 8 / 8 / 2020

LESSON & TEACHING PLAN for MHS

Department of Mechanical Engg.

Faculty Name: Prof. Vikram Dandekar | Sub: MHS | Year : 2020-21 | Sem:- 7

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8 Aug - 14 Aug	6	1	Elements of Material Handling System:- Importance, terminology, objectives and benefits of better Material Handling; Principles and features of Material Handling System;	ME702MHSW01D080820L01	MHS_ME_ppt_01	MHS_ME_V_01	materiaal handling videos and PPT presentation	Material Handling Equipments, N. RudenkoPage no 1- 30		8/8		
					ME702MHSW01D100820L02	MHS_ME_ppt_02	MHS_ME_V_02				9/8		
					ME702MHSW01D118200L03	MHS_ME_ppt_03	MHS_ME_V_03				10/8		
					ME702MHSW01D120820L04	MHS_ME_ppt_04	MHS_ME_V_04				11/8		
					ME702MHSW01D130820L05	MHS_ME_ppt_05	MHS_ME_V_05				12/8		
					ME702MHSW01D140820L06	MHS_ME_ppt_06	MHS_ME_V_06				13/8	13/8	
2	17 Aug-22Aug	6	1	Interrelationships between material handling and Plant layout, physical facilities and other organizational functions; Classification of Material Handling equipments	ME702MHSW02D170820L07	MHS_ME_ppt_07	MHS_ME_V_07		Material Handling Equipments, N. RudenkoPage no 33-149		17/8		
					ME702MHSW02D180820L08	MHS_ME_ppt_08	MHS_ME_V_08	Plant layout system video			18/8		
					ME702MHSW02D190820L09	MHS_ME_ppt_09	MHS_ME_V_09				19/8		
					ME702MHSW02D200820L10	MHS_ME_ppt_10	MHS_ME_V_10				20/8		
					ME702MHSW02D210820L11	MHS_ME_ppt_11	MHS_ME_V_11				21/8		
					ME702MHSW02D220820L12	MHS_ME_ppt_12	MHS_ME_V_12				22/8		

Faculty in Charge

HOD

Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	24 Aug-29 Aug	6	2	Selection of Material Handling Equipments:- Factors affecting for selection; Material Handling equation; choices of Material Handling equipment; general analysis procedures, basic analytical techniques;	ME702MHSW03D240820L13	MHS_ME_ppt_13	MHS_ME_V_13	Showing available Pressure Measuring instruments	Material Handling Equipments, N. Rudenko		24|8		
					ME702MHSW03D250820L14	MHS_ME_ppt_14	MHS_ME_V_14				25|8		
					ME702MHSW03D260820L15	MHS_ME_ppt_15	MHS_ME_V_15				26|8		
					ME702MHSW03D270820L16	MHS_ME_ppt_16	MHS_ME_V_16				27|8		
					ME702MHSW03D280820L17	MHS_ME_ppt_17	MHS_ME_V_17				28|8		
					ME702MHSW03D290820L18	MHS_ME_ppt_18	MHS_ME_V_18				29|8		
4	1 Sept-7 Spt	**Sessional I**											
5	7 Sept-12 Spt	6	2	the unit load concept; selection of suitable types of systems for applications; activity cost data and economic analysis for design of components of Material Handling Systems; functions and parameters affecting service; packing and storage of materials.	ME702MHSW05D070920L19	MHS_ME_ppt_19	MHS_ME_V_19		Material Handling Equipments, N. Rudenko		7|9		
					ME702MHSW05D080920L20	MHS_ME_ppt_20	MHS_ME_V_20				8|9		
					ME702MHSW05D090920L21	MHS_ME_ppt_21	MHS_ME_V_21				9|9		
					ME702MHSW05D100920L22	MHS_ME_ppt_22	MHS_ME_V_22				10|9		
					ME702MHSW05D110920L23	MHS_ME_ppt_23	MHS_ME_V_23				11|9		
					ME702MHSW05D120920L24	MHS_ME_ppt_24	MHS_ME_V_24				12|9		
6	14 Sept-19 Spt	6	3	Design of Mechanical Handling Equipments:- [A] Design of Hoists:- Drives for hoisting, components, and hoisting mechanisms; rail traveling components and mechanisms; hoisting gear operation during transient motion; selecting the motor rating and determining breaking torque for hoisting mechanisms.	ME702MHSW06D140920L25	MHS_ME_ppt_25	MHS_ME_V_25		Material Handling Equipments, N. Rudenko		14|9	14|9	
					ME702MHSW06D150920L26	MHS_ME_ppt_26	MHS_ME_V_26				15|9		
					ME702MHSW06D160920L27	MHS_ME_ppt_27	MHS_ME_V_27				16|9		
					ME702MHSW06D170920L28	MHS_ME_ppt_28	MHS_ME_V_28				17|9		
					ME702MHSW06D180920L29	MHS_ME_ppt_29	MHS_ME_V_29				18|9		
					ME702MHSW06D190920L30	MHS_ME_ppt_30	MHS_ME_V_30				19|9		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	21 Sept-26 Spt	6	3	[B] Design of Cranes:- Hand-propelled and electrically driven EOT overhead traveling cranes; Traveling mechanisms of cantilever and monorail cranes; design considerations for structures of rotary Cranes with fixed radius; fixed post and overhead traveling cranes; Stability of stationary Rotary and traveling rotary cranes.	ME702MHSW07D210920L31	MHS_ME_ppt_31	MHS_ME_V_31		Material Handling Equipments, N. Rudenko		21|9		
					ME702MHSW07D220920L32	MHS_ME_ppt_32	MHS_ME_V_32				22|9		
					ME702MHSW07D230920L33	MHS_ME_ppt_33	MHS_ME_V_33				23|9		
					ME702MHSW07D240920L34	MHS_ME_ppt_34	MHS_ME_V_34				24|9		
					ME702MHSW07D250920L35	MHS_ME_ppt_35	MHS_ME_V_35				25|9		
					ME702MHSW07D260920L36	MHS_ME_ppt_36	MHS_ME_V_36				26|9		
8	28 Sep - 3 Oct	6	4	Design of load lifting attachments:- Load chains and types of ropes used in Material Handling System; Forged, Standard and Ramshorn Hooks; Crane Grabs and Clamps; Grab Buckets; Electromagnet; Design consideration for conveyor belts; Application of attachments.	ME702MHSW08D280920L37	MHS_ME_ppt_37	MHS_ME_V_37		Material Handling Equipments, N. Rudenko		28|9		
					ME702MHSW08D290920L38	MHS_ME_ppt_38	MHS_ME_V_38				29|9		
					ME702MHSW08D300920L39	MHS_ME_ppt_39	MHS_ME_V_39				30|9		
					ME702MHSW08D011020L40	MHS_ME_ppt_40	MHS_ME_V_40				1|10		
					ME702MHSW08D021090L41	MHS_ME_ppt_41	MHS_ME_V_41				2|10		
					ME702MHSW08D031020L42	MHS_ME_ppt_42	MHS_ME_V_42				3|10		
9	5 Oct - 10 Oct	6	5	Study of systems and Equipments used for Material Storage:- Objectives of storage; Bulk material handling; Gravity flow of solids through slides and chutes; Storage in bins and hoppers;	ME702MHSW09D051020L43	MHS_ME_ppt_43	MHS_ME_V_43		Material Handling Equipments, N. Rudenko		5|10		
					ME702MHSW09D061020L44	MHS_ME_ppt_44	MHS_ME_V_44				6|10		
					ME702MHSW09D071020L45	MHS_ME_ppt_45	MHS_ME_V_45				7|10		
					ME702MHSW09D081020L46	MHS_ME_ppt_46	MHS_ME_V_46				8|10		
					ME702MHSW09D091020L47	MHS_ME_ppt_47	MHS_ME_V_47				9|10		
					ME702MHSW09D101020L48	MHS_ME_ppt_48	MHS_ME_V_48				10|10		

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10	12 Oct -17 Oct	6	5	Belt conveyors; Bucket-elevators; Screw conveyors;Vibratory Conveyors; Cabin conveyors; Mobile racks etc.	ME702MHSW10D121020L49	MHS_ME_ppt_49	MHS_ME_V_49		Material Handling Equipments, N. Rudenko		12/10		
					ME702MHSW10D131020L50	MHS_ME_ppt_50	MHS_ME_V_50				13/10		
					ME702MHSW10D141020L51	MHS_ME_ppt_51	MHS_ME_V_51				14/10		
					ME702MHSW10D151020L52	MHS_ME_ppt_52	MHS_ME_V_52				15/10		
					ME702MHSW10D161020L53	MHS_ME_ppt_53	MHS_ME_V_53				16/10		
					ME702MHSW10D171020L54	MHS_ME_ppt_54	MHS_ME_V_54						
11	19 Oct -24 Oct	6	6	Material Handling / Warehouse Automation and Safety considerations:-[A] Storage and warehouse planning and design; computerized warehouse planning; Need, Factors and Indicators for consideration in warehouse automation; Levels and Means of Mechanizations.	ME702MHSW11D191020L55	MHS_ME_ppt_55	MHS_ME_V_55		Material Handling Equipments, N. Rudenko		19/10		
					ME702MHSW11D201020L56	MHS_ME_ppt_56	MHS_ME_V_56				20/10		
					ME702MHSW11D211020L57	MHS_ME_ppt_57	MHS_ME_V_57				21/10		
					ME702MHSW11D221020L58	MHS_ME_ppt_58	MHS_ME_V_58				22/10	22/10	
					ME702MHSW11D231020L59	MHS_ME_ppt_59	MHS_ME_V_59				23/10		
					ME702MHSW11D241020L60	MHS_ME_ppt_60	MHS_ME_V_60				24/10		
12	26 Oct - 31 Oct	6	6	B] Safety and design; Safety regulations and discipline.	ME702MHSW12D261020L61	MHS_ME_ppt_61	MHS_ME_V_61		Material Handling Equipments, N. Rudenko		26/10		
					ME702MHSW12D271020L62	MHS_ME_ppt_62	MHS_ME_V_62				27/10		
					ME702MHSW12D281020L63	MHS_ME_ppt_63	MHS_ME_V_63				28/10		
					ME702MHSW12D291020L64	MHS_ME_ppt_64	MHS_ME_V_64				29/10		
					ME702MHSW12D301020L65	MHS_ME_ppt_65	MHS_ME_V_65				30/10		
					ME702MHSW12D311020L66	MHS_ME_ppt_66	MHS_ME_V_66				31/10		
13		Sessional II											

Sub. Teacher

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/ME/ 20-21

Date 01/08/2021

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Sushil Lanjewar								Sub: Computer Aided Design (CAD)		Sec:	Year : 2021-22		Sem:- VII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no, Page no,edition, No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	16Aug - 21Aug			ONLINE SKILL DEVELOPMENT TRAINING							21/08		
2	23 - 27 Aug 21	5	1	Introduction of CAD, Difference between Conventional & CAD design,	ME7CAD7W02D230821L01	CAD_CH1_ppt01		3-4 Groups of students given different parts and create	CAD/CAM by Ibrahim Zeid ch 1,pg 14,17 ch 2, pg 27-38 pg 533-537				
				Rasterisation techniques frame buffer, N-bit plane buffers, Simple color frame buffer,	ME7CAD7W02D240821L02	CAD_CH1_ppt02		http://vlabs.iitb.ac.in/vlabs-dev/labs/cglab/experimentlist.html					
				Algorithm for the generation of basic geometric entities like line (DDA Algorithm) with Numerical	ME7CAD7W02D250821L03	CAD_CH1_ppt03					27/08		
				Numerical on DDA Algorithm	ME7CAD7W02D260821L04	CAD_CH1_ppt04		use of strings, use of CRT or LCD takean					
				Numerical on DDA Algorithm	ME7CAD7W02D270821L05	CAD_CH1_ppt05		http //vlabs iitb ac in/vlabs-dev/labs/cglab/					
3	30 Aug - 4 Sep	5	1	Bresenham's line generation Method with Numerical	ME7CAD7W03D300821L06	CAD_CH1_ppt06			CAD/CAM by Ibrahim Zeid ch 9 pg 533-537				
				Numerical on Bresenham's Method	ME7CAD7W03D310821L07	CAD_CH1_ppt07							
				Numerical on Bresenham's Method	ME7CAD7W03D010921L08	CAD_CH1_ppt08		use of strings, use of CRT or LCD takean					
				Algorithm for the generation of basic geometric entities like circle & ellipse by using parametric & non-parametric equations	ME7CAD7W03D020921L09	CAD_CH1_ppt09		http //vlabs iitb ac in/vlabs-dev/labs/cglab/			04/09		
				Numericals on Circle generation	ME7CAD7W03D030921L10	CAD_CH1_ppt10							
4	6-10 Sep	5	2	Introduction to windowing & clipping (excluding algorithm), Window and Viewport, line clipping &	ME7CAD7W04D060921L10	CAD_CH2_ppt01			CAD/CAM by Ibrahim Zeid Ch 8 pg 465-511				
				Introduction to 2D transformation Translation, Scaling, Rotation, Numericals on Translation	ME7CAD7W04D070921L11	CAD_CH2_ppt02							
				Numericals on Scaling	ME7CAD7W04D080921L12	CAD_CH2_ppt03		http //vlabs iitb			10/09		
				Numericals on Rotation	ME7CAD7W04D090921L13	CAD_CH2_ppt04							
				Numericls on Combination of Translation, Scaling, Rotation,	ME7CAD7W04D100921L14	CAD_CH2_ppt05							
				Numericls on Combination of Translation, Scaling, Rotation,	ME7CAD7W04D130921L15	CAD_CH2_ppt06							
5	13-18 Sept	5	2	Introduction to 2D transformation Reflection & Shear,	ME7CAD7W05D140921L16	CAD_CH2_ppt07		taking different	CAD/CAM by Ibrahim Zeid Ch 8 pg 465-511				
				Numericals on Reflection & Shear,	ME7CAD7W05D150921L17	CAD_CH2_ppt08		http //vlabs iitb					
				Numericals on Reflection & Shear,	ME7CAD7W05D160921L18	CAD_CH2_ppt09					18/09		
				3D Transformation , Translation, Scaling, Rotation, Reflection etc	ME7CAD7W05D170921L19	CAD_CH2_ppt10							
				3D Transformation , Translation, Scaling, Rotation, Reflection etc	ME7CAD7W05D200921L20	CAD_CH2_ppt11							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Numericla on 3D Transformation	ME7CAD7W05D210921L21	CAD_CH2_ppt12							
6	20-24 Sept. 21	5	2 & 3	Numericla on 3D Transformation	ME7CAD7W06D220921L22	CAD_CH2_ppt13			CAD/CAM by Ibrahim Zeid Ch.4 pg 135-239				
				Numericla on 3D Transformation	ME7CAD7W06D230921L23	CAD_CH2_ppt14							
				Techniques for Geometric Modeling Graphic standards, parametric representation of geometry,	ME7CAD7W06D240921L24	CAD_CH3_ppt01		http://vlabs.iitb.			24/09		
				Bezier curves,	ME7CAD7W06D290921L25	CAD_CH3_ppt02							
				Numericla on Bazier curves	ME7CAD7W06D300921L26	CAD_CH3_ppt03							
				Cubic spline curves, Cubic spline curves, Bspline curves,	ME7CAD7W06D011021L27	CAD_CH3_ppt04							
				constructive solid geometry,	ME7CAD7W07D021021L28	CAD_CH3_ppt05							
				Problems on constructive solid geometry,	ME7CAD7W07D031021L29	CAD_CH3_ppt06							
7	27 Sept.- 1 Oct. 2021	5	3	Feature Based modeling, Feature recognition, Design by feature	ME7CAD7W07D061021L30	CAD_CH3_ppt07			CAD/CAM by Ibrahim Zeid Ch.4 pg 135-239				
				Wire frame modeling, solid modeling of basic entities like box, cone, cylinder	ME7CAD7W07D071021L31	CAD_CH3_ppt08					01/10		
				CSG & B- representation technique using set theory	ME7CAD7W07D081021L32	CAD_CH3_ppt09							
				Assembly modeling Representation, mating conditions, representation schemes, generation of assembly	ME7CAD7W07D091021L33	CAD_CH3_ppt10							
8	4-9 Oct.			Sessional Exam 1									
				Assembly modeling Representation, mating conditions, representation schemes, generation of assembly sequences and importance of precedence diagram	ME7CAD7W09D280921L34	CAD_CH3_ppt10							
9	11-16 Oct. 2021	5	4	Introduction to Finite Element Analysis Basic concept	ME7CAD7W09D290921L35	CAD_CH4_ppt01			Introduction to Finite Elements in Engineering By A.D Belegundu and T R Chandrupatla Pg No 1-43				
				One Dimensional Problem Fundamental concept of finite element method, Plain stress and strain	ME7CAD7W09D300921L36	CAD_CH4_ppt02					11/10		
				Numericls on 1D Element Plain stress and strain	ME7CAD7W09D011020L37	CAD_CH4_ppt02							
				Numericls on 1D Element Plain stress and strain	ME7CAD7W09D031020L38	CAD_CH4_ppt02							
				Finite Element Modeling Potential Energy Approach,	ME7CAD7W10D051020L39	CAD_CH4_ppt02							
				Finite Element Modeling Potential Energy Approach,	ME7CAD7W10D061020L40	CAD_CH4_ppt02							
10	18 - 22 Oct. 21	5	4	Numericls on 1D Element PEA	ME7CAD7W10D071020L41	CAD_CH4_ppt02			Introduction to Finite Elements in Engineering By A.D Belegundu and T R Chandrupatla Pg No 45-98				
				Numericls on 1D Element PEA	ME7CAD7W10D081020L42	CAD_CH4_ppt02					22/10		
				Finite Element Modeling Galerkin Approach,	ME7CAD7W10D091020L43	CAD_CH4_ppt02							
				Finite Element Modeling Galerkin Approach,	ME7CAD7W10D101020L44	CAD_CH4_ppt02							
				Numericls on 1D Element GA	ME7CAD7W11D121020L45	CAD_CH4_ppt02							
				Coordinate and Shape function	ME7CAD7W11D131020L46	CAD_CH4_ppt03							
				Finite Element Equations, Quadratic Shape Function, Temperature Effects,Torsion of a circular shaft	ME7CAD7W11D141020L47	CAD_CH4_ppt02			Introduction to Finite Elements in Engineering By A.D Belegundu and T R Chandrupatla Pg No 45-98, pg no103-174				
11	25 - 30 Oct. 21	5	4 & 5	Finite Element Equations, Quadratic Shape Function, Temperature Effects,Torsion of a circular shaft	ME7CAD7W11D151020L48	CAD_CH4_ppt03					30/10		
				Truss & Two Dimensional FEM	ME7CAD7W11D161020L49	CAD_CH5_ppt01							
				Plane truss problems,	ME7CAD7W11D171020L50	CAD_CH5_ppt01							
				Plane truss problems,	ME7CAD7W12D191020L51	CAD_CH5_ppt01							
				Plane truss problems,	ME7CAD7W12D201020L52	CAD_CH5_ppt01			Introduction to Finite Elements in Engineering By A.D Belegundu and T R Chandrupatla Pg No 45-98, pg no103-174				
12	8 - 12 Nov. 21	5	5	two dimensional problems using Constant strain triangle	ME7CAD7W12D211020L53	CAD_CH5_ppt02					12/11		
				Numericals	ME7CAD7W12D221020L54	CAD_CH5_ppt02							
				Numericals	ME7CAD7W12D231020L55	CAD_CH5_ppt02							
				two dimensional problems using Constant strain triangle	ME7CAD7W12D241020L56	CAD_CH5_ppt03							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
13	15 - 20 Nov. 21	5	6	Numericals	ME7CAD7W13D261020L57	CAD_CH5_ppt04			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg No 45-98, pg no103-174		20/11		
				Derivation of shape functions for CST element	ME7CAD7W13D271020L58	CAD_CH5_ppt05							
				Optimization in Design. Objectives of optimum design,	ME7CAD7W13D281020L59	CAD_CH5_ppt06							
				adequate and optimum design,	ME7CAD7W13D291020L60	CAD_CH6_ppt01							
				Johnson's Method of optimum design,	ME7CAD7W13D301020L61	CAD_CH6_ppt01							
				primary design equation,	ME7CAD7W13D311020L62	CAD_CH6_ppt01							
14	22 - 26 Nov. 21	5	6	subsidiary design equations and limit equations,	ME7CAD7W13D311020L63	CAD_CH6_ppt02			Introduction to Finite Elements in Engineering By A D Belegundu and T R Chandrupatla Pg No 45-98, pg no103-175		26/11		
				optimum design with normal and redundant specifications of simple machine elements of tension bar,	ME7CAD7W13D311020L64	CAD_CH6_ppt03							
				Numericals	ME7CAD7W13D311020L65	CAD_CH6_ppt04							
				optimum design with normal and redundant specifications of simple machine elements of transmission shaft	ME7CAD7W13D311020L66	CAD_CH6_ppt05							
				Numericals	ME7CAD7W13D311020L67	CAD_CH6_ppt06							
				optimum design with normal and redundant specifications of simple machine elements of helical spring	ME7CAD7W13D311020L68	CAD_CH6_ppt07							
15				Sessional Exam II									

60

Sub. Teacher S.R. Lanjewar

Ac P. Mahankar

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Academic year

2019-20

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LESSON & TEACHING PLAN FOR ENERGY CONVERSION-I
DEPARTMENT OF MECHANICAL ENGINEERING

Date: 02 /12 / 2019

Faculty Name:Dr. Shailesh N. Khekale					Subject: Energy Conversion - I			Year (2019-20)		Sem:- VI
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16 - 21 Dec.	5	1	Introduction to layout of thermal power plant, principle of steam generation. Fuel for steam generators, necessity of water treatment, classification of steam generators, fire tube and water tube boilers, high pressure boilers	Alloting the elements of thermal power plant to the students and corelate their sequence of functions. Elaborating example of pressure cooker and difference with boiler	THERMAL ENGG. BY R.K. RAJPUT ch.no.11, pg.297-299		17/12/19 18/12/19 31/12/19	20/12/19 27/12/19	
2	23 - 27 Dec	3	1	Boiler mountings and accessories. Draught and its classification, calculations for chimney height, chimney diameter & efficiency. Condition for maximum discharge.	Demonstration of Lancashire Boiler with model	THERMAL ENGG. BY R.K. RAJPUT ch.no.11, pg.299-315, ch.no.12, pg.317-329	ANUNIVERSE%2022%20-%20CORNISH%20BOILER%20WORKING.mp4	3/1/20	3/1/20	
3	30 Dec - 4Jan	5	2	Draught and its classification, calculations for chimney height, chimney diameter & efficiency. Condition for maximum discharge.	Elaborating types of draught	THERMAL ENGG. BY R.K. RAJPUT ch.no.13, pg.330-340	WORKING%20OF%20BOILER.mp4	16/1/20		
4	06 Jan-- 10 Jan	4	2	Performance of steam generators: Evaporation capacity,equivalent evaporation..Boiler efficiency		THERMAL ENGG. BY R.K. RAJPUT ch.no.14, pg.341-351		29/1/20		

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LESSON & TEACHING PLAN FOR ENERGY CONVERSION-I
DEPARTMENT OF MECHANICAL ENGINEERING

Date: 02 /12 / 2019

Faculty Name:Dr. Shailesh N. Khekale					Subject: Energy Conversion - I			Year (2019-20)		Sem:- VI
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	13 - 18 Jan	5	3	. Fluidized bed boiler: Bubbling fluidized bed boilers, circulating fluidized bed boilers (Elementary treatment expected), coal handling, ash handling.		THERMAL ENGG. BY R.K. RAJPUT ch.no.11, pg.299-315		23/1/20		
6	20 - 24 Jan		Anannya							
7	27 Jan - 1 Feb	5	3	Cogeneration: Introduction to cogeneration, need, working principle and applications.		THERMAL ENGG. BY R.K. RAJPUT ch.no.14, pg.341-351				
8	3 -7 Feb	4	3 & 4	Topping cycle and bottoming cycle. Steam nozzles: Adiabatic expansion in nozzles, maximum discharge, critical pressure ratio and effects of friction,		THERMAL ENGG. BY R.K. RAJPUT ch.no.18, pg.440-464		6/2/20		
9	10 - 15 Feb		Sessional - I							
10	17 - 20 Feb	3	4	Calculation of throat and exit areas, supersaturated flow, Wilson Line.		THERMAL ENGG. BY R.K. RAJPUT ch.no.19		17/2/20		
11	24 -28 Feb		Retest							
12	29Feb - 7 March	3	4	Problem on Steam nozzle and Turbine. Energy losses in steam turbines, flow of steam through turbine blades, reheat factors, Velocity diagrams, graphical and analytical methods.		THERMAL ENGG. BY R.K. RAJPUT ch.no.19, pg.465-513	Mr.Abhijit Pundlik, Engineer,Boiler operation, Koradi TPS	26/2/20		

Faculty Incharge

H.O.D.

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LESSON & TEACHING PLAN FOR ENERGY CONVERSION-I
DEPARTMENT OF MECHANICAL ENGINEERING

Date: 02 /12/ 2019

Faculty Name:Dr. Shailesh N. Khekale					Subject: Energy Conversion - I			Year (2019-20)		Sem:- VI
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	9 - 13March.	6	5	Problem on Steam nozzle and Turbine,Energy losses in steam turbines, flow of steam through turbine blades, reheat factors, velocity diagrams, graphical and analytical methods, work done.		THERMAL ENGG. BY R.K. RAJPUT ch.no.19, pg.465-513		14/3/20		
14	16 -21 Mar	4	5	Thrust and power, dimensions and proportioning of the blades, steam turbine efficiencies, condition for maximum efficiencies, reheat and regenerative cycles.		THERMAL ENGG. BY R.K. RAJPUT ch.no.19, pg.465-513		19/3/20		
15	23 - 27 Mar	5	6	Steam condensers: Types of condensers, classification of condensers, quality and quantity of cooling water required.Calculations for surface condenser,		THERMAL ENGG. BY R.K. RAJPUT ch.no.18,19,. pg.440-513	Mr.Ashish Ikhankar,Dpt. Exhicutive, Training Dpt,Koradi,TPS			
16	30 - 31 Mar	3	6	Dalton's law of partial pressure, sources of air leakages and air removal, air ejectors Cooling towers: wet cooling towers, dry cooling towers, cooling ponds.		THERMAL ENGG. BY R.K. RAJPUT ch.no.18,19,. pg.440-513	Mr.Lalit Rode,Engineer,Boiler operation, Koradi, TPS			
17	01 - 08 Apr		Sessional - II							

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Date: 02 /12 / 2019

LESSON & TEACHING PLAN FOR MACHINING PROCESSES
DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Name:Dr. Shailesh N. Khekale					Subject: Machining Processes			Year (2019-20)		Sem:- IV
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16 - 21 Dec.	5	1	Introduction to Machining Parameters: Introduction to machining, Tool materials, Nomenclature and tool geometry of single point cutting tool, tool materials properties, classification, HSS, carbide tool, coated tools, diamond coated tool.Theory of Metal Cutting: Introduction. Orthogonal and Oblique cutting. Mechanics of Metal Cutting.	Sharpening of pencils by sharpener	P N Rao Ch.4, p. 116-146+B19		18/12/19 26/12/19 31/12/19	31/12/19	28/12/20
2	23 - 27 Dec	3	1	Shear plane, Stress, Strain and cutting forces. Merchant's circle, Chip formation, cutting force calculations, Determination of Torque and power required for turning Drilling and Milling. Influence of tool angle, cutting fluids, cutting speed, feed and depth of cut on power requirement,Estimation of tool life.	Cuttting of potato, cucumber to understand the concept of chip formation	Garg p.464-479, R. K. Jain p. 441-464		3/1/20 14/1/20		
3	30 Dec - 4Jan	5	2	Lathe: Introduction. type, Construction of simple lathe mechanism and attachments for various operations, Machine specifications basis for selection of cutting speed	Lecture at nearby lathe machine in workshop and Students explained the parts of lathe machine.	Hazra p.53-55, Hajra P 86 to 98 and 107 to 110 and R K Jain p. 441-464		29/1/20		
5	06 Jan--10 Jan	4	2	Machine specifications basis on feed and depth of cut, time estimation for turning operations such as facing, step turning, taper turning, threading, knurling. Introduction to Capstan & Turret Lathe.	Students explained the different mechanism of lathe machine.	Garg p.464-479, R K Jain p. 441-464		3/2/20		
6	13 - 18 Jan	5	3	Shaper: Introduction, type, specification, description of machines, hydraulic drives in shapers, cutting parameters. Mechanism of shaper: Quick return mechanism. Crank & slotted link mechanism.	Students explained the parts and different mechanism of shaper machine.	Hazra p. 56-79 RKJain, ch. 23, p 719-725		6/2/20		
	20 - 24 Jan									

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Faculty Name:Dr. Shailesh N. Khekale				Subject: Machining Processes			Year (2019-20)		Sem:- IV
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	27 Jan -1 Feb	5	3	Table feed mechanism, attachments for shaper, work holding devices, shaper operations, time estimation for shaping operations. Slotter : Introduction, specifications, description, type of drives for slotter. Types of slotting machines -production slotter, puncher slotter, tool room slotter, slotter tools. Planer: Introduction, specifications, description.	Students elaborated Quick return mechanism, Crank & slotted link mechanism and parts of shaper	Hazra p. 56-79 RKJain, ch. 23, p 719-725		7/2/20		
8	3 -7 Feb	4	4	Specification, types, column & knee type milling machine, fixed bed type milling machines, production milling machines. Special purpose milling machines such as thread milling Machines, profile milling machine, Gear Milling/Hobbing machines	Students explained the parts and different mechanism of planer machine in workshop	Hazra ch. 7, p.297-324, RKJain, ch. 23, p 719-725	https://www.youtube.com/watch?v=SYzYlVc1MpU	17/2/20		
	10 - 15 Feb									
9	17 - 20 Feb	3	4	Mechanisms & Attachments for Milling. Cutting, parameters, Types of milling operations, Types of milling cutters, Tool geometry & their specifications. Indexing- simple, compound and differential.	Lecture at nearbyMilling machine in workshop	HHazra ch. 9, p. 347-356,				
10	24 -28 Feb	Retest								
11	29Feb - 7 March	6	5	Grinding operations, grinding wheel, specifications & selection, cylindrical & centreless grinding operation, surface grinding, tool & cutter grinding, time estimation for grinding operations.	Students elaboratde parts of milling machine with their functions.	Hazra ch. 9, p. 347-356,				
12	9 - 13March.	4	5	Super finishing process: Honing, Lapping, polishing, buffing, 'metal spraying, galvanizing and electroplating. Process parameters and attainable grades of surface finish, surface measurement.	Lecture at nearby grinding machine in workshop	Hazra ch. 11, p. 397-406,	https://www.youtube.com/watch?v=FfjA5ZEUhi0			
13	16 -21 Mar	5	5	Drilling: introduction, tools for drilling, classification of drills, twist drills, drill size and specifications, tipped drills, Type of drilling machines-portable drilling machine. bench drilling machine, Right drilling machine, radial drilling machine, universal drilling machine, multisided drilling machine.	Lecture at nearby drilling machine in workshop	Hazra ch. 11, p. 397-406,	https://www.youtube.com/watch?v=X0-_OwjQBgI	29/2/20		
14	23 - 27 Mar	3	6	Drilling machines operations, time estimation for drilling. Reaming: Introduction, description of reamer, type of reaming operations. Boring: Introduction, types of boring machine, horizontal boring machine, vertical boring machine, jig machine, micro boring, boring operations.	Students elaborate parts of drilling machine with their functions.	Hazra ch. 11, p. 397-406,		13/3/20		
15	30 - 31 Mar	2	6	Broaching: Introduction, type of broaches, nomenclature of broaches. types of broaching machines		Hazra ch. 11, p. 406-429, 454-464.		17/3/20		
18	01 - 08 Apr									

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CCOEW/ME/ 19-20

Date: 16/12/2020

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar						Subject: Engg. Thermodynamics		SEM: IV (2019-20)		
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16-21 Dec	6	I	concepts of Thermodynamics, Systems and its forms, Property, State, Process, Cycles, Thermodynamics equilibrium, temperature, Zeroth law of thermodynamics, Introduction to First law of thermodynamics	Activity 1.1, 1.2,1.3,1.4	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 1 & 2, Page 1-41	PPT	16|12|19 17|12|19 18|12|19 19|12|19 20|12|19 21|12|19		
2	23-27 Dec	4	I	Energy transfer, Heat and Work, Mechanical form of work, Non-mechanical form of work.	Activity 1.5,1.6,1.7,1.8	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 2&3, Page 26 - 69	PPT	23|12|19 24|12|19 26|12|19 27|12|19		
3	30 Dec - 4 Jan	6	I	Ideal Gas: Gas laws-Boyle's law, Charle's law, Avagadro's law, Equation of state, Specific Heat, Universal gas constant, Constant pressure, Constant volume, Isothermal, Isentropic and Polytropic process on P-V Diagram. Calculation of Heat transfer, Work done, Change in Internal Energy and Enthalpy	Activity 1.9 to 1.13	CP Arora, Thermodynamics, Chap. 1 & 2, page 1-51, Engineering Thermodynamics, P. K. Nag, Chap. 3 & 4, Page 41-86	PPT	30|12|19 30|12|19 1|1|2020 3|1|2020 3|1|2020 4|1|20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter No. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	6 - 10 Jan	5 (2)	II	Unit II: First law of Thermodynamics for Closed System undergoing a process and cycle (Control Mass System) First Law to Open System (Control Volume System),	Activity 1.14 to 1.17	CP Arora, Thermodynamics, Chap. 4 & 5, page 105-221, Engineering Thermodynamics, P. K. Nag, Chap. 5, Page 87 -112	NPTEL	9/1/20 10/1/20 10/1/20 13/1/20 13/1/20		
5	13 - 18 Jan	4	II	Steady Flow process apply to Nozzle, Turbine, Compressor, Pump, Boiler, Throttling Device, Heat Exchanger.	Activity 1.18 to 1.22	CP Arora, Thermodynamics, Chap. 4 & 5, page 105-221, Engineering Thermodynamics, P. K. Nag, Chap. 5, Page 87 -112	Video and PPT	27/1/20 27/1/20 28/1/20 28/1/20	Test 1	
6	27 Jan - 1 Feb	6	III	Unit III :- Second Law of Thermodynamics:- Introduction, Thermal Energy Reservoirs, Kelvin-Plank and Clausius Statements, Heat Engine, Refrigerator, Heat Pump,	Activity 1.23 to 1.28	CP Arora, Thermodynamics, Chap. 6, page 231-305, Engineering Thermodynamics, P. K. Nag, Chap. 6, 7 & 8 Page 117 -225	PPT	31/1/20 1/2/20 3/2/20 4/2/20 5/2/20 6/2/20		
7	3 - 7 Feb	5	III	Perpetual Motion Machine I and II, Carnot Cycle, Thermodynamic Temperature scale. Entropy: Clausius Inequility, Entropy, Principle of increase of Entropy, Change in Entropy for different Thermodynamics Processes with T-S Diagram	Activity 1.29 to 1.33	CP Arora, Thermodynamics, Chap. 6, page 231-305,Engineering Thermodynamics, P. K. Nag, Chap. 6, 7 & 8 Page 117 -225		7/2/20 15/2/20 17/2/20 18/2/20 19/2/20		
8				Sessional I						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter No. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
9	17 - 20 Feb	4	III & IV	, Reversible and Irreversible Processes, Availibility Unit IV Properties of Steam: - Sensible Heat, Latent Heat, Critical State, Triple Point, Wet Steam	Activity 1.34 to 1.37	CP Arora, Thermodynamics, Chap. 6, page 231-305, Engineering Thermodynamics, P. K. Nag, Chap. 6, 7 & 8 Page 117 -225		20/2/20 24/2/20 25/2/20 26/2/20		
10	24 - 29 Feb	6	IV	, Dry Steam, Superheated Steam, Dryness Fraction, Internal Energy of Steam, External Work Done during Evaporation,	Activity 1.38 to 1.41	CP Arora, Thermodynamics, Chap. 3, page 55-96, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314	PPT and Video	27/2/20 28/2/20 29/2/20 2/3/20 3/3/20		
11	2 - 7 Mar	6	IV	T-S Diagram, Mollier Chart, Work and Heat Transfer during various Thermodynamic Processes with steam as working fluid, Determination of Dryness Fraction using various Calorimeter. *Expert Lecture by Shri. Abhijit Pundlik on Boiler Operation*	Activity 1.42 to 1.45	CP Arora, Thermodynamics, Chap. 3, page 55-96, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314		4/3/20 5/3/20 6/3/20 7/3/20 9/3/20		
12	9 - 13 March	4	V	Unit V:-Vapour Power Cycle:- Introduction, Vapour Carnot Cycle, Rankine Cycle, Method to increase Thermal Efficiency,	Activity 1.46 to 1.48	CP Arora, Thermodynamics, Chap. 8, page 358-396, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 - 314	PPT	11/3/20 12/3/20 13/3/20 16/3/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter No. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	16 - 21 Mar	6	V	Reheat-Rankine Cycle, Regenerative Rankine Cycle with opened and closed feed water heaters.	Activity 1.49 to 1.52	CP Arora, Thermodynamics, Chap. 8, page 358-396, Engineering Thermodynamics, P. K. Nag, Chap. 9, Page 273 -314	PPT and Video	17/3/20 18/3/20 19/3/20 20/3/20 21/3/20		
14	23-27 Mar	5	VI	Air Standard Cycles: - Otto Cycle, Diesel Cycle, Dual Cycle,	Activity 1.53 to 1.55	CP Arora, Thermodynamics, Chap. 9, page 411-462, Engineering Thermodynamics, P. K. Nag, Chap. 12, Page 438 -475	PPT and Video	23/3/20 24/3/20 25/3/20 26/3/20 27/3/20		
15	30 - 31 Mar	2	VI	Brayton Cycle, Stirling Cycle, Ericsson Cycle	Activity 1.56	CP Arora, Thermodynamics, Chap. 9, page 411-462, Engineering Thermodynamics, P. K. Nag, Chap. 13, Page 504 - 559	PPT and Video	30/3/20 31/3/20		
16				Sessional II						

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CCOEW/MECH / 19-20 Date: 10/12/2019

LESSON & TEACHING PLAN

DEPARTMENT OF MECHANICAL ENGG.

Faculty Name: Prof. Vikram Dandekar						Subject: CSE		6th SEM (2019-20)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	16-21 Dec	5	1	Control System controls: Study of Control System components such as hydraulic actuators, Servomechanism D.C. and A.C. motor, liquid level control, Automobile Power Steering Control	MAT-Lab required	Feed back Control System by R.A.Barapatre pg.CSC-1 to CSC-20	NPTEL Videos	23|12|19 24|12|19 27|12|19		
2	23-27 Dec	5	1	Study and Analysis of performance characteristics, the concept of various types of system like machine tools, Prime movers, system generators, etc.	Discussion in on Various Automatic Appliances	Feed back Control System by R.A.Barapatre pg.CSC-1 to CSC-21	NPTEL Videos	27|12|19 30|12|19 31|12|19		
3	30 Dec-04 Jan	6	1	Modeling of Mechanical System: Basic Elements of Control System – Open loop and Closed loop systems – Differential equation – Laplace Transform –Transfer function,	Discussion in Class room on LT.	Feed back Control System by R.A.Barapatre pg.ICS-1 to ICS-15	NPTEL Videos	2|1|20 3|1|20 6|1|20		
4	06 -10 Jan	5	2	Electric systems, Electronic system and Electro-mechanical system. Concept of transfer function & its determination for physical systems.		Feed back Control System by R.A.Barapatre pg.ICS-1 to ICS-16	NPTEL Videos	6|1|20 9|1|20 10|1|20		

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FE(RD) DOM(AK)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
5	13-18 Jan	6	2	Transfer Function system Representation through Block Diagram and Signal Flow Graph: Block Diagram representation.	Discussion on system & block dia.	Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-112	NPTEL Videos	14/1/20 16/1/20 16/1/20		
6	20-24 Jan		ANNANYA CULTURAL FESTIVAL AND ALUMNIE MEET							
7	27 Jan -01 Feb	6	3	, Reduction Techniques for single and multiple input/output, Conversion of Block Diagram into Signal Flow Graph,		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-112	NPTEL Videos	27/1/20 28/1/20 29/1/20 30/1/20	29/1	
8	03 -07 Feb	5	3	Conversion of algebraic equation into Block Diagram and Signal Flow Graph. Transfer function through Block Diagram Simplification using		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-113	NPTEL Videos	31/1/20 3/2/20 4/2/20		
	10 - 14 Feb	Sessional I								
9	17-21 Feb	6	3	System Response & Time Domain Response Analysis: First and second order systems response to impulse, ramp and sinusoidal inputs, properties of unit step response of		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-113	NPTEL Videos	5/2/20 6/2/20 25/2/20		
10	24 -29 Feb	5	3	Signals: Step, Ramp, Impulse, Parabolic and Periodic signals with their mathematical representation and characteristics.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-114	NPTEL Videos	26/2/20 27/2/20 29/2/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
11	02 -07 Mar	6	3&4	Mode of Controls: Basic control actions and Industrial controllers, Introduction to P, PI and PID controllers their characteristics, representation and applications. Classification of industrial automatic		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-115	NPTEL Videos	2|3|20 3|3|20 4|3|20		
13	09 -13 Mar	6	4	Controller Mechanisms: Pneumatic, hydraulic and electric controllers, general principles for generating various control actions. UNIT 4:		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-116	NPTEL Videos	5|3|20 11|3|20 12|3|20	12|3|20	
14	16 - 21 Mar	5	5	Frequency Domain analysis - Correlation between time and frequency responses of a second order System. Bode & Polar plot: Determination of Gain Margin, Phase Margin and their Stability		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-117	NPTEL Videos	14|3|20 15|3 16|3		
15	23 -27 Mar	6	5	Inverse Bode Plot, Transportation lag, System Identification from Bode plot.**UNIT 6: State space representation of Continuous Time systems:** State equations, Transfer function from State Variable		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-118	NPTEL Videos	23|3 24|3 25|3 26|3		
16	23 -27 Mar	5	6	Stability criterion: Introduction to control system design lag lead compensation, Feed Back Compensation and Pole -Zero placement.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-119	NPTEL Videos	27|3 28|3 29|3		
18	04-09 April	6		**Sessional II**						

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CCOEW/AS / 18-19

Date: 09/12/2019

LESSON & TEACHING PLAN [redacted]

Department of Mechanical Engineering

Faculty Name: Prof. SUSHIL R. LANJEWAR				Subject: Automation In Production				Year : 2019-20		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	4- 6 Dec			RTMNU Exaternal Practical Examination						
2	9 - 14 Dec			Skill development Peogram						
3	16- 21 Dec	4	1	Definition, types, reasons, strategies for automating, arguments for and against automation. Organization and information processing in manufacturing	Group/ Each of students make search papers for New Trends in Automation & Make some charts	Automation, Production systems, & Computer Integreted Manufacturing By: M. P. Groover Pg. No. 6-21, 401-411.	PPT, Videos	18/12		
4	23-28 Dec	4	1	Automated Flow Lines- Methods of work part transport, Buffer storage Analysis of flow lines -General terminology and analysis, analysis of transfer lines without storage	making some small models for work part transport	Automation, Production systems, & Computer Integreted Manufacturing By: M. P. Groover Pg. No. 448-460		28/12		
5	30 Dec - 4 Jan	4	1	partial automation, manual assembly lines. Line Balancing Problem, Methods of line balancing. (Largest Candidate Rule & RPW) (L.C.R., RPW only)		Automation, Production systems, & Computer Integreted Manufacturing By: M. P. Groover Pg. No. 448-460, 142-181, 188-212		30/12		
6	6 - 11 Jan	4	2	Numerical Control Production Systems -Basic concepts, coordinate system and machine motion. Types of NC systems -Point to point, straight cut and continuous path.	Making some mdels & posters for NC & CNC	Automation, Production systems, & Computer Integreted Manufacturing By: M. P. Groover Pg. No. 142-181, 188-212	PPT Videos	07/01	06/01	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	13-18 Jan	4	2	Machine control unit and other components, part programming and tape formats, method of part programming, Introductionof manual part programming (NC words) Numericals on Lathe & Milling	Hadns on Practice on MPP	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover, Pg. No. 142-181, 188-212 CNC Machines By. P.N. Pabla Pg. No. 55-70	Working on MTAB MCU	15/01	16/01	
8	20-25 Jan			**Anannya Cultural Festival & Alumne meet**						
9	27 Jan -1 Feb	4	2	APT programming in details, Directed numerical control. Computer numerical control. Adaptive control. Applications of NC.	Hadns on Practice on APT using CAM module software	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover,Pg. No. 188-212 CNC Machines By. P.N. Pabla Pg. No. 55-70		19/01		
10	3 - 8 Feb	4	3	Industrial Robotics -Introduction, robot anatomy, accuracy and repeatability and other specifications, end effectors, sensors, introduction to robot programming, safety monitoring.	with the help Arduino use of Sensors	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 214-247	IIT lecturs, Videos	30/01		
11	10 - 15 Feb			**Sessinal - I**						
12	17-22 Feb	4	3	Robotapplications -Characteristics of robot applications, work cell layout, robot applications in materialhandling, processing, assembly and inspection.		Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 214-247	IIT lecturs, Videos	26/02		
13	24 - 29 Feb	4	4	Automated material handling & storage: Automated Guided Vehicle Systems -Types: Driverlesstrains, AGVS pallet trucks, AGVS unit-load carriers. Vehicle guidance & routing, Traffic control &safety, System management, Analysis of AGVS systems, AGVS applications.	with the help of final year projects students will do different programmings for AGVs	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 214-247, 274-	IIT lecturs, Videos, PPT	29/02		
14	2 - 7 Mar	4	4	Automated Storage & Retrieval System Types: Unit load AS/RS, mini load AS/RS, man on board AS/RS, automated item retrieval system, deep lane AS/RS - Basic components & special features of AS/RS. Carousel storage systems, work in process quantitative analysis.	Industrial Visit	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 276-305		07/03		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
15	9 - 14 Mar	4	5	Automated inspection & Group technology: Automated inspection principles & methods -100% automated inspection, off-line & on -line inspection, distributed inspection & final inspection; Sensor technologies to; automated inspection, coordinate. measuring Machine Construction, operation &	Industrial Visit	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No.314-329	IIT lecturs, Videos, PPT	14/03		
16	16-21 Mar	4	5	Machine vision image acquisition & digitization, image processing & analysis, interpretation, machine vision applications, Group Technology: Part families, parts classification & coding, Opitz classification systems production. Flow analysis; Machine cell design -composite pat concept, types of cell design, best machine arrangement, benefits of group technology.	at wokshop students will separate the different tools / work pieses to understand the Part familty	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 507-530, 540-560	IIT lecturs, Videos, PPT	21/03		
17	23- 31 Mar	6	6	Computer aided manufacturing - Manufacturing planning, manufacturing control; Computer integrated manufacturing FMS - Components, Types of systems, FMS layout configuration computer functions, data files, system reports, FMS benefits Retrieval CAPP systems, generative CAPP systems, benefits of CAPP.	Group of students will make mini model FMS system	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 540-560, 720-732, 749	IIT lecturs, Videos, PPT	31/03		
18	1 - 8 April			Sessinal - II						

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CCOEW/ME/ 19-20

Date: 16/12/2020

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar | **Subject: Refrigeration and Air Conditioning** | **SEM: VIII (2019-20)**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16-21 Dec	4	V	Advanced Psychometric & Heat Load Calculations: Introduction to psychometric properties and processes of air. Classification of air conditioning systems,	Activity 1.1	Refrigeration and Air Conditioning, R.S.Khurmi, Chap.16 and 18, Page no. 467-533, 549-596, Vth edition.	Chart	16/12/19 17/12/19 18/12/19 20/12/19		
2	23-27 Dec	3	V	Applications of psychometry to various air conditioning systems,	Activity 1.2,1.3,1.4	Refrigeration and Air Conditioning, R.S.Khurmi, Chap.16 and 18, Page no. 467-533, 549-596, Vth edition.	CHart	23/12/19 24/12/19 29/12/19		
3	30 Dec - 4 Jan	4	V & VI	Unit V : RSHF, ESHF, GSHF, air washers, air coolers. Unit VI: Air Transmission & Distribution: Principle of air distribution,	Activity 1.5,1.6, 1.7	Refrigeration and Air Conditioning, R.S.Khurmi, Chap.16 and 18, Page no. 467-533, 549-596, Vth edition.	Chart and PPT	30/12/19 31/12/20 3/1/20 3/1/20	3/1/20	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	6 - 10 Jan	4	VI	types of grilles & diffusers & their selection criteria, air filtration, types of air filters, distribution of air through ducts,	Activity 1.8,1.9	Refrigeration and Air Conditioning, R.S.Khurmi, Chap.16, 17 and 18, Page no. 467-533, 549-596, Vth edition.	PPT	4/1/20 10/1/20 13/1/20 27/1/20	13/1/20	
5	13 - 18 Jan	3	VI	pressure losses in ducts, methods of duct design, duct friction chart, air conditioning controls	Activity 1.10,1.11, 1.12	Refrigeration and Air Conditioning, R.S.Khurmi, Chap.16, 17 and 18, Page no. 467-533, 549-596, Vth edition.	Video and PPT	27/1/20 27/1/20 28/1/20 28/1/20		
6	27 Jan - 1 Feb	4	IV	Unit IV : Cryogenics: Introduction, application of cryogenics,	Activity 1.13, 1.14	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 14, Page no. 422-449, Vth edition.	Video, PPT	31/1/20 3/2/20 4/2/20 ~~6/2/20~~		
7	3 - 7 Feb	4	IV	cascade system, Joules Thomson coefficient, inversion curve, methods of liquefaction of air with analytical treatment.	Activity 1.15	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 14, Page no. 422-449, Vth edition.	PPT	5 4/2/20 5/2/20 6/2/20 7/2/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
8				Sessional I						
9	17 - 20 Feb	3	I	Refrigeration: Introduction, unit of refrigeration, analysis of simple vapour compression refrigeration system,	Activity 1.16	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 4, Page no. 125-193, Vth edition.	Model and Set Up	17/2/20 18/2/20 19/2/20		
10	24 - 29 Feb	4	I	analysis of simple vapour compression refrigeration system, Refrigeration System: Aqua Ammonia, Lithium Bromide- Water system, effect of sub cooling, superheating on coefficient of performance.	Activity 1.17	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 4, Page no. 125-193, Vth edition.	PPT and Video	24/2/20 25/2/20 26/2/20 28/2/20		
11	2 - 7 Mar	4	I & II	Study of Vapour Absorption, Refrigerants – Properties, classification, nomenclature, its global warming & ozone depletion potential, montreal protocol, kyoto protocol, alternate refrigerants. Unit II: Compound Vapour Compression Refrigeration system	Activity 1.18,1.19	Refrigeration and Air Conditioning, R.S.Khurmi, Chap. 8 and 5, Page no. 294-315, 194-233 Vth edition.	PPT	2/3/20 3/3/20 4/3/20 6/3/20		

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CCOEW/ME/ 19-20

Date: 16/06/2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Y. V. Dandekar | Subject: E-Metallurgy | SEM 3 (2019-20) | Sem.:- 3

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	01	06	01	Introduction to engineering materials, their classification, their properties and applications, Difference between metals and non-metals, Mechanical properties of materials	Various engineering materials like bolts,tools, measuring devices, electonic parts, plastics	Material science and metallurgy for engineers by KODGIRE, Chp.1 & 2, Page 1 to 59 and Introduction to physical metallurgy by AVNER, Chp.2 & 3, Page 65 to128	ppt/video	29/06/19		
2	02	05	01	Study of crystal structure, polymorphism and allotropy,Microscopic and macroscopic examination, Miller indices, Imperfections in crystal structure, Mechanism of plastic deformation, slip, dislocations and twinning	Thermocol balls, toothpicks	Material science and metallurgy for engineers by KODGIRE, Chp.1 & 2, Page 1 to 59 and Introduction to physical metallurgy by AVNER, Chp.2 & 3, Page 65 to128	NPTEL video	06/07	03/07	
3	03	04	02	Solidification of pure metals, nucleation & growth, directional & progressive solidification, Ingot structure, dendritic solidification, solid solutions and their types, Alloy & their formation, mechanical mixture, Hume Rothery rules, Grain shape & size & their effect on the properties, Binary equillibrium diagram, isomorphus system	Student presentations in groups/Quiz	Material science and metallurgy for engineers by KODGIRE, Chp.9, Page 308 to 416 and Introduction to physical metallurgy by AVNER, Chp.4, Page 129 to 146	video files in personal collections	13/07		
4	04	05	02	Study of Fe-Fe3C diagram, uses & limitations, Invarient reactions, TTT curve, construction & limitations,	drawing the Fe-Fe3C diagram on graph paper & its study in groups for different tasks given by the teacher	Material science and metallurgy for engineers by KODGIRE, Chp.5, Page 159 to 203	ppt	25/07		
5	05	03	03	Heat treatment, principle purpose, Annealing & its types, Normalizing, Tempering,	Performing Annealing heta treatment on SAE 1050 steel	Material science and metallurgy for engineers by KODGIRE, Chp.11&12, Page 455 to 510 and Introduction to physical metallurgy by AVNER, Chp.11&12, Page423 to 546	videos, ppt	02/08		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	ity/ Teaching Aid	Refrence Book - Chapter no. Page no,editio.	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
6	23 July-27 July			Martempering, Austempering, Hardening, Retained austenite, its effect & elimination.,Maraging, Patenting, surface hardening like carburising, Nitriding, induction hardening, flame hardening,	Performing Hardening heta treatment on SAE 1050 steel	Material science and metallurgy for engineers by KODGIRE, Chp.11&12, Page 455 to 510 and Introduction to physical metallurgy by AVNER, Chp.11&12, Page423 to 546	videos, ppt	03/08 13/08	13/08	
7	30 July-4 Aug			Jominy end quench test for hardenability, Plain carbon steels, classification based on carbon % and applications, limitations, Effect of impurities, alloy steel, effect of various alloying elements.		Material science and metallurgy for engineers by KODGIRE, Chp.3, Page 61 to 144		24/08		
8						Sessional -I				
9	13 Aug-18 Aug			Tool steels, its classification, composition & applicationsred hardness, Stainless steel, its classification, composition & applications, Hadfield managnese steel, maraging steel, OHNS steel, selection of steel for various purpose	Discuss various tool steels in class, show tools to the students, discuss on their properties & applications	Material science and metallurgy for engineers by KODGIRE, Chp.14, Page 531 to 560,		18/08		
10	20 Aug-24 Aug			Cast iron, types, white C.I., Grey C.I., Malleable, Nodular, mottled CI, Mechanite alloy,		Introduction to physical metallurgy by AVNER, Chp.16, Page 605 to 632 ,Material science and metallurgy for engineers by KODGIRE, Chp.10, Page 417 to 454 and Introduction to physical metallurgy by AVNER, Chp.9&10, Page 349 to 422		31/08	31/08	
11	27 Aug-31 Aug			Bronzes, allumunium alloy, brasses & its types		Material science and metallurgy for engineers by KODGIRE, Chp.12, Page 483 to 510,	ppt	08/09		
12	3 Sep- 8 Sep			principle of hardness measurement, rockwell tets, vickers test, brinell test for hardness. Introduction to non destructive testing		Material science and metallurgy for engineers by KODGIRE, Chp.3, Page 61 to 144		15/09	12/09	
13	10 Sep-15 Sep			Ultrasound, die-penetration test. Radigraphy test, Powder metallurgy--introduction, metal powder & its production, Blending & mixing, Compaction & Sintering, Hot isostatic pressing, secondary processes,		Material science and metallurgy for engineers by KODGIRE, Chp.3, Page 61 to 144	pdf files, ppt, video			
14	17 Sep-21 Sep			Advantages & limitations& application of PM, few products like self lubricated bearing, gears & pump rotors, PM products like electric contacts & electrodes, Magnets, diomand impregnated tools		Material science and metallurgy for engineers by KODGIRE, Chp.14, Page 531 to 560, Chp.14, Page 531 to 560	video			
15						Sessional II				

Faculty in Charge

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Lab Practicals Plan

CCOEW/Department of MECH / Odd sem 19-20

Department: Mechanical Engg.	Semster: III Sem
Subject: Machine Drawing	Faculty Name: S. R. Lanjewar

			Batch # 1					
Sr. No.	Sheet No.	Content of Sheets	Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark	Principal
	print	print	print	fill	fill	fill	fill	
1	S1	Conventional representation of Symbols for standard feachers, weld symbols, standard components	3-Jul-19	03/July		03/07		
2	S2	Orthographic views of standared components	17-Jul-19	17/07				
3	S3	Pencil Drawings of sectional views of machine components.	7/31//2019	25/07				
4	S4	Pencil Drawings of some standard components. (e.g. Nut, Bolts, Screws, Screw Fasteners)	7-Aug-19	14/08				
5	S5	Pencil Drawings of standard standard components.(e.g. Keys, cotter, cotter joints & Couplings)	14-Aug-19	28/08				
6	S6	Pencil Drawing of a small assembly with components (e.g. Plumer Block)	28-Aug-19	04/09				
7	S7	Pencil Drawings of a large assembly with component drawings, using all standard formats (e.g. Screw Jack)	4-Sep-19	04/09				
8	S8	Process Sheets for one component having maximum five operations.	11-Sep-19	11/09				
9	S9	Computer Print out on Three Dimension Modeling using CAD software.	18-Sep-19	18/09				

Subject Teacher

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CCOEW/ MECH / 19-20

Date: 26 / 06 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale						Subject: Manufacturing Processes		SEM -ODD (2019-20)			Sem:- III	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	24 June - 29 June	5	1	Introduction to casting.	Activity of pouring wax and pouring of water for ice making	1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234]		26/6/19				
				Pattern and it's types.	Foundry Shop			1/7/19				
				Pattern making: Materials used			PPT	3/7/19				
				Pattern making allowances.			PPT	3/7/19				
2	1 July- 6 July	5	1	Color codes. Core making and Types of core. Core material & its properties.		1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234]	PPT	4/7/19				
				Moulding and it's types like sand moulding.	Activity for (sand and clay) moulding		https://www.youtube.com/watch?v=vbmw	5/7/19				
				Sand composition, Moulding sand properties.	Foundry Shop			6/7/19				
				Moulding machines.			PPT	8/7/19				
				Shell moulding, CO2 moulding.			PPT	10/7/19				
3	8 - 12 July	4	1 & 2	Gating System and Elements of gating systems		1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234] from IIT Kharagpur	PPT	15/7/19				
				Types of Casting Processes			PPT	15/7/19				
				Sand mould casting	Activity for mould making and pouring wax in mould		PPT	16/7/19				
				Gating design. Pouring equipments, Riser design			https://www.youtube.com/watch?v=tFQ7U	17/7/19				
				Melting furnaces -Types. Electric furnace,	Foundry Shop		https://www.youtube.com/watch?v=g0A0-					
4	15 July - 20 July	5	2	Induction furnace		1) Manufacturing Science - Ghosh & Malik [37-97]; 2) Workshop Technology (Volume I)- Hajra Chaudhary [306-425]; 3)Manufacturing Technology- P.N.Rao [55-234]	PPT	18/7/19				
				Cupola construction & operation.	Foundry Shop		PPT	19/7/19				
				Cleaning, inspection			PPT	20/7/19				
				casting defects			https://www.youtube.com/watch?v=zSPao	22/7/19				

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CCOEW/ MECH / 19-20

Date: 26 / 06 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale						Subject: Manufacturing Processes		SEM -ODD (2019-20)				Sem:- III	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
5	22 July-26 July	4	2 & 3	Foundry mechanizing		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur		24/7/19	26/7/19	29/7/19		
				Special casting processes such as investment Casting			https://www.youtube.com/watch?v=cptlGz	25/7/19				
				Centrifugal casting			https://www.youtube.com/watch?v=D5Jj_krII7c	26/7/19				
				Slush and Die Casting.				29/7/19				
				Introduction to metal Joining			https://www.youtube.com/watch?v=elmDvqdeMKI					
6	29 July- 3 Aug.	4	3	Arc Welding Processes.		1) Production Technology -R. K. Jain 2) Production Engg. - P.C.Sharma 3)Non-Conventional Manufacturing Processes, H.S. Shan, 4) Soft notes from IIT Kharagpur		16/8/19				
				Gas Welding Processes.	Activity by using soldering		https://www.youtube.com/watch?v=9gVoigDAeVY					
				Defects & Inspection of Welding Joints.			PPT					
				Electrodes, weldability of Metals.	Activity for understanding electrodes		PPT					
	30 July-03 Aug			Sesional - I								
7	5 August -9 Aug	5	3 & 4	Welding equipments. Fixtures		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	PPT		21/8/19	23/8/19		
				TIG Welding.			https://www.youtube.com/watch?v=elmDv					
				MIG Welding.			https://www.youtube.com/watch?v=y0SNF	21/8/19				
				Spot Welding.			PPT					
				Introduction to Forming Process for metals			PPT	23/8/19				
8	13 Aug - 18 Aug	3	4	Rolling, Forging	Activity to understand drawing		https://www.youtube.com/watch?v=k6iOD					
				Extrusion, Drawing	Activity of understanding extrusion		https://www.youtube.com/watch?v=T9N1jy9lxd4	26/8/19				
				Mechanics of forming process,								
9	19Aug -23 Aug	3	4	Determination of Rolling pressure and roll specification force		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	https://www.youtube.com/watch?v=AuuP8					
				Drive force and torque, power loss in bearing			https://www.youtube.com/watch?v=xWLe	27/8/19				
				Determination of forging forces and stresses			https://www.youtube.com/watch?v=xzi60B					

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Date: 26 / 06 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh N. Khekale						Subject: Manufacturing Processes		SEM -ODD (2019-20)			Sem:- III	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
10	26 Aug- 31 Aug.	3	4 & 5	Equipment (hammer/press) capacity required.		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	PPT	21/9/19				
				Introduction to Press Working	Activity of understanding Press		https://www.youtube.com/watch?v=T8R2dc...	23/9/19				
				Classification of Press Working,			https://www.youtube.com/watch?v=qTuPkr...	25/9/19				
				Types of presses and Press terminology			https://www.youtube.com/watch?v=NP0BTnfO2qA					
11	3 Sept - 7 Sept	4	5	Force analysis in press, Die cutting operation		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	https://www.youtube.com/watch?v=74zPY...	26/9/19				
				Types of dies, Die and punch allowance			https://www.youtube.com/watch?v=qTuPkr...	27/9/19				
				Introduction to shaping operations	Activity to understand shaping		PPT					
				Introduction to bending, forming and drawing.	Activity to understand bending		https://www.youtube.com/watch?v=L0YgS...					
12	9 Sept- 13 Sept	4	5 & 6	Introduction to Plastics		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	PPT	4/9/19				
				Properties of plastics			PPT	5/9/19				
				Types of Plasics			PPT					
				Applications of plasics			PPT					
13	16 Sept- 21 Sept	5	6	Introduction of Forming & Shaping of plastics		1) Manufacturing Science - Ghosh & Malik 2) Workshop Technology (Volume I)- Hajra Chaudhary3)Textbook of Production Engineering - P.C. Sharma, 4) Soft notes from IIT Kharagpur	https://www.youtube.com/watch?v=gn16lt...	7/9/19				
				Extrusion, injection moulding	Activity to understand extrusion		https://www.youtube.com/watch?v=WaB-...					
				Blow moulding, Wire drawing	Activity to understand wire drawing		https://www.youtube.com/watch?v=b1U9W...	18/9/19				
				Compression and Transfer moulding			https://www.youtube.com/watch?v=b1U9W...	19/9/19				
				Embossing, Calendaring.			PPT	20/9/19				
17/09/2017 to 21/09/2017				Internal Pracctical / Final Submission								
24/09/2017 to 30/09/2017				Sessional - II								

Faculty

H. O. D.

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CCOEW/ME/ 19-20

Date: 20/06/ 2019

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar						Subject: Heat Transfer		SEM: V (2019-20)		
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24-29 June	6	I	Introduction to basic modes of heat transfer, conduction, convection & radiation. Laws of heat transfer & conservation of energy requirement. General heat conduction equation in cartesian, cylindrical and spherical coordinates.	Activity 1.1, 1.2,1.3 1.4,1.5	Heat & Mass Transfer by R.K. Rajput. Ch. 1 & 2, Page 1-24, 27-37, 5th Edition		24/6/19 25/6/19 26/6/19 27/6/19 28/6/19 29/6/19		
2	1-6 July	6	I	One dimensional steady state heat conduction equation for the plane wall, cylinder and sphere, overall heat transfer coefficient. Thermal resistance of composite structure,	Activity 1.6-1.11	Heat & Mass Transfer by R.K. Rajput, Ch. 2, Page 35-132, 5th Edition	PPT	1/7/19 2/7/19 3/7/19 4/7/19 5/7/19 6/7/19		
				Unit I : contact resistance, variable thermal		Heat & Mass		6/7/19 8/7/19		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	8-12 July	4	I & II	conductivity, Unit 2 : Conduction with internal heat generation for plane wall, cylinder and sphere.	Activity 1.12 to 1.15	Transfer by R.K. Rajput, Ch. 2, Page 142-200, 5th Edition	PPT	9/7/19 10/7/19 10/7/19 11/7/19	11/7/19	
4	15-20 July	6	II	Extended surface, types of fins. Fins of uniform cross section area, temperature distribution, heat transfer rate, fin efficiency & effectiveness.Error in temperature measurement.	Activity 1.16 to 1.21	Heat & Mass Transfer by R.K. Rajput, Ch. 2, Page 203-250, 5th Edition	NPTEL	15/7/19 16/7/19 17/7/19 22/7/19 23/7/19 24/7/19	1	
5	22-26 July	5	II	Unsteady state heat transfer, lumped heat capacity analysis, Heisler's charts. Biot Number, Fourier's Number & its significance. Tutorial	Activity 1.22 to 1.26	Heat & Mass Transfer by R.K. Rajput, Ch. 4, Page 290-336, 5th Edition	Video and PPT	25/7/19 25/7/19 26/7/19 27/7/19 28/7/19		
6	29-Jul	1	III	Forced convection, Concept of hydrodynamics & thermal boundary layer thickness,	Activity 1.27	Heat & Mass Transfer by R.K. Rajput, Ch.7, Page 373 -492, 5th Edition	PPT	29/7/19		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7				Sessional I						
8	5-9 Aug	5	III	Unit III: local and average heat transfer coefficient. physical significance of non-dimensional parameter. Flow of high, moderate & low Prandtl number, fluid flow over a flat plate. Empirical co-relations for external, internal flows, laminar & turbulent flow through conduits. Tutorial	Activity 1.28 to 1.32	Heat & Mass Transfer by R.K. Rajput, Ch.7 & 8, Page 373 -492,	Video	5/8/19 6/8/19 6/8/19 7/8/19 7/8/19		
9	12-17 Aug	4	III & IV	Dimensional analysis applied to forced convection. Pool boiling curve & regimes of pool boiling, Film & Drop wise condensation, laminar film condensation on vertical surface, on horizontal tubes, effect of super heated & non-condensable gases on condensation heat transfer, Tutorial Unit IV: Unit IV: Free or natural convection.	Activity 1.33 to 1.36	Heat & Mass Transfer by R.K. Rajput 506-530, 539-570,5th Edition	PPT and Video	8/8/19 9/8/19 13/8/19 14/8/19	~~9/8/19~~	
10	19-23 Aug	5	IV	Grashoff's number, Rayleigh number, flow over horizontal and vertical plate, Empirical Co-relations for cylinders and spheres, heat transfer with phase change,	Activity 1.37 to 1.41	Heat & Mass Transfer by R.K. Rajput 539-570, 673-687, 5th Edition	PPT	16/8/19 19/8/19 19/8/19 20/8/19 21/8/19	21/8/19	

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	26-31 Aug	2	IV & V	Dimensional analysis applied to free of Natural convection. Unit V: Radiation, spectrum of radiation, black body radiation, radiation intensity, laws of radiation-Kirchoffs, Plancks, Weins displacement law, Stefan Boltzmann & Lamberts Co-sine law	Activity 1.42 to 1.45	Heat & Mass Transfer by R.K. Rajput Page 688-764, 5th Edition	PPT	21/8/19 23/8/19 27/8/19		
12	3-7 Sept.	4	V	Emissivity, Absorbtivity, Transmissivity, Reflectivity, Radiosity, Emissive power, Irradiation. Radiation network, , shape factor & its laws,	Activity 1.45 to 1.48	Heat & Mass Transfer by R.K. Rajput 574-669,5th Edition	PPT and Video	3/9/19 4/9/19 5/9/19 9/9/19		
13	9-13 Sept	4	V & VI	Radiation exchange between parallel plate cylinder & sphere Heat exchanger : Classification, overall heat transfer coefficient, fouling factor, LMTD & effectiveness, NTU method of heat exchanger analysis for parallel,	Activity 1.50 to 1.53	Heat & Mass Transfer by R.K. Rajput 574-669, 5th Edition	PPT and Video	10/9/19 11/9/19 13/9/19 16/9/19	16/9/19	
14	16-21 Sept	6	VI	Counter flow & cross flow arrangement, design aspect of heat exchangers, Introduction to compact heat exchanger, Heat Pipe, Tutorial	Activity 1.54 to 1.59	Heat & Mass Transfer by R.K. Rajput 574-669, 5th Edition	PPT and Video	17/9/19 18/9/19 19/9/19 20/9/19 23/9/19 24/9/19		
15	23-Sep	1	VI	Introduction to mass transfer.	Activity 1.60		PPT and Video	25/9/19 26/9/19		
16				Sessional II						

Faculty in Charge

HOD

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Lab Practicals Plan

SESSION: 2019-20

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. P. S. Mahankar		Subject: HT (Pr)	V Sem	Department: MECH			No. of Batches: 02	
			Batch # 1					
PR	Name of experiment		Planned Date	Perform Date	No. Journals received	No. of Viva done	HoD's Remark	Principal
P1	Determination of thermal conductivity of metal rod		7/3/2019	10/7/19				
P2	Determination of temperature distribution of heat transfer plate from a fin under (a) Forced convection (b)Free convection		7/10/2019	17/7/19				
P3	To determine heat transfer coefficient in forced convection.		7/17/2019	24/7/19				
P4	Determination of Stephen-Boltzmann constant		7/24/2019	7/8/19				
P5	Determination of condensation heat transfer in a film wise & drop wise nodes.		8/7/2019	14/8/19				
P6	To determine heat transfer rate, overall heat transfer coefficient and effectiveness of parallel and counter flow heat exchanger		8/14/2019	21/8/19				
P7	To determine heat transfer coefficient in natural convection for horizontal cylindrical bar.		8/21/2019	28/8/19				
P8	Study of heat pipes.		8/28/2019	4/9/19				
P9	To study heat transfer enhancement due to increase in turbulence		9/4/2019	28/8/19				

LAB INCHARGE

HOD-ME

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CCOEW/MECH/ 18-19

Date: 10/06/2019

LESSON & TEACHING PLAN

Faculty Name: Prof. Sushil R. Lanjewar						Subject: APP		ODD SEM (2019-20)		Sem:- 5th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity / Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24 June - 29June	5	1	Introduction to Basic Production processes, Tools used in manufacturing, cutting tool material used in manufacturing, Non- conventional machining Processes: Introduction & classification,		Manufactruing Processes By J P Kaushish Pg. 773-797		26/06		
2	1 July - 6 July	5	1	Electrochemical machining, Electrical Discharge, Ultrasonic machining advantages, disadvantages and applications of above processes.		Manufactruing Processes By J P Kaushish Pg. 773-797	PPT, Vedios, Soft notes from IIT Kharagpur	02/07		
3	8 July - 13 July	5	1	Laser beam machining, Electron beam machining, Water jet machining, Abrasive jet machining Advantages, disadvantages and applications of above processes.		Manufactruing Processes By J P Kaushish Pg. 773-797	PPT, Vedios,	06/07	06/07	
4	15 July - 20 July	5	2	Advanced joining Processes : Introduction and classification of welding techniques, Advanced welding processes such as TIG, MIG welding,		Manufactruing Processes By J P Kaushish Pg. 501-609	Vedios,	96/07		
5	22 July - 27 July	5	2	Plasma arc welding, Oxyacetylene welding Atomic hydrogen welding , Laser beam welding, construction, working, applicationa, advantages and disadvantages		Manufactruing Processes By J P Kaushish Pg. 501-609	Vedios,	23/07		

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CCOEW/MECH/ 18-19

Date: 10/06/2019

LESSON & TEACHING PLAN

Faculty Name: Prof. Sushil R. Lanjewar						Subject: APP		ODD SEM (2019-20)		Sem:- 5th
WEEK No.	**Week**	**No. Of Lect.**	**Unit No.**	**Exact Topic Name & Subtopic**	**Activity / Teaching Aid**	**Refrence Book - Chapter no. Page no,edition. No**	**ICT tools**	**Completion Date**	**Assignment/Tutorial Date**	**HOD's sign**
6	30 July - 3 Aug		2	Electron beam welding , Electro slag welding, construction, working, applicationa, advantages and disadvantages		Manufactruing Processes By J P Kaushish Pg. 501-609	Vedios,	23/07		
7	5 Auj - 10 Aug		2	Electron beam welding , Electro slag welding, construction, working, applicationa, advantages and disadvantages		Manufactruing Processes By J P Kaushish Pg. 501-609	Vedios,	26/07		
8	12 Aug - 17 Aug			**Sessional I**						
9	19 Aug - 24 Aug		3	Introduction to micromachining, nanofabrication, high energy rate forming.		Manufactruing Processes By J P Kaushish Pg. 722-723		07/08	07/08 Tutorial 1 Assign.	
10	26 Aug - 31 Aug		4	Die cutting operations: Introduction, Sheet metal cutting, Sheet metal forming, Sheet metal drawing,		Manufactruing Processes By J P Kaushish Pg. 666-690	PPT, Vedios,	16/08		

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CCOEW/MECH/ 18-19

Date: 10/06/2019

LESSON & TEACHING PLAN

Faculty Name: Prof. Sushil R. Lanjewar						Subject: APP		ODD SEM (2019-20)		Sem:- 5th
WEEK No.	**Week**	**No. Of Lect.**	**Unit No.**	**Exact Topic Name & Subtopic**	**Activity / Teaching Aid**	**Refrence Book - Chapter no. Page no,edition. No**	**ICT tools**	**Completion Date**	**Assignment/Tutorial Date**	**HOD's sign**
11	2 Sep - 7 Sep		4	defects in drawn parts, Spinning, Equipments for sheet metal working, Die and punch.		Manufactruing Processes By J P Kaushish Pg. 666-690	PPT, Vedios,	24/09		
12	9 Sep - 14 Sep		5	Jigs and fixtures: Introduction, principles of jig and fixture, Principle of location, jig bushes,		Manufactruing Processes By J P Kaushish Pg. 840-874	PPT, Vedios,	07/09		
13	16 Sep - 21 Sep		5	Drilling jigs, type of clamps, classification of fixtures.		Manufactruing Processes By J P Kaushish Pg. 840-874	PPT, Vedios,	18/09		
14	23-Sep		6	Super finishing processes: Introduction, Principle operation ofsuper finishing process, Lapping, Honing, Buffing & Electroplating. advantages, disadvantages and applications of above processes.		Manufactruing Processes By J P Kaushish Pg. 480-484, 901-903	PPT, Vedios,	26/09		
15	24 Sep - 30 Sep			**Sessional II**						

Faculty Incharge

HoD

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CCOEW/MECH / 19-20

Date: 17/06/2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vikram Dandekar						Subject: DME		5th SEM (2019-20)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24-29 June	6	1	Introduction to mechanical engineering design, design methods.	will take examples of product,what modification or alteration will possible.	Machine Design By Khurmi Gupta ch.1.pg.1-8	show PPTs on design Aspects	24|6 25|6 26|6		
2	1-6 July	6	1	Material properties and their uses in design.basic principal of machine design, modes of failure, I.S.codes, preffered series and numbers.	discuss about various metals and use in making products	Machine Design By Khurmi Gupta ch.2.pg.16-52	show PPTs on design Aspects	27|6 28|6 1|7	27|6|19	
3	8-11 July	6	1	Design of knuckle joint, socket and spigot type cotter joints.Design of riveted joints, Aesthetic and ergonomics consideration in design.	will make joint model with mud and chk its failure by loading	Machine Design By Khurmi Gupta ch.9.pg.281-340	show videos on joints	2|7 3|7 4|7		
4	15-20 July	6	2	Design of bolted Joints.Design of welded joints under axial and eccentric loading condition.	discuss on clamps fixed on wall of classroom.	Machine Design By Khurmi Gupta ch.1.pg.8-17	show videos on joints	5|7 8|7		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	22-26 July	5	2	Design of cylinder and pressure vessels: Types of pressure vessel, stresses induced in pressure vessel, lame's, clavarino's and bernie's equation.	discuss on water bottle and various vessels.	Machine Design By Khurmi Gupta ch.7.pg.224-260	show videos on pr.vessels.	9|7 11|7 15|7		
6	29 July-3 Aug			Sessional I						
7	5-9 Aug	5	2	Design of cylinder and pressure vessels: Types of pressure vessel, stresses induced in pressure vessel, lame's, clavarino's and bernie's equation.	discuss on water bottle and various vessels.	Machine Design By Khurmi Gupta ch.7.pg.224-261	show videos on pr.vessels.	16|7 17|7 18|7		
8	13-17 Aug	6	3	Design of shaft for - power transmitting, power distribution under static and fatigue criteria, Design of keys, ASME codes for shaft.	shaft models made by sticks and bending	Machine Design By Khurmi Gupta ch.13.pg.470-508	NPTEL video	19|7 20|7		
9	19-23 Aug	5	3	Design of springs: spring material, helical compression, tension springs under static and variable loads.	spring shown on college bus.	Machine Design By Khurmi Gupta ch.23.pg.820-844	videos on spring types and applications	22|7 23|7		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	26-31 Aug	6	3&4	Design for fatigue loading, leaf spring,laminated springs.Design of power screw: Forms of threads, multiple threaded screws, terminology of power screw.	leaf spring shown on college bus.	Machine Design By Khurmi Gupta ch.23.pg.845-884	NPTEL video	26|7 29|7 13|8 14|8 16|8		
11	3 - 7 Sep	5	4	Design of screw jack.Problems on screw jack.	screw jack model and working will show	Machine Design By Khurmi Gupta ch.17.pg.624-676	PPT on screw jack	3|9 7|9 10|9		
12	09-14 Sep	6	4	Design of clutches and brakes: Single and multiple plate clutch, constant wear and constant pressure theory for plate clutches, Internal and external shoe brakes.	Brakes and clutch models will show	Machine Design By Khurmi Gupta ch.24,25.pg.885-961	video on brakes and clutches	11|9 18|9 19|9		
13	16-21 Sep			Internal practical and Final submission						
14	23-27 Sep			Sessional II						

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Faculty in Charge

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CCOEW/MECH / 19-20

Date: 17/06/2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vikram Dandekar | Subject: MMM | 5th SEM (2019-20) | Sem:- ODD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24-29 June	6	1	Purpose, structure and elements of measuring system. Static characteristics of measurement system,elements including systematic, statistical characteristics, generalized model of system elements and	Available instrument show and explain how to calibrate	Mechanical Measurement & Control By Dr. D.S. Kumar Page no 1- 30	Own PPT and Videos downloaded	24|6 25|6 26|6		
2	1-6 July	6	1	calibration. Error measurement, error probability density function, error reduction. Introduction to dynamic characteristics of measurement system. Introduction to noise in measurement system.		Mechanical Measurement & Control By Dr. D.S. Kumar Page no 33-150	Own PPT and Videos downloaded	27|6 29|6 1|7 2|7	2|7|19	
3	8-11 July	6	2	Classification, Principle, Sensing elements, Signal conditioning elements, Construction, Range and working of instruments for measurement of Linear	Showing available Pressure Measuring instruments	Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	3|7 4|7 9|7		
4	15-20 July	6	2	and Angular Displacement, Speed, Load, Strain, Force, Torque and Power. (Analytical treatment not included)	Showing available Temperature Measuring instruments	Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	11|7 15|7 16|7		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	22-26 July	5	3	Classification, Principle, Sensing elements, Signal conditioning elements, Construction, Range and working of instruments for measurement of Pressure, Vacuum, Sound, Light and Temperature. (Analytical treatment not included)		Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	18/7 22/7 23/7 26/7	~~18/7~~ ~~22/7~~ 23/7 ~~26/7~~	
6	29 July-3 Aug			Sessional I						
7	5-9 Aug	5	4	Standards of Measurement, Line, End and Wavelength standard. Working standards, Requirement of Interchangeability, Allowance and Tolerance, Selective assembly. Measurement of Straightness and Flatness.	Showing available Force Measuring Instruments	Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	29/7 13/8 14/8		
8	13-17 Aug	6	4	Instruments for Linear and Angular Measurement. (Vernier, Angle gauge, Sine bar, Level Indicator, Clinometers and Taper gauge)		Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	20/8 22/8 27/8		
9	19-23 Aug	5	5	Limits and Fits, Tolerance analysis of Limits and Fits, Types of limit gauges,	Using Vernier, SINE bar, gauges	Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	3/9 4/9 5/9		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	26-31 Aug	6	5	Types of fit, Shaft and Hole basis system, Design of Limit gauge and Process planning sheet (Numerical treatment is expected).	By creating/Manufacturing GO/NO-GO gauges	Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	9|9 11|9 16|9		
11	3 - 7 Sep	5	6	Comparators: Mechanical, Optical, Electrical, Electronic, Pneumatic. Study and use of Optical profile projectors,		Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded	17|9 18|9 19|9		
12	09-14 Sep	6	6	Tool maker's microscope and Autocollimator. Measurement of Screw thread and Gear tooth.		Mechanical Measurement & Control By Dr. D.S. Kumar	Own PPT and Videos downloaded			
13	16-21 Sep			Internal practical and Final submission						
14	23-27 Sep			Sessional II						

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CCOEW/ME/ 20-21

Date: 5/08/2020

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Prasanna Mahankar

Subject: ~~Heat Transfer~~ Energy Conversion II

SEM: VII (2020-21)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10 - 14 Aug 20	5	III	Internal Combustion Engines: Introduction, classification, components of I.C.Engines, working of four stroke S.I.	ME7ECII7W1D100820L01	EC2_ICE_1	EC2_ICE_V1		IC Engine by V. Ganesan, Ch. 1, Pages 1-42, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	10/8/20		
				working of two stroke and four stroke C.I. Engines,	ME7ECII7W1D110820L02	EC2_ICE_1	EC2_4San2S_V2				11/8/20		
				valve and port timing diagram. Advantages and disadvantages, applications.	ME7ECII7W1D120820L03	EC2_ICE_1	EC2_VT_V3				12/8/20		
				Combustion in S. I. Engine, stages of combustion, ignition lag, detonation.	ME7ECII7W1D130820L04	EC2_ICE_1	EC2__Comb_V4	https://vcal-iitk.vlabs.ac.in/list.html			13/8/20		
				Combustion in C. I. Engine, stages of combustion, delay period, diesel knock, abnormal combustion in S.I. and C.I. engines, detonation and knocking	ME7ECII7W1D140820L05	EC2_ICE_1	EC2__COMB_V5				14/8/20		
2	17- 21 Aug 20	5	III & IV	Fuel supply to S. I. Engine, carburetion, simple carburetor, components, operation	ME7ECII7W2D170820L06	EC2_ICE_1	EC2_Fuel_V6		IC Engine by V. Ganesan, Ch. 7 and 11, Pages 189-238, 323-355, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	17/8/20		
				MPFI. Fuel supply to C. I. Engine,	ME7ECII7W2D180820L07	EC2_ICE_1	EC2_MPFI_V7				18/8/20		
				air injection system, solid injection, fuel pump & fuel injector.	ME7ECII7W2D190820L08	EC2_ICE_1	EC2_Inject_V8				19/8/20		
				Unit 4 Testing of I. C. Engines:- Performance parameters, measurement of indicated, friction & brake power, measurement of speed, fuel & air consumption,	ME7ECII7W2D200820L09	EC2_ICE_2					20/8/20		
				calculation of indicated & brake thermal efficiency, volumetric efficiency, relative efficiency and mechanical efficiency, percentage of excess air.	ME7ECII7W2D210820L10	EC2_ICE_2					21/8/20		
				Numerical	ME7ECII7W3D240820L11	EC2_ICE_2					24/8/20		
				Heat balance sheet, exhaust gas calorimeter, exhaust analysis.	ME7ECII7W3D250820L12	EC2_ICE_2					25/8/20		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no, edition. No	Link for quiz or poll	Completion Date	Assignment/Tutorial Date	HOD's sign
3	24 - 29 Aug 20	5	I & II	Numerical	ME7ECII7W3D260820L13	EC2_ICE_2			IC Engine by V. Ganesan, Ch. 8 & 9, Pages 241-287. Ch. 15, Pages 457-571, 4th Edition	https://forms.gle/hPhugk11XaoLUJXm6	25/8/20		
				Numerical	ME7ECII7W3D270820L14	EC2_ICE_2					26/8/20		
				performance characteristics, factors influencing the performance of I.C. engines, performance analysis of single and multi cylinder I. C. engines	ME7ECII7W3D280820L15	EC2_ICE_2					27/8/20		
4	31 Aug - 5 Sept. 20	5	I	performance analysis of single and multi cylinder I. C. engines	ME7ECII7W4D310820L16	EC2_ICE_2			Thermal Engineering, R. K. Rajput Pages 676-717, 9th Edition	https://forms.gle/hPhugk11XaoLUJXm6	28/8/20		
				Numerical	ME7ECII7W4D020920L17	EC2_ICE_2					29/8/20		
				Numerical	ME7ECII7W4D030920L18	EC2_ICE_2					31/8/20		
				Air Compressors:- Introduction, classification, applications. Positive displacement Compressors:- Reciprocating compressors: - Construction and working, isothermal, polytropic & adiabatic compression process,	ME7ECII7W4D040920L19	EC2_Compressor_1	EC2_Compressor_V9				1/9/20		
				Reciprocating Air Compessor : Work done with and without clearance, P-V diagram, volumetric efficiency,	ME7ECII7W4D050920L20	EC2_Compressor_1	EC2_Compressor_V10				2/9/20		
5	7 -12 Sept. 20	6	II	effect of clearance, isothermal efficiency,	ME7ECII7W5D070920L21	EC2_Compressor_1			Thermal Engineering, R. K. Rajput Pages 676-717,9th Edition	https://forms.gle/hPhugk11XaoLUJXm6	3/9/20		
				Numerical	ME7ECII7W5D080920L22	EC2_Compressor_1					4/9/20		
				methods for improving isothermal efficiency, volumetric efficiency, mechanical efficiency,	ME7ECII7W5D090920L23	EC2_Compressor_1					5/9/20		
				Numerical	ME7ECII7W5D100920L24	EC2_Compressor_1					7/9/20		
				Multistage compression, intercooling, condition for minimum work input	ME7ECII7W5D110920L25	EC2_Compressor_1	EC2_Compressor_V10				8/9/20		
				Numerical	ME7ECII7W5D120920L26	EC2_Compressor_1					9/9/20		
				Numerical	ME7ECII7W6D140920L27	EC2_Compressor_1							

Faculty in Charge

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Maharshi Karve Stree Shikshan Samstha's

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CCOEW/AS / 18-19

Date: 09/12/2019

LESSON & TEACHING PLAN [redacted]

Department of Mechanical Engineering

Faculty Name: Prof. SUSHIL R. LANJEWAR				Subject: Automation In Production			Year : 2019-20		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	4- 6 Dec			RTMNU Exaternal Practical Examination						
2	9 - 14 Dec			Skill development Peogram						
3	16- 21 Dec	4	1	Definition, types, reasons, strategies for automating, arguments for and against automation. Organization and information processing in manufacturing	Group/ Each of students make search papers for New Trends in Automation & Make some charts	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 6-21, 401-411.	PPT, Videos	18/12		
4	23-28 Dec	4	1	Automated Flow Lines- Methods of work part transport, Buffer storage Analysis of flow lines -General terminology and analysis, analysis of transfer lines without storage	making some small models for work part transport	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 448-460		28/12		
5	30 Dec - 4 Jan	4	1	partial automation, manual assembly lines. Line Balancing Problem, Methods of line balancing. (Largest Candidate Rule & RPW) (L.C.R., RPW only)		Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 448-460, 142-181, 188-212		30/12		
6	6 - 11 Jan	4	2	Numerical Control Production Systems -Basic concepts, coordinate system and machine motion. Types of NC systems -Point to point, straight cut and continuous path.	Making some mdels & posters for NC & CNC	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 142-181, 188-212	PPT Videos	07/01	06/01	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	13-18 Jan	4	2	Machine control unit and other components, part programming and tape formats, method of part programming, Introductionof manual part programming (NC words) Numericals on Lathe & Milling	Hadns on Practice on MPP	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover, Pg. No. 142-181, 188-212 CNC Machines By. P.N. Pabla Pg. No. 55-70	Working on MTAB MCU	31/01	26/01	
8	20-25 Jan			**Anannya Cultural Festival & Alumne meet**						
9	27 Jan -1 Feb	4	2	APT programming in details, Directed numerical control. Computer numerical control. Adaptive control. Applications of NC.	Hadns on Practice on APT using CAM module software	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover,Pg. No. 188-212 CNC Machines By. P.N. Pabla Pg. No. 55-70		1/02		
10	3 - 8 Feb	4	3	Industrial Robotics -Introduction, robot anatomy, accuracy and repeatability and other specifications, end effectors, sensors, introduction to robot programming, safety monitoring.	with the help Arduino use of Sensors	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 214-247	IIT lecturs, Videos	30/01		
11	10 - 15 Feb			**Sessinal - I**						
12	17-22 Feb	4	3	Robotapplications -Characteristics of robot applications, work cell layout, robot applications in materialhandling, processing, assembly and inspection.		Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 214-247	IIT lecturs, Videos	26/02		
13	24 - 29 Feb	4	4	Automated material handling & storage: Automated Guided Vehicle Systems -Types: Driverlesstrains, AGVS pallet trucks, AGVS unit-load carriers. Vehicle guidance & routing, Traffic control &safety, System management, Analysis of AGVS systems, AGVS applications.	with the help of final year projects students will do different programmings for AGVs	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 214-247, 274-	IIT lecturs, Videos, PPT	29/02		
14	2 - 7 Mar	4	4	Automated Storage & Retrieval System Types: Unit load AS/RS, mini load AS/RS, man on board AS/RS, automated item retrieval system, deep lane AS/RS - Basic components & special features of AS/RS. Carousel storage systems, work in process quantitative analysis.	Industrial Visit	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 276-305		07/03		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
15	9 - 14 Mar	4	5	Automated inspection & Group technology: Automated inspection principles & methods -100% automated inspection, off-line & on -line inspection, distributed inspection & final inspection; Sensor technologies to; automated inspection, coordinate. measuring Machine Construction, operation &	Industrial Visit	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No.314-329	IIT lecturs, Videos, PPT	14/03		
16	16-21 Mar	4	5	Machine vision image acquisition & digitization, image processing & analysis, interpretation, machine vision applications, Group Technology: Part families, parts classification & coding, Opitz classification systems production. Flow analysis; Machine cell design -composite pat concept, types of cell design, best machine arrangement, benefits of group technology.	at wokshop students will separate the different tools / work pieses to understand the Part familty	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 507-530, 540-560	IIT lecturs, Videos, PPT	21/03		
17	23- 31 Mar	6	6	Computer aided manufacturing - Manufacturing planning, manufacturing control; Computer integrated manufacturing FMS - Components, Types of systems, FMS layout configuration computer functions, data files, system reports, FMS benefits Retrieval CAPP systems, generative CAPP systems, benefits of CAPP.	Group of students will make mini model FMS system	Automation, Production systems, & Computer Integreted Manufacturing By. M. P. Groover Pg. No. 540-560, 720-732, 749	IIT lecturs, Videos, PPT	31/03		
18	1 - 8 April			Sessinal - II						

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Academic Coordinator

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Maharashi Karve Stree Shikshan Samstha's

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CCOEW/MECH/ 19-20

Date: 26 / 6 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh Khekale						Subject: DMD		SEM -ODD (2019-20)			Sem:-VII	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	24 June - 29 June	5	1	Coupling: Types of shaft coupling, design of flange coupling, flexible bush coupling.	Discussion with models and couplings at workshop	Machine Design By Khurmi Gupta , V.B Bhandari (330 - 370)	https://www.youtube.com/watch?v=kJl08Pk-xl4	26/6/19 10/7/19				
2	1 July- 6 July	5	1	Flywheel: Functions, Coefficient of fluctuation of energy and Coefficient of fluctuation of speed, energy store in flywheel, stresses in flywheel, design of flywheel.	Discussion with flywheel at workshop	Machine Design By Khurmi Gupta , V.B Bhandari (750-760)	https://www.slideshare.net/VikasDeulgaonkar/flywheelppt https://www.youtube.com/watch?v=xngqym8XZiY https://www.slideshare.net/VikasDeulgaonkar/flywheelppt	23/9/19				
3	8 - 12 July	4	1	Design of Bearings: Lubrication, Types of Lubrication, oil seals, design of hydrodynamic journal bearings for radial loads	Discussion with models	Machine Design By Khurmi Gupta , V.B Bhandari (564-640)	https://www.youtube.com/watch?v=dEn2Qvh_qjc https://www.youtube.com/watch?v=Mybf-XCA4H4	15/7/19 20/7/19				
4	15 July - 20 July	5	1	Selection of ball and roller bearing for radial and thrust loads. Failures of antifriction bearing, bearing housing	Discussion with models	Machine Design By Khurmi Gupta , V.B Bhandari (564-640)	https://www.youtube.com/watch?v=xhtq8xqBXwE	22/7/19				
5	22 July- 26 July	4	2	Design of Flat belt drive: Types of belts & belt material, analysis of belt tension, condition for transmitting maximum power, design of flat belt, flat belt pulley.		Machine Design By Khurmi Gupta , V.B Bhandari	PPT and https://www.youtube.com/watch?v=tPtlwiiSamI https://www.youtube.com/watch?v=cfAK1bbdtn8	29/7/19	27/7/19	29/7/19		

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Date: 26 / 6 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh Khekale						Subject: DMD		SEM -ODD (2019-20)			Sem:-VII	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
6	29 July-3 Aug.	4	2	Design of V belt drive: Types of V-belt, analysis of V-belt tension, design of V belt & pulley.	Design of belts for lathe machines	Machine Design By Khurmi Gupta , V.B	https://www.youtube.com/watch?v=nMsB6Soz4Hc	14/8/19				
8	30 July-03 Aug			**Sessional - I**								
	5 August - 9 Aug	5	2	Design of Roller chain drive: Velocity ratio and length of chain, design of chain, dimensions of tooth profile, design of sprocket.	WORK SHOP (MOTOR BIKE)	Machine Design By Khurmi Gupta , V.B Bhandari	https://www.youtube.com/watch?v=uNDGWuxbTnE	17/8/19				
9	13 Aug - 18 Aug	3	2	Design of wire rope drive: Introduction to wire rope, stresses in hoisting wire rope. Design of wire rope, sheave and drum.		Machine Design By Khurmi Gupta , V.B Bhandari	https://www.youtube.com/watch?v=eEZb2y3WX_o https://www.youtube.com/watch?v=eDVf71xd2cQ	22/8/19				
9	19Aug -23 Aug	3	3	Review of kinematics of gears & terminology	Discussion with gears at class room	Machine Design By Khurmi Gupta , V.B Bhandari	https://www.youtube.com/watch?v=P4rNX0gCm3E&t=225s					
				Interference, tooth profiles			https://www.youtube.com/watch?v=BIE8_lxM2pA	26/8/19				
				Formative number of teeth								
10	26 Aug-31 Aug.	3	3	Design of Spur Gear drive	Student activity for spur gear at work shop	Machine Design By Khurmi Gupta , V.B Bhandari	https://www.youtube.com/watch?v=8bml2pK6Ra0	7/9/19				
				Design of Helical Gear drive	Student activity for Helical gear at workshop			13/9/19				
11	3 Sept - 7 Sept	4	3	Types of bevel gear	Workshop	Machine Design By Khurmi Gupta , V.B						
				Design of bevel gear	Workshop			19/9/19				
				Proportions of bevel gear, force analysis of bevel								

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CCOEW/MECH/ 19-20

Date: 26 / 6 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Dr. Shailesh Khekale						Subject: DMD		SEM -ODD (2019-20)			Sem:-VII	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
				Gear drive, design of bevel gear drive.	Student activity for bevel gear at workshop	Bhandari						
12	9 Sept- 13 Sept	4	4	Worm Gearing—AGMA Equation	Student activity for Worm gear at workshop	Machine Design By Khurmi Gupta , V.B Bhandari						
				Worm-Gear force analysis								
				Designing a Worm-Gear Mesh								
13	16 Sept- 21 Sept	5	4	Buckingham Wear Load	Discussion of IC engine at Workshop	Machine Design By Khurmi Gupta , V.B Bhandari						
				Introduction to selection of material for I. C. engine components								
				Design of cylinder and cylinder head								
				Design of piston and piston-pins,								
				Design of piston rings								
17/09/2017 to 21/09/2017				**Internal Pracctical / Final Submission**								
25/09/2017 to 29/09/2017				**Pre- Universitty Test**								

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Academic year

2018-19

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CCOEW/ETC / 18-19

Date: 10/12/2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof.Yogesh V. Dandekar | Subject: MoM | SEM TV (2018-19) | Sem:- 4

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
	1		1	Types of stresses, strains and stress-strain diagram for brittle & ductile material, elastic limit, Hook's law, modulus of elasticty, rigidity & bulk modulus. FoS, analysis of tapered rod, Composite section, Thermal stress and starin,	Trial on UTM by different groups for tensile & bending test.	R.K. Bansal. Ch. 01 & 02. Page 1 to 84. R.K. Rajput Ch .01. Page. 1 to 90.	E-books videos.	15/12/18 17/12/18 19/12/18		
	2		1	Longitudinal strss &strain, lateral stress & strain, Poisson's ratio, Volumatric stress & strain, uni-axial, bi-axial & tri-axial loading.		R.K. Bansal Ch. 02. Page 59-84	NPTEL videos.	24/12/18 27/12/18	30/12/18	
	3		2	SFD & BMD diagrams for different types of beams & loading conditions. Relation between load, SF & BM.		R.K. Bansal ch. 06. Page 237-294		05/01/19		
	4		2	Theory of pure bending, expression for bending stresses, derivation of bending equation. Section modulus. Shear stresses in beams, concept & derivation of shear stress distribution formula, shear stress distribution diagram for common symetrical sections. Max & avg shear stress		R.K. Bansal. Ch. 07. Page 295-344. R.K. Rajput Ch .04. Page. 206-260. Ch. 05 / Page 261-329.		10/01/19 24/01/19 14/02/19	15/01/19	
	5		3	deflection & slope of diffrenet types of beams at different loading conditions. Macaulay;s method.						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	ity/ Teaching Aid	Refrence Book - Chapter no. Page no,editio.	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
6	23 July-27 July			Martempering, Austempering, Hardening, Retained austenite, its effect & elimination.,Maraging, Patenting, surface hardening like carburising, Nitriding, induction hardening, flame hardening,	Performing Hardening heta treatment on SAE 1050 steel	Material science and metallurgy for engineers by KODGIRE, Chp.11&12, Page 455 to 510 and Introduction to physical metallurgy by AVNER, Chp.11&12, Page423 to 546	videos, ppt	03/08 13/08	13/08	
7	30 July-4 Aug			Jominy end quench test for hardenability, Plain carbon steels, classification based on carbon % and applications, limitations, Effect of impurities, alloy steel, effect of various alloying elements.		Material science and metallurgy for engineers by KODGIRE, Chp.3, Page 61 to 144		24/08		
8						Sessional -I				
9	13 Aug-18 Aug			Tool steels, its classification, composition & applicationsred hardness, Stainless steel, its classification, composition & applications, Hadfield managnese steel, maraging steel, OHNS steel, selection of steel for various purpose	Discuss various tool steels in class, show tools to the students, discuss on their properties & applications	Material science and metallurgy for engineers by KODGIRE, Chp.14, Page 531 to 560,		18/08		
10	20 Aug-24 Aug			Cast iron, types, white C.I., Grey C.I., Malleable, Nodular, mottled CI, Meehanite alloy,		Introduction to physical metallurgy by AVNER, Chp.16, Page 605 to 632 ,Material science and metallurgy for engineers by KODGIRE, Chp.10, Page 417 to 454 and Introduction to physical metallurgy by AVNER, Chp.9&10, Page 349 to 422		31/08	31/08	
11	27 Aug-31 Aug			Bronzes, allumunium alloy, brasses & its types		Material science and metallurgy for engineers by KODGIRE, Chp.12, Page 483 to 510,	ppt	08/09		
12	3 Sep- 8 Sep			principle of hardness measurement, rockwell tets, vickers test, brinell test for hardness. Introduction to non destructive testing		Material science and metallurgy for engineers by KODGIRE, Chp.3, Page 61 to 144		15/09	12/09	
13	10 Sep-15 Sep			Ultrasound, die-penetration test. Radigraphy test, Powder metallurgy--introduction, metal powder & its production, Blending & mixing, Compaction & Sintering, Hot isostatic pressing, secondary processes,		Material science and metallurgy for engineers by KODGIRE, Chp.3, Page 61 to 144	pdf files, ppt, video			
14	17 Sep-21 Sep			Advantages & limitations& application of PM, few products like self lubricated bearing, gears & pump rotors, PM products like electric contacts & electrodes, Magnets, diomand impregnated tools		Material science and metallurgy for engineers by KODGIRE, Chp.14, Page 531 to 560, Chp.14, Page 531 to 560	video			
15						Sessional II				

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Lab Practicals Plan Sem. IV

Date: 20 /12 /18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Abhijit S. Getme		Subject: Hydraulic Machines		for	Department: Mechanical Engineering			
			Batch A2			Batch A1			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	To determine the metacentric height of given floating vessel.		24/12/2018	[illegible]	[illegible]	1/1/2019	834/12/19	07/01/19	
2	To verify Bernoulli's theorem.		31/12/2018	[illegible]	14/01/19	8/1/2019	07/01/19	14/01/19	
3	Demostration on pitot tube		07/01/19	24/01/19	04/02/19	22/01/2019	08/01/19	22/01/19	
4	Performance characteristic on centrifugal pump		14/01/2019	11/02/19		29/01/2019	05/02/19	12/02/19	
5	Performance characteristic of Reciprocating pump		21/01/2019			5/2/2019			
6	Performance on submerged bodies		28/01/2019	14/01/19	04/02/19	12/2/2019	14/01/19	22/01/19	
7	Performance on farnsis turbine		4/2/2019	11/02/19	25/02/19	26/02/2019	26/03/19	05/03/19	

Faculty in charge

HoD

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8	Performance on kaplan turbine		11/2/2019	11/02/19	25/02/19	5/3/2019	14/01/19	26/03/19	
9	Performance on pelton wheel turbine		25/02/2019	11/03/19	11/03/19	12/1/2019	12/01/19	26/03/19	
10	Performance characteristic of Axial Flow Pump		11/3/2019	11/03/19	11/03/19	26/03/2019	26/03/19	26/03/19	

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/ Department of CE/ME/ETC./ 2018-19
Date: 4 /12 /2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande | **Subject: Functional English** | **Year (2018-19)** | **Sem:-VI**

WEEK No.	Week	No.Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no, Page no	Completion Date	Assignment Date	HOD's remark	Principal
1	24 - 29 Dec.	2	2	*English for Competitive Exams and interview Technique* : IPA,Word Building,Synonyms,Antonyms,Analogies	Quick Learning objectiveGeneral English, Functional Eng.For Tech.Stu. Himalaya Pub.(pg no. 57-86)	26/12			
2	31 -5 Jan	2	1 &2	Give One word for, Phrases, Idioms and Proverbs	Quick Learning objectiveGeneral English,Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.41-47,93-103)	1/1			
3	7-11 Jan	2	1	*Functional Grammar* : Active Passive, Narration	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.2-26)	12/1			
4	14-19 Jan	2	1	Functional Grammar : Common Errors	Quick Learning objectiveGeneral English,Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.11-18)	21/1	14/Jan Assign. I		
5	21-25 Jan	2	1	Functional Grammar: Transformation of Sentences	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.108-110,113-129)	21/1			
6	28-2 Feb	Anannya 2019							
7	5Feb-8 Feb	2	3	Formal Correspondence (A): Business Letters(Copmplaint,Notices,Circulars,Memos)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.132-139)	6/2			
8	11-16 Feb	2	3	Formal Correspondence (A): Business Letters(Copmplaint,Notices,Circulars,Memos)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.111-112)	14/2			

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9	18-22 Feb	Sessional I (18 Feb- 22 Feb2019)							
11	25-2 March	2	4	Writing Resume, Interview Technique,E-mail etiquettes	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.pg no.111-112,145-178)				
12	4-9 March	2	4	Formal Correspondence (B): Technical Report writing					
13	11-16 March	2	4	Analytical comprehension: (fictional ,non-fictional unseen text)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.180-207)				
14	18-23 March	2	4	Features of Technical and Scientific writing:					
	26-30 March	Sessional 2							

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CCOEW/MECH / 18-19

Date: 10/12/2018

LESSON & TEACHING PLAN

DEPARTMENT OF MECHANICAL ENGG.

Faculty Name: Prof. Vikram Dandekar		Subject: CSE	6th SEM (2018-19)	Sem:- EVEN

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10-15 Dec	5	1	Control System controls: Study of Control System components such as hydraulic actuators, Servomechanism D.C. and A.C. motor, liquid level control, Automobile Power Steering Control, Speed Control, Position control of Robotic Manipulator etc.	MAT-Lab equipment testing	Feed back Control System by R.A.Barapatre pg.CSC-1 to CSC-20	NPTEL Videos	14/12/18 15/12/18 17/12/18		
2	17-21 Dec	6	1	Study and Analysis of performance characteristics, the concept of various types of system like machine tools, Prime movers, system generators, etc.	MAT-Lab equipment testing	Feed back Control System by R.A.Barapatre pg.CSC-1 to CSC-21	NPTEL Videos	24/12/18 26/12/18 27/12/18 28/12/18	Ass. 1.	
3	24-29 Dec	6	1	Modeling of Mechanical System: Basic Elements of Control System – Open loop and Closed loop systems – Differential equation – Laplace Transform –Transfer function, Modeling of physical system like Translational, rotational mechanical systems,	MAT-Lab equipment testing	Feed back Control System by R.A.Barapatre pg.ICS-1 to ICS-15	NPTEL Videos	31/12/18 2/1/19 3/1/19		

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Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no, Page no,edition, No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's Sign
4	31 Dec - 5Jan	5	2	Electric systems, Electronic system and Electro-mechanical system. Concept of transfer function & its determination for physical systems.	MAT-Lab equipment testing	Feed back Control System by R.A.Barapatre pg ICS-1 to ICS-16	NPTEL Videos	4|1|19 5|1|19 7|1|19		
5	7-11 Jan	6	2	Transfer Function system Representation through Block Diagram and Signal Flow Graph: Block Diagram representation.	MAT-Lab equipment testing	Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-112	NPTEL Videos	9|1|19 10|1|19 14|1|19		
6	28- Jan 2- feb		ANNANYA CULTURAL FESTIVAL AND ALUMNIE MEET							
7	Jan 14-19	6	2	, Reduction Techniques for single and multiple input/output, Conversion of Block Diagram into Signal Flow Graph,		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-112	NPTEL Videos	16|1|19 17|1|19 18|1|19		
8	21 Jan- 25 Jan -1 Feb	5	3	Conversion of algebraic equation into Block Diagram and Signal Flow Graph. Transfer function through Block Diagram Simplification using Masons Gain Formula.		Feed back Control System by R.A.Barapatre pg DMR-1 to DBA-113	NPTEL Videos	21|1|19 22|1|19 23|1|19 24|1|19	Assi 2	
9	29 Jan -2 Feb	6	3	System response & Time Domain Response Analysis: First and second order systems response to impulse, ramp and sinusoidal inputs, properties of unit step response of second order system,systems with velocity lag, Steady		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-113	NPTEL Videos	25|1|19 5|2|19 6|2|19 7|2|19		
10	4 -8 Feb	5	3	Signals: Step, Ramp, Impulse, Parabolic and Periodic signals with their mathematical representation and characteristics.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-114	NPTEL Videos	8|2|19 13|2|19 14|2|19		

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Lecture No.	Week	No. of Lect.	Unit No.	Lesson Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book - Chapter no. Page no.edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's Sign
11	11 -16 Feb	6	3	Mode of Controls: Basic control actions and industrial controllers, Introduction to P, PI and PID controllers their characteristics, representation and applications. Classification of industrial automatic controllers, control actions, proportional controllers, obtaining derivative and integral control action, effects of integral and derivative control action on system performance.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-115	NPTEL Videos	16|2|19 2|3|19	Assi.2	
12	18 -22 Feb	5		SESSIONAL-1						
13	25 Feb -2 Mar	6	4	Controller Mechanisms: Pneumatic, hydraulic and electric controllers, general principles for generating various control actions. **UNIT 4: Control system analysis:** Concept and types of stability, Routh-Hurwitz Criterion and its application for determination of stability, limitations. Root locus plot: Simple transfer functions transient response from root locus. Concept of stability, necessary condition for stability, Root locus concept, construction of Root loci.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-116	NPTEL Videos	2|3|19 5|3|19 6|3|19		
14	4 -8 Mar	5	4&5	Frequency Domain analysis - Correlation between time and frequency responses of a second order System. **Unit.5** Bode & Polar plot: Determination of Gain Margin, Phase Margin and their Stability from Bode and Polar plots.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-117	NPTEL Videos	8|3|19 9|3|19		

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Week No.	Week	No. of Lect.	Lect. No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Reference Book : Chapter no. Page no.edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
15	11 -16 Mar	6	5&6	Inverse Bode Plot, Transportation lag, System identification from Bode plot.**UNIT 6: State space representation of Continuous Time systems:** State equations, Transfer function from State Variable Representation –		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-118	NPTEL Videos	11|3|19 13|3|19	Assi.3	
16	18 -23 Mar	5	6	Solutions of the state equations, Concepts of Controllability and Observability, State space representation for Discrete time systems.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-119	NPTEL Videos	18|3|19 19|3|19		
17	25-30 Mar	6	6	Stability criterion: Introduction to control system design lag lead compensation, Feed Back Compensation and Pole -Zero placement.		Feed back Control System by R.A.Barapatre pg.DMR-1 to DBA-120	NPTEL Videos	22|3|19		
18	1-8 April	6		**Sessional II**						

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CCOEW/MECH / 18-19

Date: 10/12/2018

LESSON & TEACHING PLAN

DEPARTMENT OF MECHANICAL ENGG.

Faculty Name: Prof. Vikram Dandekar						Subject: AMT		8th SEM (2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10-15 Dec	5	1	Non Traditional Machining process: Need, classification & historical development.	w/s demostration & Discussion on History	Production Technology- R.K.Jain. Ch. 10. pg.342. ch.20. pg.625-633	Videos of machining	15|12|18 17|12|18 24|12|18 26|12|18		
2	17-21 Dec	6	1	Economics & application of Non-Traditional process for machining. High speed grinding. Hot & Cold machining.	w/s demostration & information on various m/cs	Production Technology- R.K.Jain. Ch. 10. pg.342. ch.20. pg.625-633	NPTEL Lect.	27|12|18 28|12|18 29|12|18		
3	24-29 Dec	6	2	Abrasive Jet Machining, Mechanics of AJM-process parameters & Machining parameters.Ultrasonic Machining process, mechanics, process parameters & control, effect of USM on materials.	w/s demostration	Production Technology- R.K.Jain. Ch. 10. pg.365-367.	video of abrasive machining	1|1|19 3|1|19 4|1|19	Assi-1.	
4	31 Dec - 5Jan	5	2	Water Jet Machining.	w/s demostration	Notes by Vikram Dandekar	video	7|1|19 8|1|19		
5	7-11 Jan	6	2	Electro-Chemical Machining: Electrochemistry of ECM. Electrochemical Grinding.	w/s demostration	Production Technology- R.K.Jain. Ch. 10. pg.365-367.	video	10|1|19 11|1|19 14|1|19		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
6	~~at 19 Jan~~ 21 Jan - 2 Feb	5	ANNANYA CULTURAL FESTIVAL AND ALUMNIE MEET							
7	21-25 Jan	6	3	Electric Discharge Machining. Electron Beam Machining.	Discussion on EDM	Production Technology- R.K.Jain. Ch. 10. pg.360,378.	NPTEL Lect.	16|1|19 19|1|19 21|1|19		
8	28 Jan -2 Feb	6	3	Laser Beam and Plasma Arc Machining.	Discussion on LBM and PAM	Production Technology- R.K.Jain. Ch. 6. pg.214-251.	Video	22|1|19 23|1|19 25|1|19		
9	29 Jan -2 Feb	6	4	Unconventional welding techniques such as Inert Gas (MIG & TIG), Electric resistance welding,Oxyacetylene pressure welding, Laser Beam welding.	w/s demostration	Production Technology- R.K.Jain. Ch. 9. pg.273-341.	NPTEL Lect.	5|2|19 6|2|19 7|2|19 8|2|19	Assi. 2	
10	4 -8 Feb	5	4	Electron Beam welding, Plasma Arc welding, Atomic Hydrogen welding & Submerged Arc welding, Friction welding.	Discussion on welding techniques	Production Technology- R.K.Jain. Ch. 9. pg.273-341.	video	11|2|19 12|2|19 13|2|19		
11	11 -16 Feb	6	5	Stud welding.Solid Phase welding techniques such as Ultrasonic welding,Friction welding.	Discussion on welding techniques	Production Technology- R.K.Jain. Ch. 9. pg.273-341.	video	14|2|19 15|2|19		
12	18 -22 Feb	5		SESSIONAL-1						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	25 Feb -2 Mar	6		INDUSTRIAL VISIT TOUR						
14	4 -8 Mar	5	5	Friction welding with recent development in Welding, Economics and application of Non-Traditional processes for welding.		Production Technology- R.K.Jain. Ch. 9. pg.273-341.	Video	5|3|19 6|3|19 7|3|19		
15	11 -16 Mar	6	6	Advance casting process: Metal mould casting, continuous casting, squeeze casting .	w/s casting processes identification.	Notes by Vikram Dandekar	Video	8|3|19 11|3|19 12|3|19	Assi 3	
16	18 -23 Mar	5	6	Vacuum mould casting, evaporative pattern casting, ceramic shell casting.	w/s casting processes identification.	Notes by Vikram Dandekar	Video	13|3|19 14|3|19 15|3|19		
17	25-30 Mar	6	6	centrifugal casting, slush casting.	w/s casting processes identification.	Notes by Vikram Dandekar	Video	18|3|19 19|3|19 20|3|19		
18	1-8 April	6		Sessional II						

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Lab Practicals Plan Sem. VIII

Date: 20 /12 /18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Abhijit S. Getme | **Subject: Energy Conversion III** | **for** | **Department: Mechanical Engineering**

			Batch A2			Batch A1			
Pi	**Name of experiment**		**Planned Date**	**Perform Date**	**No. of Viva done**	**Planned Date**	**Perform Date**	**No. of Viva done**	**HoD's Remark**
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Study of gas turbine and jet propulsion system.		24/12/2018	24/12/18	31/12/18	20/12/2018	20/12/18	03/01/19	
2	Study of current energy scenario and various techniques of saving energy		31/12/2018	31/12/18	08/01/19	27/12/2018	03/01/19	10/01/19	
3	Study & demonstration of solar lightning system.		07/01/19	08/01/19	14/01/19	3/1/2019	10/01/19	24/01/19	
4	Case study on energy conservation opportunities in industry.		14/01/2019	14/01/19	21/01/19	10/1/2019	24/01/19	07/02/19	
5	Study of various hydraulic pumps.		21/01/2019	21/01/19	04/02/19	24/01/2019	07/02/19	14/02/19	

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HoD

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6	Study of various valves, actuators used in hydraulic system.		28/01/2019	04/02/19	04/02/19	31/01/2019	14/02/19	07/03/19	
7	Study of various industrial hydraulic circuits.		4/2/2019	04/02/19	11/02/19	7/2/2019	14/02/19	07/03/19	
8	Study of various compressors used in pneumatic system.		11/2/2019	11/02/19	25/02/19	14/02/2019	07/03/19	07/03/19	
9	Study of air preparatory unit.		25/02/2019	25/02/19	11/03/19	7/3/2019	14/03/19	28/03/19	
10	Study of various industrial pneumatic circuits.		11/3/2019	11/03/19	18/03/19	14/03/2019	14/03/19	28/03/19	

Faculty in charge AS Gedam

HoD

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CCOEW/AS / 18-19

Date: 20/12/2018

LESSON & TEACHING PLAN for Energy Conversion III

Department of Mechanical Engineering

Faculty Name: Prof. Abhijit S. Getme | Year : 2018-19 | Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10 -15 Dec		Unit I	RTMNU Exaternal Practical Examination						
2	17 - 22 Dec	2	Unit I	Gas Turbines:-Ideal cycles, isentropic and small stage efficiency,	Demonstration on hydraulic turbine	Gas Turbine& Jet Propulsion, Dubey & Khajuriya, Chapter 3 and 4, Pages 74-187	PPT / Video	22/12/18		
3	24-29 Dec	4	Unit I	application of gas turbine pressure losses, effect of intercooling, reheat & regeneration, Fuel-air ratio, combustion efficiency, performance calculation,	Demonstration on hydraulic turbine	Gas Turbine& Jet Propulsion, Dubey & Khajuriya, Chapter 3 and 4, Pages 74-187	PPT / Video	02/01/19		
4	31 Dec - 1 Jan 19	4	Unit I	open cycle &closed cycle gas turbine plants cogenerations & combined power cycles	Demonstration on hydraulic turbine	Gas Turbine& Jet Propulsion, Dubey & Khajuriya, Chapter 3 and 4, Pages 74-187	PPT / Video	04/01/19	04-01/19	
5	7-12 Jan	4	Unit II	Principles & working of turbojet, tuboprop, Ramjet & pulse jet, simple turbojet cycle, thrust power, propulsive power.	Visit at Dharampeth Science college for science fair	Gas Turbine& Jet Propulsion, Dubey & Khajuriya, Chapter 12 and 13, Pages 459-508	PPT / Video	16/01/19		

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HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
6	14-19 Jan	1	Unit II	Thermal efficiency, propulsive efficiency, overall efficiency. Nuclear Power Plant: Introduction, nuclear reactor, classification, general components, operation,	Visit to Dharampeth Science college for Science fair	Gas Turbine& Jet Propulsion, Dubey & Khajuriya, Chapter 12 and 13, Pages 459-508	PPT / Video	25/01/19		
7	21-26 Jan	4	Unit II & Unit III	Unit II:- Problems of reactor operation, site selection, comparison of nuclear plants with thermal plants. Unit III:- Principle of solar energy collection, solar energy and sources of power generation,	Visit to Dharampeth Science college for Science fair	Gas Turbine& Jet Propulsion, Dubey & Khajuriya, Chapter 12 and 13, Pages 459-508	PPT / Video	26/01/19		
8	28 Jan -2 Feb	4	Unit III	solar constant, solar geometry, flat plate & concentrating collectors for water and air heating, solar energy storage, solar pond, Industry	Site visit	Solar Energy Fundamentals and Application , P Garg and Prakash, Chap. 4,5, 6, 7, 17 Non-Conventional Energy Storage, Rai G.D. Chap 6,12	PPT / Video	—		
9	4-9 Feb	4	Unit III	Application of solar energy for cooking, drying, solar photovoltaic system & its applications. Introduction to fuel cell. Working of wind generators & MHD generator	Site visit	Solar Energy Fundamentals and Application , P Garg and Prakash, Chap. 4,5, 6, 7, 17 Non-Conventional Energy Storage, Rai G.D. Chap 6,12	PPT / Video	04/02		
10	11-16 Feb	4	Unit IV	Energy Auditing: Introduction, global and Indian energy scenario, need of importance of energy conversion. importance of energy audit, uses of energy audit, basic terms of energy audit, types of energy audit, procedure for carrying energy audit,	Energy audit for Wing B	Non-Conventional Energy Storage, Rai G.D. Chap 16, 17 Pages 778-892	PPT / Video	16/02/19		
11	25 Feb - 2 Mar	4	Unit IV	instruments used for energy audit such as power analyzer, multipoint heat flow meter, Lux meter, portable infrared radiation thermometer, thermocouple based temperature indicator.	Energy audit for Wing B	Non-Conventional Energy Storage, Rai G.D. Chap 16, 17 Pages 778-892	PPT / Video	25/02/19		

Faculty in Charge AS Gulhane

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Ch... no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	4-9 Mar	4	Unit IV & Unit V	Unit IV :- Payback period, Return on Investment (ROI), life cycle costs, Sankey diagram, specific energy consumption. Unit V:- Hydraulic systems: Introduction, essential elements of a hydraulic system:	Energy audit for Wing B	Non-Conventional Energy Storage, Rai G.D. Chap 16, 17 Pages 778-892	PPT / Video	09/03/17		
13	11-16 Mar	4	Unit V	Flow actuators, directional control valves, pressure control valves, flow control valves,	Site and lab visit	Hydraulics and Pneumatic Systems, Andrew Parr	PPT / Video	16/03/17		
14	18-23 Mar	4	Unit V	Accumulators, basic hydraulic circuit, meter in & meter out circuits. Use of single, double actuator, crane, jacks. Grinding machine	Site and lab visit	Hydraulics and Pneumatic Systems, Andrew Parr	PPT / Video	18/03/17		
15	25-30 Mar	4	Unit VI	Pneumatic Systems : Principle of pneumatics, comparison with hydraulic power transmission.Air preparatory unit, pneumatic valve. Various Pneumatic circuits.	Site and lab visit	Hydraulics and Pneumatic Systems, Andrew Parr	PPT / Video	18/03/17		

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Lab Practicals Plan

CCOEW/Department of MECH / Even sem 18-19

ıent: Mechanical Engg. **Semster: VIII Sem**

Automation In Production **Faculty Name: S. R. Lanjewar**

i	Name of Experiment	Batch # 1				Batch # 2					
		Planned Date	Perform Date	No. Journals received	No. of Viva done	Planned Date	Perform Date	No. Journals received	No. of Viva done	H.O.D's Remark	Principal
nt	print	print	fill	fill	fill	print	fill	fill	fill	fill	
1	Study of Automation.	24-Dec-18	09/01			26-Dec-18	09/01				
2	Study of NC System.	7-Jan-19	21/01			9-Jan-19	23/01				
3	Performance, Simulation on CNC lathe (at least two complex geometries).	21-Jan-19	12/02			23-Jan-19	06/02				
4	Performance, Simulation on CNC milling (at least two complex geometries).	02-Feb-18	04/02			15-Feb-18	15/02				
5	Introduction and Programming on APT.	04-Mar-19	04/02			6-Feb-19	27/02				
6	Case Study on Automated System of any Industry.	25-Mar-19	25/02			27-Feb-19	06/03				
7	Study/Performance on Robot.	11-Mar-19	11/03			13-Mar-19	13/03				
8	Part Coding and Group Technology.	18-Mar-19	18/03			20-Mar-19	20/03				

Subject Teacher **HOD**

Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
Principal
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18-19 | Date: 07/12/2018

LESSON & TEACHING PLAN for Engineering Physics

Department of Mechanical Engineering

Name: Prof. SUSHIL R. LANJEWAR | Subject: Automation In Production | Year : 2018-19 | Sem : VIII

Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
Dec	1		**RTMNU Exaternal Practical Examination,** Cource outcomes						
22 Dec	4	1	Definition, types, reasons, strategies for automating, arguments for and against automation. Organization and information processing in manufacturing.	Group/ Each of students make search papers for New Trends in Automation & Make some charts	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 6-21, 401-411.	PPT, Videos	22/12		
Dec	4	1	Automated Flow Lines- Methods of work part transport, Buffer storage Analysis of flow lines -General terminology and analysis, analysis of transfer lines without storage	making some small models for work part transport	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 448-460		29/12		
c - 5 19	4	1	partial automation, manual assembly lines. Line Balancing Problem, Methods of line balancing (Largest Candidate Rule & RPW) (L.C.R., RPW only)		Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 448-460, 142-181, 188-212		5/01		
Jan	4	2	Numerical Control Production Systems -Basic concepts, coordinate system and machine motion Types of NC systems -Point to point, straight cut and continuous path.	Making some mdels & posters for NC & CNC	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 142-181, 188-212		12/01		
Jan	4	2	Machine control unit and other components, part programming and tape formats, method of part programming, Introductionof manual part programming (NC words) Numericals on Lathe & Milling.	Hadns on Practice on MPP	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover, Pg. No. 142-181, 188-212 CNC Machines By P.N. Pabla Pg. No. 55-70	Working on MTAB MCU	26/01		

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Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
26 Jan	4	2	APT programming in details, Directed numerical control. Computer numerical control. Adaptive control. Applications of NC	Hadns on Practice on APT using CAM module software	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover.Pg. No. 188-212 CNC Machines By. P.N. Pabla Pg. No. 55-70		26/01		
28 Jan -2 Feb	4	2	**Anannya Cultural Festival & Alumne meet**						
4-9 Feb	4	3	Industrial Robotics -Introduction, robot anatomy, accuracy and repeatability and other specifications, end effectors, sensors, introduction to robot programming, safety monitoring	with the help Arduino use of Sensors	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 214-247	IIT lecturs, Videos	09/02		
11 Feb	4	3	Robotapplications -Characteristics of robot applications, work cell layout, robot applications in materialhandling, processing, assembly and inspection.		Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 214-247	IIT lecturs, Videos	16/02		
13 Feb			**Sessinal - I**						
18 Feb - 2 Mar	4	4	Automated material handling & storage: Automated Guided Vehicle Systems -Types: Driverlesstrains, AGVS pallet trucks, AGVS unit-load carriers Vehicle guidance & routing, Traffic control &safety, System management, Analysis of AGVS systems, AGVS applications	with the help of final year projects students will do different programmings for AGVs	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 214-247, 274	IIT lecturs, Videos, PPT	2/03		
4-9 Mar	4	4	Automated Storage & Retrieval System Types: Unit load AS/RS, mini load AS/RS, man on board AS/RS, automated item retrieval system, deep lane AS/RS - Basic components & special features of AS/RS. Carousel storage systems, work in process quantitative analysis	Industrial Visit	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 276-305		09/03		
11 Mar	4	5	Automated inspection & Group technology Automated inspection principles & methods -100% automated inspection, off-line & on -line inspection, distributed inspection & final inspection, Sensor technologies to, automated inspection, coordinate measuring Machine Construction, operation & benefits,	Industrial Visit	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No.314-329	IIT lecturs, Videos, PPT	15/03		

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ek	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - pter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
Mar	4	5	Machine vision image acquisition & digitization, image processing & analysis, interpretation, machine vision applications; Group Technology: Part families, parts classification & coding, Opitz classification systems production Flow analysis; Machine cell design -composite pat concept, types of cell design, best machine arrangement, benefits of group technology.	at wokshop students will separate the different tools / work pieses to understand the Part familty	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 507-530, 540-560	IIT lecturs, Videos, PPT	23/03		
Mar	4	6	Computer aided manufacturing - Manufacturing planning, manufacturing control; Computer integrated manufacturing FMS - Components, Types of systems, FMS layout configuration computer functions, data files, system reports, FMS benefits Retrieval CAPP systems, generative CAPP systems, benefits of CAPP	Group of students will make mini model FMS system	Automation, Production systems, & Computer Integreted Manufacturing By M. P. Groover Pg. No. 540-560, 720-732, 749	IIT lecturs, Videos, PPT	30/03		
April			**Sessinal - II**						

Faculty In Charge

S.R. Lanjewar

HOD

Y. V. Dandekar

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CCOEW/CE / 18-19

Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Priyadarshini Ramteke						Subject: IM		SEM VIII MECH (2018-19)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	10 Dec - 15 Dec	5	I	Concepts of management, development of scientific management, principles of Fredric W. Taylor, principles of Henry Fayol	1. Game to revise Henry Fayols PoM 2. know your qualities 3. Test/case study		Projector	17/12/18 18/12/18 19/12/18		
2	17 Dec - 22 Dec	5		Planning, Decision Making, Organizing, Leadership	1. GD on how you will deal with 4 different groups of employee 2. Convert circular organization chart to vertical chart 3. Test/case study		Projector	20/12/18 20/12/18 21/12/18 24/12/18		
3	24 Dec - 29 Dec	4		Communication, Span of management, Motivation, Controlling	1. Drawing game for improve communication 2. Identify type of decision 3. Test/case study		Projector	27/12/18 28/12/18 31/12/18 1/1/19		
4	31 Dec - 5 Jan	5	II	Personnel management, meaning, functions of personnel management, manpower planning, selection & training	1. GD on how to motivate employee to participate in development program 2. Case study on HRP 3. Test		Projector	2/1/19 3/1/19 4/1/19	4/1/19	

Faculty in Charge **HOD**

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	7 Jan - 12 Jan	5	II	collective bargaining, wages & salary administration, labor welfare, training, trade unions, Trade union act & Labor Legislation.	1. Case study on dealing with trade union 2. GD on what welfare activities you will plan for women working at night shift		Projector	9/1/19 9/1/19 11/1/19 11/1/19		
7	14 Jan - 19 Jan	5	III	Marketing management, Definition, selling & modern concept of marketing, market research,	1. Which marketing concept will you apply for your product 2. Test		Projector	14/1/19 16/1/19 21/1/19	4/1/19	
8	21 Jan - 26 Jan	4		marketing mix, new product development, product life cycle, new product launching	1. Prepare a strategy to launch your project as product in market 2. Segment market for your product		Projector	22/1/19 23/1/19 24/1/19 25/1/19		
6	28 Jan - 2 Feb	ANANNYA 2019								
9	4 Feb - 9 Feb	5	III	sales promotion, pricing, channels of distribution, advertising, market segmentation.	1. Plan innovative sales promotion activity for CCOEW 2. Prepare a short AD for E-promotion of CCOEW		Projector	5/2/19 6/2/19 11/2/19 12/2/19 13/2/19		
10	11 Feb - 16 Feb	5	IV	Financial management, Sources of finance, financing organizations, types of capital, elements of cost	1. Classify the given expenses under different heads		Projector	1/3/19 4/3/19 5/3/19		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	18 Feb - 23 Feb	SESSIONAL - I								
12	25 Feb - 2 Mar	5	IV	allocation of indirect expenses, cost control, break even analysis, budgets & budgetary control	1. Numerical examples on BEP 2. Revisin of types of budgets by students		Projector	4/3/19 5/3/19 6/3/19		
13	4 Mar - 9 Mar	5		equipment replacement policy, make or buy analysis, balance sheet, ratio analysis, profit & loss statement.	1. Prepare a P/L statement for given trasactions 2. Revision of types of ratios by students		Projector	7/3/19 8/3/19 11/3/19	13/3/19	
14	11 Mar - 16 Mar	5	V	Plant management, Plant location, plant layout, Material handling objectives	1. Criticaly evaluate location of MIHAN for different industries		Projector	12/3/19 13/3/19 14/3/19		
15	18 Mar - 23 Mar	5		principles & selectionof material handling equipments types. Industrial safety, causes & cost of accidents,			Projector	15/3/19 18/3/19	20/3/19	
16	25 Mar - 30 Mar	5		accident biorhythms, safety programs, job, batch & process type of production.			Projector	19/3/19 20/3/19		
17			VI	Recent treads in production and operation management like Lean Manufacturing, World Class Manufacturing, Retail Management	SEMINAR		Projector	11/2/19 12/2/19 13/2/19		
18				Supply Chain Management, Value Engineering,Re-engineering, Reverse Engineering,	SEMINAR		Projector	11/2/19 12/2/19 13/2/19		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
19				Business Process Re-engineering, Quality Circle, Just inTime (JIT), Kaizen, Poka Yoke.	SEMINAR		Projector	11/2/19 12/2/19 13/2/19		
20	1 Apr - 8 Apr	SESSIONAL - II								

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Lab Practicals Plan Sem. II

Date: 14/01/18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR									
Faculty Name: Prof. Y. V. Dandekar			Subject: Emeta			for	Department: Mechanical Engineering		
			Batch A2			Batch A1			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Study of crystal structure		26-Jun-18	—		27-Jun-18	27/06		
2	Study of Metallurgical microscope		3-Jul-18	04/07		4-Jul-18	04/07		
3	Hardness testing on Rockwell hardness tester		10-Jul-18	10/07		11-Jul-18	11/07		
4	Mounting of sample on mounting press		17-Jul-18	17/07		18-Jul-18	18/07		
5	Sample preparation for metallographic testing		24-Jul-18	24/07		25-Jul-18	25/07		
6	Metallography of plain carbon steel		31-Jul-18	31/07		1-Aug-18	01/09		
7	Metallography of Cast Iron		7-Aug-18	14/08		8-Aug-18	21/08		
8	Metallography of nonferrous metals		14-Aug-18	21/08		22-Aug-18	28/09		
9	Hardenability test		21-Aug-18	29/08		29-Aug-18	05/09		
10				04/09			11/09		

Faculty in charge

HoD

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CCOEW/TTC / 18-19

Date: 16/06/ 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Y. V. Dadelkar | Subject: Eng | SEM 3 (2018-19) | Sem:-

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 June-22 June			Introduction to engineering materials, their classification, their properties and applications, Difference between metals and non-metals, Mechanical properties of materials	Various engineering materials like bolts,tools, measuring devices, electonic parts, plastics	Material science and metallurgy for engineers by KODGIRE, Chp.1 & 2, Page 1 to 59 and Introduction to physical metallurgy by AVNER, Chp.2 & 3, Page 65 to128	ppt/video	22/06		
2	25 June-30 June			Study of crystal structure, polymorphism and allotropy,Microscopic and macroscopic examination, Miller indices, Imperfections in crystal structure, Mechanism of plastic deformation, slip, dislocations and twinning	Thermocol balls, toothpicks	Material science and metallurgy for engineers by KODGIRE, Chp.1 & 2, Page 1 to 59 and Introduction to physical metallurgy by AVNER, Chp.2 & 3, Page 65 to128	NPTEL video	27/06		
3	2 July-7 July			Solidification of pure metals, nucleation & growth, directional & progressive solidification, Ingot structure, dendritic solidification, solid solutions and their types, Alloy & their formation, mechanical mixture, Hume Rothery rules, Grain shape & size & their effect on the properties, Binary equillibrium diagram, isomorphus system	Student presentations in groups/Quiz	Material science and metallurgy for engineers by KODGIRE, Chp 9, Page 308 to 416 and Introduction to physical metallurgy by AVNER, Chp.4, Page 129 to 146	video files in personal collections	30/06 09/07	30/06 07/07	
4	9 July-13 July			Study of Fe-Fe3C diagram, uses & limitations, Invarient reactions, TTT curve, construction & limitations,	drawing the Fe-Fe3C diagram on graph paper & its study in groups for different tasks given by the teacher	Material science and metallurgy for engineers by KODGIRE, Chp.5, Page 159 to 203	ppt	12/07		
5	16 July-21 July			Heat treatment, principle purpose, Annealing & its types, Normalizing, Tempering,	Performing Annealing heta treatment on SAE 1050 steel	Material science and metallurgy for engineers by KODGIRE, Chp.11&12, Page 455 to 510 and Introduction to physical metallurgy by AVNER, Chp.11&12, Page423 to 546	videos, ppt	25/07	21/07 27/07	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no. Edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
	6		3	Principle planes & stresses, definition of principle planes & stresses, Analytical method for determining stresses of oblique section when member is subjected to direct , Mohr's circle representation of principal stresses.stresses in one plane in mutually perpendicular planes, Analytical method for determining stresses of oblique section when member is subjected to shear stress & direct stresses in one plane in mutually perpendicular planes, volumetric stress & starin with uniaxial, biaxial & triaxial loading. , Bulk modulus, relation between Young's modulus, bulk modulus & modulus of rigidity						
				Sessional -I						
	7		4	Torsion of circular shafts. Derivation of torsional equation. Stregth & rigidity criteria for shaft design. Solid & hollow shaft. Equuivalent twisting & bending moment.						
	8		4	Short & long column, expression for Euler's & Rankines crippling load. Limitations of Euler's formula.						
	9		5	Introduction to fracture mechanics, Modes of fracture, stress intensity factors, crack propogation, creep phenonmenon,						
	10		5	Strain energy & impact loading, definition of strain energy stored in a body when subjected to gradually applied load, Suddenly applied & impact loads. Strain energy stored in bending & torsion. Factor of safety, statastical methods in determining fos. theories of failure. Compound stresses, ecentric axial loading.						
	11		6	Factor of safety, statastical methods in determining fos. theories of failure. Compound stresses, ecentric axial loading.						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no. Edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
	12		6	variable stresses in machine parts, endurance limit, S-N curve, stress concentration & raisers, notch sensitivity, stress concentration factor, methods to reduce stress concentarion, Goodman's criterion, Soderberg's criterion, gerber's criterion, Fatigue design for finite & infinite life of parts subjected to variable loads with uniform cross section						
				Sessional II						

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CCOEW/MECH/18-19 | Date: 11/06/2018

LESSON & TEACHING PLAN

Department of Mechanical Engineering

Faculty Name: Prof. Kedar Chimote	Subject: Fluid Mechanics	SEM: Third (2018-19)	Sem:- Odd

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	18 June - 23 June	3	1	Mass Density, Specific Weight, Specific Gravity, Newton's Law of Viscosity, Dynamic Viscosity, Stroke's Theorem	Oil, Petrol, water etc. fluid demo with stone and floating body.	**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 01. Page no 01-05	—	19|06|18 20|06|18 21|06|18 23|06|18 25|06|18		
2	25 June- 30 June	5	1	Surface Tension, Capillarity, Compressibility, Vapour pressure Types of Flow, Velocity components, convective and local acceleration, velocity potential, stream function, continuity equation in Cartesian co-ordinates.	Cup of glass with U-pin demo (*Detergent/ Soap/ Heat/*) Capillary - Cotton Tube, Paper Tube	**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 5 Page no 160-180	NPTEL Lectures , PPTS, Videos	26|06|18 27|06|18 28|06|18 30|06|18 2|7|18 3|7|18 4|7|18		
3	02 July - 07 July	5	2	Pressure and its measurement using manometers, Hydrostatic law, Pascal's law	Showing actual Manometers and Pressure Gauges available	**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 02. Page no 34-55	NPTEL Lectures , PPTS, Videos	9|7|18 10|7|18 11|7|18 12|7|18 16|7|18		

K.Chimote.

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CCOEW/MECH / 18-19 Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Aditya S Kawadaskar						Subject: Kinematics of Machines		SEM III (2018-19)		Sem:-ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 June - 23 June	4.5	1	Basic concept of mechanism, link, mechanism, kinematics pairs, kinematics chain, Difference between machine and mechanism	Models of IC Engine, Four Bar link Mechanism,Nut and Bot, Window, Door, Wooden links Experiment		www.Mekanizmalar.com , Youtube Videos, NPTEL			
2	25 June - 30 June	4.5	1	machine, simple & compound chain, Degrees of freedom, Kutchbach theory, Estimation of degree of freedom of mechanism by Grubbler's criterion and other methods	Wooden links Experiment, Different Linkages		www.Mekanizmalar.com , Youtube Videos, NPTEL			
3	2 July - 7 July	4.5	1	Inversions Hardings Notation Classification of four bar chain , Class-I & Class-II,	Drawing path on sheets, Links of different sizes and assemble them		How it Works, Mekanizmalar, Youtube videos and NPTEL			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
4	9 July - 14 July	4.5	1	Geneva wheel, Pawl and ratchet mechanism, Exact straight line mechanism, Approx. straight line mechanism, Transport mechanism	Models and videos		How it Works, Mekanizmalar, Youtube videos and NPTEL			
5	16 July - 21 July	4.5	2	Displacement nalysis of planer mechanism by graphical method as well as analytical method	Tieing a stone at the end of string and explaining centripetalforce, Radial and Tangential Acceleration		youtube videos, NPTEL Videos			
6	23 July - 28 July	4.5	2	Velocity AND ACCELERATION analysis of planer mechanism by graphical method as well as analytical	Video of cycle tyre sprinkling water, Tightenin g and loosing of bolt		youtube videos, NPTEL Videos			
7	30 July - 4 August	4.5	2	Coriolis component of acceleration method	Shaper machine Mechanism in Workshop		youtube videos, NPTEL Videos			
8	6 August - 11 August			**Sessional I**						
9	13 August - 18 August	4.5								
10	20 August - 25 August	4.5								
11	27 August - 1 September	4.5								
12	3 September - 8 September	4.5								
13	10 September - 15 September	4.5								
14	17 September - 21 September	4.5								

Faculty In Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
9	13 Aug-18Aug	2	4	Dimensional Homogeneity, Rayleigh method & Buckingham's pi Theorem.		**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 012 Page no 554-577		11|9|18 12|9|18 14|9|18	14|9|18	
10	20Aug- 25 Aug	4	4	Relation between pressure and shear stresses, Laminar flow through round pipe, Fixed parallel plates, Turbulent flow and velocity distribution		**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 9 & 10 Page no 382-430		21|8|18 29|8|18 30|8|18 01|9|18 03|9|18 04|9|18	4|9|18	
11	27 Aug-01Sept	5	5	Darcy-Weisbach equation, Minor losses in pipes, TEL, HGL		**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 11. Page no 460-493	PPTS, Videos	17|9|18 19|9|18 20|9|18 21|9|18	14|9|18	
12	03 Sept-08 Sept	4	5	Moody diagram, pipes in series and parallel, Siphons, Transmission of power	Siphon Tube Demo	**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 11. Page no 497-526		3|10|2018	5|10|18	
13	10 Sept - 15 Sept	2	6	Development of Boundary Layer on a flat plate, Laminar and Turbulent Boundary Layers, Laminar Sub Layer, Separation of Boundary Layer.		**Fluid Mechanics & Hydraulic Machines** By Dr. R. K. Bansal Chapter no. 13. Page no 606-617	PPTS, Videos	4|10|2018 5|10|2018		

Faculty in Charge

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CCOEW/MECH / 18-19

Date: 13/06/2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vikram Dandekar						Subject: DME		5th SEM (2018-19)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18-22 June	5	1	Introduction to mechanical engineering design, design methods.	will take examples of product,what modification or alteration will possible	Machine Design By Khurmi Gupta ch 1 pg 1-8	show PPTs on design Aspects	20/6/18 27/6/18 28/6/18	28/6/18	
2	25-30 June	6	1	Material properties and their uses in design.basic principal of machine design, modes of failure, I.S.codes, preffered series and numbers.	discuss about various metals and use in making products	Machine Design By Khurmi Gupta ch 2 pg 16-32	show PPTs on design Aspects	29/6/18 30/6/18 2/7/18		
3	2-7 July	6	1	Design of knuckle joint, socket and spigot type cotter joints.Design of riveted joints, Aesthetic and ergonomics consideration in design.	will make joint model with mud and chk its failure by loading	Machine Design By Khurmi Gupta ch.9 pg.281-340	show videos on joints	3/7/18 4/7/18 5/7/18		
4	9-13 July	5	2	Design of bolted Joints.Design of welded joints under axial and eccentric loading condition.	discuss on clamps fixed on wall of classroom.	Machine Design By Khurmi Gupta ch.1 pg.8-17	show videos on joints	9/7/18 10/7/18	9/7/18	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/tutorial Date	HOD's sign
5	16-21 July	6	2	Design of cylinder and pressure vessels: Types of pressure vessel, stresses induced in pressure vessel, lame's, clavarino's and bernie's equation.	discuss on water bottle and various vessels.	Machine Design By Khurmi Gupta ch.7 pg 224-260	show videos on pr.vessels.	10/7/18 11/7/18 12/7/18		
6	23-27 July	5	2	Design of cylinder and pressure vessels: Types of pressure vessel, stresses induced in pressure vessel, lame's, clavarino's and bernie's equation.	discuss on water bottle and various vessels.	Machine Design By Khurmi Gupta ch.7 pg 224-261	show videos on pr.vessels.	13/7/18 16/7/18 17/7/18		
7	30-4 Aug	6	3	Design of shaft for - power transmitting, power distribution under static and fatigue criteria. Design of keys, ASME codes for shaft.	shafts and attachments test in mechanics lab	Machine Design By Khurmi Gupta ch.14 pg 509-557	Show NPTEL video	18/7/18 19/7/18 21/7/18	18/7/18 Tutorial	
8	6-10 Aug			**Sessional I**						
9	13-18 Aug	6	3	Design of shaft for - power transmitting, power distribution under static and fatigue criteria, Design of keys, ASME codes for shaft.	shaft models made by sticks and bending .	Machine Design By Khurmi Gupta ch.13 pg 470-508	NPTEL video	30/7/18 31/7/18 1/8/18		
10	20-24 Aug	5	3	Design of springs: spring material, helical compression, tension springs under static and variable loads.	spring shown on college bus.	Machine Design By Khurmi Gupta ch.23 pg 820-844	videos on spring types and applications	2/8/18 3/8/18		

Faculty In Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	27Aug - 1 Sep	6	3&4	Design for fatigue loading, leaf spring,laminated springs.Design of power screw: Forms of threads, multiple threaded screws, terminology of power screw.	leaf spring shown on college bus.	Machine Design By Khurmi Gupta ch.23.pg.845-884	NPTEL video	13/8/18 17/8/18 to 28/8/18 29/8/18		
12	3-7Sep	5	4	Design of screw jack.Problems on screw jack.	screw jack model and working will show	Machine Design By Khurmi Gupta ch.17.pg.624-676	PPT on screw jack	31/8/18 1/9/18 3/9/18 6/9/18		
13	10-14 Sep	6	4	Design of clutches and brakes: Single and multiple plate clutch, constant wear and constant pressure theory for plate clutches, Internal and external shoe brakes.	Brakes and clutch models will show	Machine Design By Khurmi Gupta ch.24.25.pg.885-961	video on brakes and clutches			
14	17-21 Sep			Internal practical and Final submission						
15	24-29 Sep			**Sessional II**						

Faculty in Charge

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Date: 13/ 06 / 2018

:COEW/MECH/ 18-19

LESSON & TEACHING PLAN

Faculty Name: Prof. Sushil R. Lanjewar						Subject: APP		ODD SEM (2018-19)		Sem:- 5th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 June - 23 June	5	1	Introduction to Basic Production processes, Tools used in manufacturing, cutting tool material used in manufacturing, Non- conventional machining Processes: Introduction & classification,		Manufactruing Processes By J P Kaushish Pg. 773-797				
2	25 June - 30 June	5	1	Electrochemical machining, Electrical Discharge, Ultrasonic machining advantages, disadvantages and applications of above processes.		Manufactruing Processes By J P Kaushish Pg. 773-797	PPT, Vedios, Soft notes from IIT Kharagpur			
3	2 July - 7 July	5	1	Laser beam machining, Electron beam machining, Water jet machining, Abrasive jet machining Advantages, disadvantages and applications of above processes.		Manufactruing Processes By J P Kaushish Pg. 773-797	PPT, Vedios,			
4	9 July - 14 July	5	2	Advanced joining Processes : Introduction and classification of welding techniques, Advanced welding processes such as TIG, MIG welding,		Manufactruing Processes By J P Kaushish Pg. 501-609	Vedios,			
5	16 July - 21 July	5	2	Plasma arc welding, Oxyacetylene welding Atomic hydrogen welding , Laser beam welding, construction, working, applicationa, advantages and disadvantages		Manufactruing Processes By J P Kaushish Pg. 501-609	Vedios,			

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COEW/MECH/ 18-19

Date: 13/ 06 / 2018

LESSON & TEACHING PLAN

Faculty Name: Prof. Sushil R. Lanjewar						Subject: APP		ODD SEM (2018-19)		Sem:- 5th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
6	23 July - 28 July		2	Electron beam welding , Electro slag welding, construction, working, applicationa, advantages and disadvantages		Manufactruing Processes By J P Kaushish Pg. 501-609	Vedios,			
7	30 July - 4 Aug		3	Advanced machining Processes: Introduction, Classification, Capstan and turret lathe, Tool layout for capstan and turret lathe, Machining center.		Manufactruing Processes By J P Kaushish Pg. 370-389	PPT, Vedios,			
8	6 - 10 Aug			**Sessional I**						
9	13 - 18 Aug		3	Introduction to micromachining, nanofabrication, high energy rate forming.		Manufactruing Processes By J P Kaushish Pg. 722-723				
10	20 - 25 Aug		4	Die cutting operations: Introduction, Sheet metal cutting, Sheet metal forming, Sheet metal drawing,		Manufactruing Processes By J P Kaushish Pg. 666-690	PPT, Vedios,			

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COEW/MECH/ 18-19

Date: 13/ 06 / 2018

LESSON & TEACHING PLAN

Faculty Name: Prof. Sushil R. Lanjewar						Subject: APP		ODD SEM (2018-19)		Sem:- 5th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	27 Aug - 1 Sep		4	defects in drawn parts, Spinning, Equipments for sheet metal working, Die and punch.		Manufactruing Processes By J P Kaushish Pg. 666-690	PPT, Vedios,			
12	3 - 8 Sep		5	Jigs and fixtures: Introduction, principles of jig and fixture, Principle of location, jig bushes,		Manufactruing Processes By J P Kaushish Pg. 840-874	PPT, Vedios,			
13	10 - 15 Sep		5	Drilling jigs, type of clamps, classification of fixtures.		Manufactruing Processes By J P Kaushish Pg. 840-874	PPT, Vedios,			
14	17- 21 Sep		6	Super finishing processes: Introduction, Principle of super finishing process, Lapping, Honing, Buffing & Electroplating. Principle of operation, advantages, disadvantages and applications of above processes. Application of LASER in surface modification.		Manufactruing Processes By J P Kaushish Pg. 480-484, 901-903	PPT, Vedios,			
15	24- 29 Sep			Sessional II						

Faculty Incharge

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CCOEW/MECH / 18-19

Date: 13/06/2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR											
Faculty Name: Prof. Vikram Dandekar						Subject: AE		7th Sem (2018-19)		Sem:- ODD	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign	
1	18-22 June	Orientation Program on Refrigeration and Air conditioning									
2	25-30 June	5	1	Introduction, Automobile history and development,Chassis , articulated and rigid vehicles and vehicles layout.	w/s Vehical Model practice	Automobile Engg. By Dr.Kirpal Singh ch.1.pg.1-8	Vehical History PPTs	26|6|18 27|6|18 29|6|18			
3	2-7 July	5	1	Engine construction – Structural components and materials Fuel supply system, cooling and lubrication systems	Petrol & diesel engine practice in w/s	Automobile Engg. By Dr.Kirpal Singh ch.1.pg.8-11	Engine working Video	29|6|18 2|7|18 3|7|18			
4	9-13 July	5	1	Filters, water pumps, radiators, Thermostats,antifreezing Compounds.		Automobile Engg. By Dr.Kirpal Singh ch.1.pg.12-20	water pump and thermostat working Video	4|7|18 9|7|18			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	16-21 July	6	2	Clutch – Necessity, requirements of a clutch system. Types of Clutches, centrifugal clutch, single & multi plate clutch, fluid Clutch.	Show clutch Plate and working in w/s	Automobile Engg. By Dr.Kirpal Singh ch.1.pg.28-32	Types of clutch working operation on Video	9|7|18 10|7|18 1		
6	23-27 July	5	2	Gear Selector mechanism, lubrication and control,Torque Converter, Automatic Transmission.	will dismental gear box in w/s.	Automobile Engg. By Dr.Kirpal Singh ch.1.pg.34-78	Types of gear box working operation on Video	11|7|18 17|7|18 18|7|18		
7	30-4 Aug	6	3	Transmission system: Propeller shaft, Universal joint, constant velocity joint, Hotchkiss drive, torque tube drive.	w/s gear box study	Automobile Engg. By Dr.Kirpal Singh ch.1.pg.69-79	Types of gear box working operation on Video	21|7|18 30|7|18 31|7|18		
8	6-10 Aug			**Sessional I**						
9	13-18 Aug	6	3	Differential - Need and types, Rear Axles and Front Axles Brakes - Need, types Mechanical, hydraulic, Pneumatic brakes, Electrical Brakes,	bus differential study	Automobile Engg. By Dr.Kirpal Singh ch.10.pg.319-356	Videos on youtube and NPTELwill show	1|8|18 3|8|18		
10	20-24 Aug	5	3&4	Engine Exhaust brakes, Drum and Disc brakes,Comparison. Details of components, Brake adjustment. 4.Steering systems, principle of steering, center point steering, Steering linkages, steering geometry and wheel alignment, power Steering, special steering	bus brakes and body study	Automobile Engg. By Dr.Kirpal Singh ch.9.pg.266-318	Videos on youtube and NPTELwill show	14|8|18 17|8|18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	27Aug - 1 Sep	6	4	Tyres, tyres specification, factors affecting tyre performance, Special tyres, wheel balancing, suspension systems - Function of Spring and shock absorber.	bus tyre and specification will study	Automobile Engg. By Dr.Kirpal Singh ch.7.pg.170-209	Videos on youtube and NPTELwill show	27|8|18 28|8|18 29|8|18		
12	3-7Sep	5	5	Electrical systems – construction, Operation and maintenance of Batteries, Alternator working Principles and Operation of regulators, starter motor, Battery Ignition and magneto	bus electrical system will study	Automobile Engg. By Dr.Kirpal Singh ch.12.pg.407-426	Videos on youtube and NPTELwill show	30|8|18 31|8|18 4|9|18 5|9|18	3|9|18	
13	10-14 Sep	6	5&6	Recent Advances in automobiles such as ABS, Electronic Power Steering, Steer by wire, Traction control, Active suspension	car system will study	Automobile Engg. By Dr.Kirpal Singh ch.12.pg.427-443	Videos on youtube and NPTELwill show	7|9|18 11|9|18 12|9|18 14|9|18		
14	17-21 Sep	5	6	Collision avoidance, Irnteligent lighting, Navigational aids and Intelligent vehicle highway system.	car system will study	Automobile Engg. By Dr.Kirpal Singh ch.16.pg.485-523	Videos on youtube and NPTELwill show	17|9|18 19|9|18 21|9|18		
15	24-29 Sep			**Sessional II**						

Faculty in Charge

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Date: 4 / 8 / 2018

LESSON & TEACHING PLAN

MECHANICAL ENGINEERING DEPARTMENT

Faculty Name:Dr. Shailesh Khekale						Subject: DMD		SEM -ODD (2017-18)			Sem:- VII	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
1	18 - 22 June	4	1	Coupling: Types of shaft coupling, design of flange coupling, flexible bush coupling.	Discussion with models	Machine Design By Khurmi Gupta , V.B	https://www.youtube.com/watch?v=kJl08Pk-xI4	2/7/18				
2	25 -30 June	4	1	Flywheel: Functions, Coefficient of fluctuation of energy and Coefficient of fluctuation of speed, energy store in flywheel, stresses in flywheel, design of flywheel.		Machine Design By Khurmi Gupta , V.B Bhandari (750-760)	https://www.slideshare.net/VikasDeulgaonkar/flywheelppt https://www.youtube.com/watch?v=xngqym8XZiY https://www.slideshare.net/VikasDeulgaonkar/flywheelppt				Assignments not given	
3	2-7 July	4	1	Design of Bearings: Lubrication. Types of Lubrication, oil seals, design of hydrodynamic journal bearings for radial loads	Discussion with models	Machine Design By Khurmi Gupta , V.B Bhandari (564-640)	https://www.youtube.com/watch?v=dEn2Qvh_gic https://www.youtube.com/watch?v=Mybf-XCA4H4	16/7/18				

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Date: / / 2018

LESSON & TEACHING PLAN

MECHANICAL ENGINEERING DEPARTMENT

Faculty Name:Dr. Shailesh Khekale						Subject: DMD		SEM -ODD (2017-18)			Sem:- VII	
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment Date	Tutorial date	HOD's remark	Principal
4	9-13 July	4	1	Selection of ball and roller bearing for radial and thrust loads. Failures of antifriction bearing, bearing housing	Discussion with models	Machine Design By Khurmi Gupta , V.B Bhandari (564-640)	https://www.youtube.com/watch?v=xhtq8xqBXwE	27/7/18				
5	16-21 July	4	2	Design of Flat belt drive: Types of belts & belt material, analysis of belt tension, condition for transmitting maximum power, design of flat belt, flat belt pulley.		Machine Design By Khurmi Gupta , V.B Bhandari	PPT and https://www.youtube.com/watch?v=tPtlwiiSamI https://www.youtube.com/watch?v=cfAK1bbdtn8	18/8/18				
6	24-26July	3	2	Design of V belt drive: Types of V-belt, analysis of V-belt tension, design of V belt & pulley.	MACHINE SHOP(LATHE MACHINES)	Machine Design By Khurmi Gupta , V.B	https://www.youtube.com/watch?v=nMsB6Soz4Hc	27/8/18				
7	30 July-4 August	4	2	Design of Roller chain drive: Velocity ratio and length of chain, design of chain, dimensions of tooth profile, design of sprocket.	WORK SHOP (MOTOR BIKE)	Machine Design By Khurmi Gupta , V.B Bhandari	https://www.youtube.com/watch?v=uNDGWuxbTnE					
8	6 - 10 August			**Sessional I**								
9	13-18 August	4	2	Design of wire rope drive: Introduction to wire rope, stresses in hoisting wire rope. Design of wire rope, sheave and drum.		Machine Design By Khurmi Gupta , V.B Bhandari	https://www.youtube.com/watch?v=eEZb2y3WX_o https://www.youtube.com/watch?v=eDVf71xd2cO					

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Department of Computer Engineering

(ACADEMIC YEAR 2022-23 to 2018-19)

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Academic year

2022-23

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Date: 07/03/2023

LESSON & TEACHING PLAN for Consumer Affairs

Department of Computer Engineering

Faculty Name: Dr. Priyadarshini Ramteke							Sec: CE	Year : 2022-23		Sem:- IV
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	27-28 Feb	1		Introduction about the subject				20/3/23		
2	1 - 4 March	0		**ANANYA CULTURAL FEST**						
3	6 - 11 March	3	I	Concept of consumers and markets				23/3/23		
				concept of retail price				29/3/23		
				whole sale price				30/3/23		
4	13 - 18 March	0		**Skill Development**						
5	20 - 25 March	2	I	maximum retail price,				30/3/23		
				local taxes,				31/3/23		
				fair price and packaging				31/3/23		
6	27 March - 1 April	2		**Activity**						
			II	Consumer protection act 1986				3/4/23		
				objectives and provisions				6/4/23		
7	3 - 8 April	2		Grievances redress mechanism under consumer protection act 1986				7/4/23		
				procedure for filing and hearing a complaint				13/4/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrenc ook - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
13-3-23 to 18-3-23 (SESSIONAL-1)										
8	20 March-24 March	3	II	RIP		configuring BGP protocol on packet tracer	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 18, 568 Chapter 19, 582 Chapter 20, 610	28|3		
				OSPF				28|3		
				OSPF				28|3		
				BGP				29|3		
				BGP				29|3		
9	27 March-01 April	3	III	ICMPv4		Configuration of protocols on packet tarcer		29|3		
				IGMP.				29|3		
				BGP				29|3		
								29|3		
10	03 April-07 April	3	III	BGP		understanding concept by real time example		4|4		
				TCP header,services				4|4		
			IV	Connection establishment and termination				5|4		
				Interactive data flow				6|4	Assignment No. 3.	9/4/24
				Bulk data flow,				6|4		
11	10 April-15 April	3	IV	Flow control and Retransmission		configuring HTTP protocol		10|4		
				TCP timers,Urgent Data processing,Congestion control.			TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 21,630 Chapter 23,24	12|4,13|4		
				IPv6 addresses,Packet format				13|4		
				Multicast				15|4		
12	17 April-21 April	3	V	ICMPv6,				17|4		
				Interoperation between IPv4 and IPv6				18|4		
				QoS, Auto configuration.		understanding concept by real time example		18|4		
								19|4,20|4,21|4		

24-4-23 to 29-4-23 (SESSIONAL-1)

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Dynamic Programming							
6	6 mar-10 mar	5	II	Matrix chain multiplication			Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan		27/2		
				Matrix chain multiplication					8/3		
				longest common subsequence multistage graphs					8/3		
				longest common subsequence multistage graphs					9/3		
7	13 Mar-18 Mar	5	IV			sessional1	Thomas H. Cormen and Fundamentals of				
8	20 Mar-24 Mar	5	IV	All pair shortest path		Complexity and cost analysis	Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan		13/3		
				All pair shortest path					13/3		
				optimal binary search tree					14/3		
				optimal binary search tree					14/3		
				Travelling salseman problem					14/3 23/3		
9	27 Mar-31 Mar	5	V	Randomized algorithm			Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajs		23/3		
				Randomized algorithm		MCQ patterns of questions					
				Amortized analysis					24/3		
				Amortized analysis							

19/04

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CCOEW/CE/ 22-23

Date: 25/ 01 / 2023

LESSON & TEACHING PLAN for UNIX AND SHELL PROGRAMMING

Department of COMPUTER ENGINEERING

Faculty Name: Prof. SHAILESH SAHU | **Sub: Unix and Shell Programming** | **Sec: -** | **Year : 2022-23** | **Sem:- VIII**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
1	30/01/23 04/02/23	6	1	General Overview of the system: System Structure (Architecture of UNIX Systems). User Perspective (The file system, Processing Environment.)	USP-SS-PPT1		UNIX COMMANDS	The Design of Unix Operating System by- M.J Bach (4-36)		04/2	Assignment No 1	
2	06/02/23 10/02/23	5		(Building Block Primitives),Operating systems services.Assumption about hardware (Interrupts and Exceptions, Processor Execution Levels, Memory Management).						10/2	17/2/23	
3	13/02/23 17/02/23	5	2	Introduction to kernel: Architecture of the UNIX Operating System (Block Diagram of the system Kernel). Introduction to system Concepts (An Overview of the File Subsystem,Processes-State and Transitions). Kernel data structures,System administration.	USP-KA-PPT2					17/2		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
4	20/02/23 24/02/23	6	2	The Buffer cache: Buffer headers, structure of Buffer pool, Scenarios for retrival of a buffer.(Scenarios no. 1 to 5) Reading and writing disk blocks. Tutorial.				The Design of Unix Operating System by- M.J Bach (38-56)		24/02		
5	27/02/23 28/02/23	2	3	Internal representation of files: Inodes (Definition, Accessing Inodes, Releasing Inodes).Structure of regular files.	USP-BC-PPT3		C PROGRAM	The Design of Unix Operating System by- M.J Bach (38-56)		28/02		
6	06/03/23 10/03/23	5	3	Directories.conventions of a path name of nodes (Algo-namei). Super block.Inode assignment to a new file (Algo-ialloc). Allocation of a disk block, other file types. Tutorial.	USP-IN-PPT4		C PROGRAM	The Design of Unix Operating System by- M.J Bach(67-88)		03	Assignment no 1 13/03	
7				**13/03/23 to 18/03/23**								
8	20/03/23 24/03/23	5	4	System calls of the file systems: Open, Read,Write. File and record coding seek.close, file creation, creation of special fileschange directory, root, mode and owner. stat, fstat, pipes, dup mounting and unmounting file system, File system abstraction and maintenance. Tutorial.	USP-IN-PPT4		UNIX COMMANDS	The Design of Unix Operating System by- M.J Bach(67-88)		24/03		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	3 Apr-7 Apr	5	I	File system implementation, Directory implementation,Allocation method,Free-space management, Efficiency & performance, recovery	D-Frag (using windows Disk Management system tool)	Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		29/3/23 30/3/23 31/3/23 3/4/23 31/4/23		
4	10 Apr-15 Apr	5	II	Process concept, process scheduling operations on process,interprocess communication	C Prog (message sending)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128		5/4/23 5/4/23		04/23
				PROCESS SCHEDULING: Basic concepts.	Multithreding using JAVA			6/4/23		
5	17 Apr-22 Apr	5	II	scheduling criteria, scheduling algorithm.multiprocessor scheduling algorithm evaluationithm.	C Prog (Using data structure)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257		10/4/23 10/4/23 11/4/23		
			III	PROCESS SYNCHRONIZATION: Background" Critical section problem, Peterson's solution				12/4/23 13/4/23 17/4/23		
			III	, Hardware solution, semaphore monitors , , classic problems of synchronization, types of semaphore.				18/4/23 19/4/23 20/4/23		
6				**Sessional - I (24 Apr 2023 - 29 Apr 2023)**						
7	1 May-6 May	5	III	THREADING: Multithreaded programming overview,multithreading models.	Algo using C	Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg no. 283-304		21/4/23 1/5/23		

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CCOEW/CE/ 2022-2023

Lab Practicals Plan

Department of Computer Engineering

Prof. Pinky Gangwani			Data Structures			Year : 2022-23			Sem:- IV			
			Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Lab ID	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
1	Write a program in C to implement Bubble Sort		29/3/2023	29/3/23		23/3/2023	23/3/23		21/3/2023	21/3/23		
2	Write a program in C to implement Binary Search		04-05-2023	5/4/23		04-06-2023	6/4/23		28/3/2023	28/3/23		
3	Write a program in C to implement Linkedlist		04-12-2023	12/4/23		13/4/2023	13/4/23		04-04-2023	4/4/23		
4	Write a program in C to demonstrate Stack		19/4/2023	19/4/23		20/4/2023	20/4/23		04-11-2023	11/4/23		
5	Write a program in C to implement Queue		19/4/2023	19/4/23		20/4/2023	20/4/23		18/4/2023	18/4/23		
6	Write a program in C to implement evaluation of postfix expression		05-03-2023	3/5/23		05-04-2023	4/5/23		05-02-2023	2/5/23		

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Department of Computer Engineering

Prof. Pinky Gangwani | **Data Structures** | **Year : 2022-23** | **Sem:- IV**

			Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Lab ID	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
7	Write a program in C to implement binary tree		05-10-2023	10/5/23		05-11-2023	11/5/23		05-09-2023	9/5/23		
8	Write a program in C to implement binary search tree		17/5/2023	17/5/23		18/5/2023	18/5/23		16/5/2023	16/5/23		
9	Write a program in C to implement BFS and DFS traversal algorithms		24/5/2023	24/5/23		25/5/2023	25/5/23		23/5/2023	23/5/23		

Subject Teacher

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LESSON & TEACHING PLAN for Data Structures

Department of Computer Engineering

Faculty Name: Prof. P. Gangwani | Sub : Data Structures | Year : 2022-2023 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	20 Mar-24 Mar	4	I	Introduction: - Concept of Data structures		Data Structures using C by Tanenbaum	20/3/23		
				Time and space analysis of algorithms			21/3/23		
				Big oh and theta notations and omega notations			24/3/23		
				Average, best and worst case analysis			28/3/23		
2	27 Mar-1 Apr	4		Searching techniques- Linear search, Binary search, Indexed search			28/3/23		17/04/23
				Sorting techniques- Insertion sort, selection sort			31/3/23		
				Bubble Sort, radix Sort, Merge Sort			1/4/23		
				Hashing, Collision resolution policies. 25/5/23			7/4/23		
3	3 Apr-7	4		Linked Lists: Simply linked list			5/4/23		
				Implementation of linked list using static and dynamic memory allocation			6/4/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
	Apr		II	Operations on linked list		Data Structures using C by Tanenbaum	7/4/23		
				Polynomial representations and manipulations using linked list			7/4/23		
4	10 Apr-15 Apr	4		circular linked list			7/4/23		
				doubly linked list			10/4/23	① 10/4/23	
				Generalized list			11/4/23		9/5/23
				sparse matrix, polynomial			13/4/23		05/05/23
5	17 Apr-21 Apr	4	III	Stack and Queue - Array representation of stacks, Implementation of stack using arrays		Data Structures using C by Tanenbaum	15/4/23		
				Queues and Dequeue			19/4/23		
				Circular queue			20/4/23		
				Polish notation			17/4/23		
24 Apr - 29 Apr Sessional -I									
6	1 May - 6 May	4	III	Application of stack & queue, Conversion from Infix to Postfix (21/4/23)			18/4/23		
				Evaluation of postfix expressions, Priority Queues (21/4/23)			19/4/23		
				Trees: Basic Terminology, Basic trees			3/5/23		
				Binary tree representations			4/5/23		
				threaded storage representation			5/5/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	Refren Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
7	8 May - 12 May	4	IV	binary tree traversals		Schaum's outline : Data Structures by Seymour Lipschutz	6|5|23		
				binary search trees			8|5|23	② 8|5|23	
				Application of trees			12|5|23		
8	15 May - 19 May	5		Preliminary treatment of AVL Trees			10|5|23		
				B-Trees			12|5|23		
			V	Graphs: Definition & terminology		Data Structures using C by Tanenbaum	15|5|23		
				Graph representation: matrix representation of Graph			15|5|23		
				List of structure			16|5|23		
9	22 May - 26 May	4		other representation of graphs			16|5|23		
				Breadth First Search. Depth First Search			18|5|23		
				Spanning trees			18|5|23		
				Shortest path algorithm, topological sorting 20|5|23			19|5|23		
10	29 May - 31 May	3		Critical path, Symbol Tables 23|5|23			23|5|23	③ 25|5|23	
				static tree tables, dynamic tree tables			7|4|23		
				hash tables, hash functions			11|4|23		
5 June - 9 June Sessional -II									

31\|05\|23

Sub Teacher
Prof. Pinky Gangwani

Dr. Milind Khanapurkar
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Ac
Prof. S. Deote

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
8	10 - 15 April	2	II	remedies, frivolous and vexatious complaints				17/4/23		
				offences and penalties.				20/4/23		
9	17 - 21 April	Sessional - I Exam								
10	24 - 29 April	3	III	Industry regulations and consumer complaint redressal mechanism				21/4/23		
								21/4/23		
11	1 - 6 May	3		Banking – RBI and banking ombudsman,				4/5/23		
								4/5/23		
				Advertising – ASCI				15/5/23		
								15/5/23		
12	8 - 13 May	3		Insurance – IRDA and insurance ombudsman				18/5/23		
								18/5/23		
13	15 - 20 May	3		Telecommunication – TRAI,				19/5/23		
				Food products – FSSAI				20/5/23		
								20/5/23		
14	22 - 27 May	3	IV	Evolution of consumer movements in India				Assignment		
								Assignment		
				their role in consumer protection				Assignment		
15	29 - 31 May	1		national consumer citizen charter				25/5/23		
								26/5/23		
16	1 - 3 June	Internal Practical Exam								
17	5 - 9 June	Sessional II								

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CCOEW/CE / 22-23

LESSON & TEACHING PLAN for Operating System

Department of Computer Engineering

Faculty Name: Prof. Sharayu Deote | Sub: Web Technology | Year : 2022-23 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	20 Mar-24 Mar	5	I	Introduction to HTML, Html tags		The complete reference HTML and CSS			
				Simple HTML forms ,			28/04		
				web site structure					
2	27 Mar-1 Apr	5	I &II	,frame set tags					
				web site structure			07/04		
				Style sheets: Need for CSS, introduction to CSS basic sytax and structure					
3	3 Apr-7 Apr	5	II	CSS background images,color and properties			05/04		
				manipulating texts,using fonts			07/04		
4	10 Apr-15 Apr	5	II	manipulating texts,using fonts, border and boxes				Assig. 01	
				margins, padding list			10/04		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
5	11 Apr-17 Apr	5	II	positioning using CSS, CSS1 Technology , attributes, tree,XML XML, validation -DTD,CSS,Schema,			18/04 19/04 21/04		
6		**Sessional - I (17 Apr 2023 -21 Apr 2023)**							
7	24 Apr-29 Apr	5	III	XML, PARSER, database, Namespace			21/04	Assg.'02	
8	1 May-6 May	5	III	Validation : Understanding validation, the validation control, Rich Controls:			02/05		
9	8 May- 12 May	5	IV	The calender ADROtator, Pages with multiple view, User control and graphics:User controls, dynamic graphics.		The complete reference book by Mathuev macdonald	09/05 12/05 16/05		
10	15 May-20 May	5	IV	Styles themes and master pages:Bsics,					
11	23 May- 27 June		V	ADO.net and data binding Asp.net security Model,		Visual basic .net Comprehensive Concepts and Techniques by Shelly, cashman	17, 18 20/05	Assg. '03	
12	29 May - 31 May	5	V	Forms Authentacation Wndows authentication			22, 23, 26, 29 May		
15		**Sessional II (5 June- 9 June)**							

Faculty in Charge

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CCOEW/CE / 2022-2023

BECME406T

LESSON & TEACHING PLAN for SYSTEM PROGRAMMING

Department of Computer Engineering

Faculty Name: Prof. Supriya Bani						Sub: SP		Sec:	Year : 2022-2023		Sem:- IV
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	20-24 march	4	I	IBM 360/370 & Assembler			System Programming by John J. Donovan, TATA McGRAW-HILL Edition - Chapter 1, 2, 3		20/3		
				Introduction to System Programming & its component					20/3		
				Introduction to System Programming & its component					21/3		
				M/c Architecture,					21/3		
				Instruction Formats					23/3		
				Data Formats Data Formats & Register Formats					23/3		
2	27 march-1 apr	5		Data Formats Data Formats & Register Formats					24/3		
				Concept of assembler					27/3		
									27/3		
				design of single pass and two pass assembler					31/3		
									1/4		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page	nk for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
3	3-7apr	5	II	Macro processor Concept of macro macro call within macro macro definition within macro recursive macro calls			System Programming by John J. Donovan, TATA McGRAW-HILL Edition - Chapter 4		3/4 4/4 4/4 6/4 7/4		
4	10-15 apr	5		recursive macro calls design of macro processor design of macro processor Linkers and Loaders Basic Loader functions					10/4 11/4 13/4 15/4 17/4 18/4 20/4		
5	17-21 Apr		III				System Programming by John J. Donovan, TATA McGRAW-HILL Edition - Chapter 5		.		
				Sessional 1							
6	24-29 apr	5		Loader schemes Complier and go" Loaders general Loader scheme absolute loaders					18/5 16/5 24/5		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
7	1 may - 6 may	5	III	subroutine linkages			D. M. Dhamdere : "Systems programming and operating system", Tata McGraw Hill		24/5		
				relocating loaders							
				direct linking loaders							
				other loader schemes Binders					26/5		
				linking loaders							
				Overlays							
8	8-12 May	5		Dynamic Binders					31/5		
				Design of an absolute Loaders							
				Design of a Direct – Linking loaders					4/5		
				Compiler					6/5		
9	15 -20 May	5	IV	Phases of Compilers			Unix device drives by George Pajani, Pearson Education				
				Overview of Databases and Algorithms required f					22/5		
				Role of lexical analyzer					23/5		
				recognition of tokens					23/5		
				Study of LEX & YACC					28/5		
				Study of LEX & YACC							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
10	22 - 26 May	4		Unix Device Drivers					4/5		
			V	Definition, Anatomy and Types					5/5		
				Device programming							
11	29 May - 3 june	5		Installation,			Intel®64 and IA-32 Architectures Software Developer's Manual Volume1: Basic Architecture		6/5		
				Incorporation of driver routines					8/5		
				Basic device operation					8/5		
				Implementation with Line Printer					9/5		
				Comparative study between device drivers for UNIX &					9/5		
				Case study of Intel®64					11/5		
12	5 june -9 June	5		IA-32 Processors Basic architecture					11/5		
				Sessional II							

Faculty in Charge

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Supriya Bani

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CCOEW/CE / 22-23

LESSON & TEACHING PLAN for TCP/IP & Internet

Department of Computer Engineering

Faculty Name: Prof. Abhilasha T. Borkar		Sub: TCP/IP & Internet	Year : 2022-23	Sem:-VI

Skill Development (23-1-23 to 30-1-23)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb -4 Feb	3	1	Introduction to Networking		http://highered.mheducation.com/sites/0073376043/student_view0/chapter_01_-_multiple_choice_quiz.html	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 1, 2-14 Chapter 2,19-40 Chapter 3, 47-80	30/1/23		
				Network architecture-Standards				31/1/23		
				Comparison of OSI Model and TCP/IP model				1/2/23		
				Connecting Devices				2/2/23		
2	6 Feb -10 Feb	3	1			Physical devices router,switch, ethernet RJ-45 and PPTS on connecting devices by behrouz foruzan				
				Internetworking Concepts				6/2/23		
				Architectural model				7/2/23		
				Internet Backbones				8/2/23		
				NAP, ISP's RFC's				9/2/23		
				Internet standard				10/2/23		

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Nagpur-441110

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
3	13 Feb - 18 Feb	3	2	Internet Standards.		Plan to show LAN connections through video	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 5,6 115-150 161-178	13/2/23		
				IP address classes				15/2/23		
				Internet Addresses				15/2/23		
				Classes,Classful Addressing,Classless Addressing				16/2/23		
4	20 Feb - 24 Feb	3	II	Mask and subnetting		plan to give activity to identify classes and no. of networks and no. of host based on numericals		20/2/23		
				Numerical based on Masking				21/2/23	Assignment 1	
				Subnet Mask			TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 5,6 115-150 161-178	22/2/23		
				ARP and RARP				23/2/23		
				DHCP		cisco packet tracer Simulator installation and Perfroming practical based on Protocols and configuration of		23/2/23		
5	27 Feb - 28 Feb	3	II	Numerical based on Masking				10/3/23		
				two level and three level addressing				14/3/23		
				supernetting				14/23/23		
				IPV6 addressing and packet format				23/3/23		
				IPV6 addressing and packet format				23/3/23		
Anannya Cultural Event (1-3-23 to 4-3-23)										
6	06 March-10 March	3	II	Transition from IPV4 to IPV6.		considering student as a object and perform client server communication		23/3		
				IP Datagram				27/3	Assignment -2	
				IP Package-IP forwarding and routing algorithms				27/3		
				IP Package-IP forwarding and routing algorithms				27/3		
				computing paths				28/3		

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

LESSON & TEACHING PLAN for Design Analysis of Algorithm

Department of Computer Engineering

Faculty Name: Supriya Gupta | Sub: Design and Analysis of Algorithms | Year : 2022-23 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	30th jan - 3rd feb	5	II	intriduction of algorithm		Open up Questioning	Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan		31/1		
				Examples					31/1		
				Tournament method					1/2		
				Evaluating polynomial functions					2/2		
				evaluating polynomial functions		Examples			4/2		
				preprocessing of coefficients		Machine learning	Thomas H. Cormen and Fundamentals of		6/2		
				solving recurrence equations					7/2		

Faculty in Charge

Dr. Milind Khanapurkar, Principal, Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Nagpur-441110

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	6 feb-10 feb	5	II	Asymptotic notation of analysis of algorithm		discussions	Computer Algorithms by Horowits,Sahani,Rajsekharan		13/2		
				complexity					13/2		
				complexity					14/2		
3	13 Feb-17 feb	5	II	Divide and conqure method		real time examples solution	Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan		14/2		
				strassen's matrix multiplication					15/2		
				Greedy method					16/2		
				huffman code					16/2 23/2		
4	20 Feb-24 Feb	5	III	Minimum Spanning Tree			Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan		:		
				Minimum Spanning Tree					20/2		
				Dijkstra algorithm		ABL activity			Tutorial		
				Dijkstra algorithm					21/2		
				Knapsack problem					24/2		
5	27 feb to 03 Mar	5		Knapsack problem		General introduction of Job sequencing with Operating system	Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan		22/2		
				Job sequencing with deadlines					23/2		
				Job sequencing with deadlines					24/2		
				revision							

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	6 feb-10 feb	5	II	Asymptotic notation of analysis of algorithm		discussions	Computer Algorithms by Horowits,Sahani,Rajsekharan				
				complexity							
				complexity							
3	13 Feb-17 feb	5	II	Divide and conqure method		real time examples solution	Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan				
				strassen's matrix multiplication							
				Greedy method							
				huffman code							
4	20 Feb-24 Feb	5	III	Minimum Spanning Tree			Thomas H. Cormen and Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan				
				Minimum Spanning Tree							
				Dijkstra algorithm		ABL activity			Tutorial		
				Dijkstra algorithm							
				Knapsack problem							
5	27 feb to 03 Mar	5		Knapsack problem		General introduction of Job sequencing with Operating system	Fundamentals of Computer Algorithms by Horowits,Sahani,Rajsekharan				
				Job sequencing with deadlines							
				Job sequencing with deadlines							
				revision							

27/02

Faculty in Charge

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Nagpur-441110

HOD

CCOEW/CE/ 22-23

Date: 25/ 01 / 2023

LESSON & TEACHING PLAN for INTERNET OF THINGS

Department of COMPUTER ENGINEERING

Faculty Name: Prof. SHAILESH SAHU | **Sub: Internet of Things** | **Sec: -** | **Year : 2022-23**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date
1	30/01/23 04/02/23	4	1	Introduction to IoT- Characteristics of IoT, IoT ecosystem.					Internet of Things, Srinivasa K. G.		03/02	
2	06/02/23 10/02/23	3		Physical design of IoT, Logical design og IoT.							10/02	
3	13/02/23 17/02/23	3		Functional blocks of IoT, Communication models/reference model of IoT.							17/02	1 Assignment
4	20/02/23 24/02/23	3	2	Data Link Protocols- IEEE802.15.4e IEEE802.11ah							24/02	
5	27/02/23 28/02/23	2		Transport and session layer protocols- Transport layer TCP, UDP.					Internet of Things, Srinivasa K. G.		28/02	
6	06/03/23 10/03/23	3		Session Layer protocols- HTTP,CoAP,XMPP,AMQP,MQTT							10/03	2 Assignment
7				**13/03/23 to 18/03/23**					**Sessional - I**			
8	20/03/23 24/03/23	3	3	Domain Specific IoT- Home automation, smart cities.					Internet of Things,		24/03	

Subject Teacher

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date
9	27/03/23 01/04/23	4	3	Evironmental, retail. Logistics, Agriculture, Health, Lifestyles.					Srinivasa K. G.		01/04	
10	03/04/23 07/04/23	3	4	Building blicks of IoT analytics- Introduction, IoT data and BigData, Challenges o IoT analytics applications.					Building blocks for IoT analytics, John Soldatos		07/04	
11	10/04/23 15/04/23	3	4	Cloud based IoT platform, IaaS, PaaS, and SaaS paradigms.							15/04	3rd Assignment
12	17/04/23 21/04/23	3	5	A reviewof tools- Tools and plaforms and data reasoning. IoT analytics application and case studies.					Building blocks for IoT analytics, John Soldatos		21/04	21/04
13				24/04/23 to 29/04/23					Sessional - II			

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Subject Teacher

AC

CCOEW/CE / 22-23

LESSON & TEACHING PLAN for Data Warehousing & mining (Elective-III)

Department of Computer Engineering

Faculty Name: Prof. Pinky Gangwani | Sub: Data Warehousing & mining | Year : 2022-23 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment /Tutorial Date	AC's sign
1	30th Jan - 4th Feb	5	I	Introduction to data warehousing			Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2012.	30/1/23		
				evolution of decision support system				2/2/23		
				Data warehouse life cycle				3/2/23		
				Building a data warehouse				4/2/23		
				Data Warehousing Components				6/2/23		
2	6 feb-10 feb	4		Data Warehousing Architecture				13/2/23		
				Trends in data warehousing				14/2/23		
				Data marts, Metadata				14/2/23		
				Data Warehouse design & Usage				16/2/23		
3	13 Feb-17 feb	4	II	OnLine Analytical Processing (OLAP)			Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers.	16/2/23		31/03/23
				OLAP operations				16/2/23		
				OLAP Data modeling				17/2/23		
				ROLAP				17/2/23		
4	20 Feb-24 Feb	4		MOLAP				17/2/23		
				HOLAP				20/2/23		
				DOLAP				20/2/23		

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Faculty Name: Prof. Pinky Gangwani

Department of Computer Engineering

Sub: Data Warehousing & mining | Year : 2022-23 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment /Tutorial Date	AC's sign
				OLAP implementation			Elsevier,2nd Edition, 2012.	20/2/23	20/2/23 (1)	
5	27 feb - 04 Mar	1		OLAP Tools				9/3/23		
6	6 mar- 10 mar	2		Multidimentional Databases (MDDBs)				10/3/23		
				SQL Features for DW				10/3/23		
7	13 Mar- 17 Mar	4	III	Differences between operational database systems and data warehouses			Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2012.	13/3/23		
				Data warehouse models and recommended approach for data warehouse development				13/3/23		
				Introduction:Data Mining, What is Data Mining				14/3/23		
				What is the Data Mining Process?				14/3/23		
	18 Mar- 21 Mar Sessional I									
8	23 Mar- 24 Mar	2	III	Basic Data Mining Tasks			Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2012.	14/3/23		9/3/23 10/3/23
				Problem Identification				24/3/23		
9	27 Mar- 1 Apr	4		Data Mining Metrics				24/3/23		
				Data Cleaning (pre-processing, feature selection, data reduction,				27/3/23		
				feature encoding, noise and missing values, etc)				27/3/23	27/3/23 (2)	
				Key Issues, Opportunities for Data Mining				28/3/23		
				Mining Frequent Patterns, Associations and Correlations : Basic Concepts			Data Mining –	31/3/23		

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Department of Computer Engineering

Faculty Name: Prof. Pinky Gangwani | Sub: Data Warehousing & mining | Year : 2022-23 | Sem:- VI

EEK lo.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment /Tutorial Date	AC's sign
10	3 Apr-7 Apr	4	IV	efficient and scalable frequent item set mining algorithms : Apriori algorithm			Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2012.	1/4/23		
				Mining Various Kinds of Association Rules - multilevel and multidimentional rules				3/4/23		
				Association rule mining versus Correlation Analysis				4/4/23		
				Constraint Based Association mining				6/4/23		
11	10 apr-14 apr	4	V	Classification and Prediction : Defination, decision tree induction			Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2012.	10/4/23		
				Bayesian Classification, Rule Based Classification				11/4/23		
				Classification by Back propagation				13/4/23		
12	17 apr-21 apr	4		Support Vector Machine				15/4/23	3	25/04
				Associative Classification				17/4/23	17/4/23	
				Lazy Learners				19/4/23		
				Prediction, accuracy and error measures				19/4/23		

24 April -29 April Sessional - II

Sub Teacher
Prof. Pinky Gangwani

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Ac
Prof. S. Deote

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	7 Feb - 12 Feb	5		Error handling and Symbol Table management, Handling constants, literals, labels and Procedures					11/2/2022		
				One pass assembler design and comparison with two pass assembler design, Cross assembler.					14/2/2022		18/02/22
3	14 Feb - 19 Feb	5	II	Macro language and macro processor			System Programming by John J. Donovan, TATA McGRAW-HILL Edition - Chapter 4		15/2/2022		
				Macro instructions					16/2/2022		
				Features of macro facility					17/2/2022		
				Macro instruction arguments					18/2/2022		
				Conditional macro expansion					21/2/2022		
4	21 Feb - 26 Feb	5		Macro call within macros, macros instructions defining macros					22/2/2022		
				Implementation- A two pass algorithm					22/2/2022		
				Implementation- A single pass algorithm					23/2/2022		
				Implementation- Macro call within macros					24/2/2022		07/03
				Implementation within an assembler					24/2/2022		
				Assignment no-1					[illegible]	28/2/22	
				Basic Loader functions					3/3/2022		

Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	7 Feb - 12 Feb	5		Error handling and Symbol Table management, Handling constants, literals, labels and Procedures					11/2/2022		
				One pass assembler design and comparison with two pass assembler design, Cross assembler.					14/2/2022		18/02/22
3	14 Feb - 19 Feb	5	II	Macro language and macro processor			System Programming by John J. Donovan, TATA McGRAW-HILL Edition - Chapter 4		15/2/2022		
				Macro instructions					16/2/2022		
				Features of macro facility					17/2/2022		
				Macro instruction arguments					18/2/2022		
				Conditional macro expansion					21/2/2022		
4	21 Feb - 26 Feb	5		Macro call within macros, macros instructions defining macros					22/2/2022		
				Implementation- A two pass algorithm					22/2/2022		
				Implementation- A single pass algorithm					23/2/2022		
				Implementation- Macro call within macros					24/2/2022		01/03
				Implementation within an assembler					24/2/2022		
				Assignment no-1					28/2/22		
				Basic Loader functions					3/3/2022		

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Interpreters					28/3/2022		
				Assignment no-2						28/3/2022	
9	4 Apr-9 Apr	5	V	Unix Device Drivers: Definition			Unix device drives by George Pajani, Pearson Education		29/3/2022		
				Anatomy and types					29/3/2022		
				Device Programming					30/3/2022		
				Installation and Incorporation of driver routines					30/3/2022		
				Basic device driver operation					1/4/2022		
				Implementation with Line printer					1/4/2022		
10	11 Apr-16 Apr	4		Comparative study between device drivers for Unix and Windows.					4/4/2022		
			VI	Case study of Intel®64 and IA-32 Processors - Basic architecture			Intel®64 and IA-32 Architectures Software Developer's Manual Volume1: Basic Architecture		5/4/2022		
				Notational conventions					5/4/2022		
11	18 Apr-23 Apr	5		brief history of Intel® 64 and IA-32 Architecture					6/4/2022		
				Intel NetBurst® Micro-architecture					7/4/2022		
				Specific advances					7/4/2022		
				Basic execution environment: Modes of operation					8/4/2022		
				Overview of the basic execution environment, memory organization					8/4/2022		
				basic program execution registers, instruction pointer					11/4/2022		

Faculty in Charge

HOD

07/04

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Apr			Community cloud		John.Rittinghouse "Cloud Computing " PDF from		6/4/23		
				Cloud Architecture				6/4/23		
11	17 Apr-	2		Revision				11/4/23		
								12/4/23		
24Apr-29 Apr Sessional -II										

25/04/23

Subject-Teacher
S.Khamankar

HOD
S.Deote

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	20 Mar-24 Mar	4	IV	Grid Computing	understanding the concept of grid computing by real time example of solar plant			8/3/23		
				Grid Computing models				8/3/23		
				Protocols, Types of Grid				9/3/23		
				Desktop Grid,cluster grid				10/3/23		
8	27 Mar-1 Apr	5		HPC Grid,Data Grids		"Grid Computing" Ahmar Abbas PDF from Internet		14/3/23	2nd assignment	
				Message Passing Interface (MPI)				15/3/23		
				Procedures, Arguments ,Data Types				15/3/23		04/23
				Processes ,Platform independence	for message passing student will chat on whats app..one to one there will be message passing one to all there will be collective communication…			16/3/23		03
			V	Error Handling				17/3/23		
				Point-to-Point Communication				24/3/23		
				Collective Communication				27/3/23	3rd Assignment	
9	3 Apr-7Apr	5		Platform independence	plan to give them case study on cloud	John.Rittinghouse "Cloud Computing " PDF from Internet		28/3/23		
				Process Technologies				29/3/23		
				Introduction of cloud computing				31/3/23		
				Characteristics,Benefits of cloud				1/4/23		
10	10 Apr-15 Apr	5	VI	Cloud models				3/4/23		
				Service models : IaaS, PaaS, SaaS				4/4/23		
				Public cloud,Private cloud,Hybrid cloud				5/4/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	20 Mar-24 Mar	4	IV	Grid Computing	understanding the concept of grid computing by real time example of solar plant			8/3/23		
				Grid Computing models				8/3/23		
				Protocols, Types of Grid				9/3/23		
				Desktop Grid,cluster grid				10/3/23		
8	27 Mar-1 Apr	5		HPC Grid,Data Grids		"Grid Computing" Ahmar Abbas PDF from Internet		14/3/23	2nd assignment	
				Message Passing Interface (MPI)				15/3/23		
				Procedures, Arguments ,Data Types				15/3/23		04/23
				Processes ,Platform independence	for message passing student will chat on whats app..one to one there will be message passing one to all there will be collective communication…			16/3/23		03
			V	Error Handling				17/3/23		
				Point-to-Point Communication				24/3/23		
				Collective Communication				27/3/23	3rd Assignment	
9	3 Apr-7Apr	5		Platform independence	plan to give them case study on cloud	John.Rittinghouse "Cloud Computing " PDF from Internet		28/3/23		
				Process Technologies				29/3/23		
				Introduction of cloud computing				31/3/23		
				Characteristics,Benefits of cloud				1/4/23		
10	10 Apr-15 Apr	5	VI	Cloud models				3/4/23		
				Service models : IaaS, PaaS, SaaS				4/4/23		
				Public cloud,Private cloud,Hybrid cloud				5/4/23		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	18 Feb	3	III	Token based algorithm	message			16/2/23		
								17/2/23		
				Lamports Algorithm				17/2/23		
4	20 Feb-24Feb	5		Ricart Aggrwala Algorithm	for understanding the concept of shared memory board consider as a shared memory and student allow to write anything on it like message ,note etc.	"Distributed Operating system" M.A.Ansari chap 6		20/2/23		
				Suzuki Kasamis Algorithm				20/23		
				Raymond Tree based and Singhal herustics algorithm				20/2/23		
				Distributed file systems, Design issues				21/2/23		
5	27 Feb-28 Feb	2		Distributed Shared Memory				21/2/23		
				Introduction to middleware technology				22/2/23		
1 Mar- 4 Mar ANANYA										
6	6 Mar -10 Mar	5	III	Design issues	CORBA is middelware and mostly used technology so giving the student middelware as a topic and study it and do anylysis why corba is popular	Distributed system consept		23/2/23		
				Implementation issues				23/2/23		
				CORBA Case Study				24/2/23		
				RMI-Remote Method Invocation				27/2/23		
				CORBA services				27/2/23		
13 Mar- 18 Mar Sessional-I										

27/02/23

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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CCOEW/CE / 2022-2023

Date: 16/1/ 2023

LESSON & TEACHING PLAN for Distributed System & Grid Computing

Department of Computer Engineering

Faculty Name: Prof. S.Khamankar	Sub: DSGC	Sec:	Year : 2022-2023	Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	30 Jan- 4 Jan	5	I	Motivation and goals Overview and advantages of DS	Plan to divide class into at least two group and announce a competition for most points on a practice test. Let them study a topic together and then give that quiz, after each round,let them study the next topic before quizzing again on online platform			1/2/23 2/2/23	1st Assignment	
				Characteristics-Absence of global clock				4/2/23		
				State (Local and Global), Possibility of large network delays				4/2/23 8/2/23		
				Scalability, security, Resource manage				8/2/23		
2	6 Feb- 10 Feb	5	II	Time and Global States-Introduction	for understanding the concept of clock synchronization …forming the group of 5 student and setting the clock and dictacting the message to each group and let them synchronise with that			9/2/23		
				Clocks,Events and process states				10/2/23		
				Synchronizing Physical clocks				10/2/23		
				Logical time,Logical clocks				13/2/22	2nd	
				Global states , Distributed debugging				14/2/23		
				Coordination , Agreement				14/2/23		
	13 Feb-	5		Distributed mutual exclusion				15/2/23		

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Lab Practicals Plan

CCOEW/ Department of ETC 2022-23

Jaya Raut		DCFMU				Department: CE			
		BatchB 1			Batch B3				
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark	
1	To study and verify the truth table of basic logic gates	26/8/2022	22/9	–	5/9/2022	8/9	–		
2	To study and verify the truth table of Universal gates	2/9/2022	6/10	1	12/9/2022	8/9			
3	To study and verify the truth table of Half and Full adder circuit	9/9/2022	17/11		19/9/22	7/10			
4	To study and verify the truth table of Half and Full subtractor circuit	16/9/22	24/11		26/9/22	7/10			
5	To study and verify the truth table of multiplexer and Demultimulexer circuit	23/9/22	1/12		3/10/2022	25/11			
6	To study and verify the truth table of BCD to seven segment display	30/9/22	8/12		10/10/2022	25/11			
7	To study and verify the truth table of J-K Flip flop	7/10/2022	22/12		7/11/2022	2/12			
8	To study the architechture of Microprocessor 8085.	4/11/2022	23/12		14/11/2022	22/12			

Sub. Teacher

Ac

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CCOEW/ CE/ 22-23

Date: 22/08/ 2022

LESSON & TEACHING PLAN for DCFM

Department of Computer Engineering

Faculty Name: Asst.Prof.A.K.Tripathi					Year : 2022-23		Sem:- III	Subject Code: BECMEC302T		
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	22 Aug-26 Aug 22	5		Skill Development Workshop						
2	29 Aug-03 Sept 22	6	1	Introduction, Syllabus Discussion,Number System, Boolean Algebra,		1.Morris Mano : "An approach to digital Design", Pearson Publications. 2.R. P. Jain : "Modern digital electronics" , TMH Publications		09-09-22		
3	05 Sept- 09 Sept 22	5		Logic Gates and their truth tables, D Morgan's Laws, k-map representation (SOP & POS forms).				12-09-22		
4	12 Sept- 17 Sept 22	6		Minimization of logical functions for min-terms and maxterms (upto 5 variables), Arithmetic Circuits,				13-09-22		

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5	19 Sept- 23 Sept 22	5	2	Adders and their use as substractor, ALU, Digital Comparator, Parity generators/checkers. BCD - to – 7 segment decoder, Code converters.		1.Morris Mano : "An approach to digital Design", Pearson Publications. 2.R. P. Jain : "Modern digital electronics" , TMH Publications		21-09 -22		
6	26 Sept - 01 Oct 22	6		Multiplexers and their use in combinational logic designs, multiplexer trees, Demultiplexers, Encoders & Decoders.				26-09 -22		
7	03 Oct - 07 Oct 22	5	3	1 Bit Memory Cell, Clocked SR, JK, MS J-K flip flop, D and T flip-flops. Use of preset and clear terminals.		1.Morris Mano : "An approach to digital Design", Pearson Publications. 2.R. P. Jain : "Modern digital electronics" , TMH Publications		03-10 -22		
8	10 Oct - 12 Oct 22	6		Excitation Table for flip flops, Conversion of flip flops, Registers, Shift registers.				11-10 - 22		
9	13 Oct - 20 Oct			SESSIONAL EXAM - I						
10	24 Oct - 29 Oct 22			DIWALI VACATION						
11	31 Oct - 05 Nov 22	6	3	Counters (ring counters, twisted ring counters).		1.Morris Mano : "An approach to digital Design", Pearson Publications.		02-11-22		
12	07 Nov - 11 Nov 22	5		Sequence Generators, ripple counters, up/down counters.				09-11-22		

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13	07 Nov - 11 Nov 22	5		Synchronous counters, lock out, clock skew		2.R. P. Jain : "Modern digital electronics" , TMH Publications		10-11-22		
14	14 Nov - 19 Nov 22	6	4	Classification & characteristics of memory RAM, ROM, EPROM, EEPROM, SRAM, DRAM, expanding memory size,Syncronous DRAM, SDRAM		"An approach to digital Design", Pearson Publications. 2.R. P. Jain : "Modern digital electronics" , TMH Publications		17-11-22		
15	21 Nov - 25 Nov 22	5		SRAM, DDR,QDR SRAM, PLD, PAL, PLA, Designing combinational circuits using PLDs				08-12-22		
16	28 Nov - 03 Dec 22	6	5	Introduction to Intel's 8085, Architecture-description, Pin description.Addressing Modes. 8085 instruction set.		Ramesh Gaonkar : " Microprocessor Architecture, Programming and Applications with the 8085", Penram International Publications.		13-12-22		
17	05 Dec - 09 Dec 22	5		Concept of assembly language programming, Interrupts.				22-12-22		
18	15 Dec - 23 Dec 22			SESSIONAL EXAM - II						

Prof.A.K.Tripathi
(Faculty InCharge)

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CCOEW/CE / 2022-2023

Date: 20/08/2022

LESSON & TEACHING PLAN FOR :- INTRODUCTION TO COMPUTER NETWORKS

Department of Computer Engineering

Faculty Name: Prof. Sharayu Deote						Sub: ICN			Year : 2022-2023		Sem:- III
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	29Aug To 3 Sep	5	I	Introduction to Data Communication And Computer Networks			The complete reference fourth edition by herb Schildt, 6-65				
				Cefinitaion, Characteristics Compnents							
				Data Representation, Types of Data flow							
				Need of Computer Networks, advantages & Disadvantages.					03/09		
2	5 Sep To 9 Sep	5		Goals & Application of Computer Network							
				Network Hardware Components							
				Computer Network Criteria Physical Structure							
				Type of Network					9/09		
				Classification of Local Area network			The complete reference fourth edition by herb Schildt, 96-147				
				Layered Model							

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	12 Sep To 17 Sep	5		Protocol Hierarchies							
				Network Model					-		
				Design issues for the Layers							
				Interfaces and Services					17 sept		
4	19 Sep To 24Sep	5	II	Service Primitives			Object-oriented programming with C++ by E.Balagurusamy, 2nd Edition, TMH.				
				Connecton Oriented & Connectionless types of services							
				OSI Reference Model & architecutre						12th/09	
				TCP / IP Reference model					25/09		
				Types of addressing							
5	26 Sep To 1 Oct	3		Physical Layer Types of Signals							
				Transmission Mode							
				Transmission Impairment							
				Data rate Limits, Performance							
				Digital Convesion Line coding techniques					01/oct	01	
6	3 Oct To	4		Transmission Media							
				Swotcjomg Techniques							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	8 Oct	4	III	Data Link Laer Introduction to MAC & LLC sub layers			Object-oriented programming with C++ by E.Balagurusamy, 2nd Edition, TMH.				
				Framing metods, Error detction & correction methods					6 Oct.		
7	10 Oct To 15 Oct	4		LLC sub layer Protocols for Noise & Noiseless channels							
				MAC layer multiple access Protocols							
				Channelization							
				Introducton to Virtual Lan					15 Oct.		
Sessional -I											
8	31 Oct To 5 Nov	5	III	IPv4 Addressign method							
				Routing algorithm							
				Address Mapping protocols							
				ICMP protocol					07 Nov		
				Subnet & Subnet Masking Techniques for classful addres							
9	7 Nov To 12 Nov	4		Transport Layer Elements of Transport Protocols							
				Addressing technique							
				Connection Oriented Service					12 Nov.		

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WE EK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no.edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Tcp protocol and header format							
10	14 Nov To 19 Nov	5	IV	TCP checksum calculation			Object-oriented programming with C++ by E.Balagurusamy, 2nd Edition, TMH.				
				TCP transmission Policy					21 NOV		
				UDP protocol and header format							
				UDP checksum calculation							
				SCTP protocol							
11	21 Nov To 26 Nov	3		QoS parameters					28 NOV		
				Congestion control methods							
				Traffic Shaping algorithms							
12	28 Nov To 3 Dec	5	V	Sessing and Presentation Layer Session Layer Desingn iss							
				Responsibilities of Presentation layer							
				Application Layer and Network Security					05-Dec		
				Responsibilities of Application Layer							
				Application Layer							
				DNS Email							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
13	4 Dec To 10 Dec	5		Architucture of WWW & HTTP							
				Introduction to Cryptography Security Services					12-Dec		
				Introduciton to Symmetric & Asymmetric Key Cryptogra							
				Digital Signature							
Sessional -II											

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Faculty in Charge **HOD**

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CCOEW/AS / 22-23

Date: 22/08/2022

LESSON & TEACHING PLAN for 3CE - Theory of Computation

Department of Computer Engineering

Faculty Name: Prof. Shailesh Sahu | Sub: Theory of Computation | Year : 2022-23 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	29/08 to 03/09	3	I	Introduction to Theory of Automaton, Strings, Alphabet, Language, Chomsky hierarchy of languages.	FA_CE_ppt_01		(set Theory)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 35 to45		31/08		
				Finite state machine definitions, Finite automation model. Acceptance of strings and language						03/09		
2	05/09 to 08/09	3		Non deterministic finite automation,	NFA_CE_ppt_02		(Examples)			08/09		
				Design of Automation			(Examples)					
3	12/09 to 17/09	3		Deterministic finite automation.	FSM_CE_ppt_03					12/09		
				Design of Automation								
4	19/09 to 23/09	3		Equivalence between NFA and DFA	MO_CE_ppt_04		(Uisng 2D Arrays)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 60 to 77		20/09		
				Conversion of NFA into DFA, NFA with e-moves and e-closure with examples.						23/09	Assignment 1	
5	26/09 to 01/10	3	II	Conversion of NFA with e-moves to without e-moves.	RE_CE_ppt_05		(set Theory)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 79 to 105		07/10		
				Minimization of FSM. Equivalence between two FSM'S.								
				Moore and Mealy machines								
6	03/10 to 07/10	3		Interconversion between Moore and Mealy machines.	REFA_CE_ppt_06					12/10		

12/10/22

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7		**Sessional - I (13 Octo to 20 Octo 2021)**										
8	31/10 to 05/11	3	III	Introduction to Regular languages and Regular expression.Regular set, Regular Expression,Regular languages smaple examples. Converstion from RE to RG.Regular expression examples. Equivalence.	RG_CE_ppt_08			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No.105 to 154		2/11/22		
9	07/11 to 11/11	3		Inter Conversion between Regular Expression and FA.Converstion from RE to RG. Introduction to CFG and derivation Trees. Left Derivation Tree and Right Derivation Tree.	CFG_CE_ppt_09		(using data structure STACK)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 157 to 175		9/11/2022 11/11/22	3 Assignment	
10	14/11 to 19/11	3	IV	CFG minimization (Reduction to CFG) Chomsky normal form. CNF, Greibach normal form. GNF	PDA_CE_ppt_10		(using data structure STACK)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 175 to 200, Page No. 200 to 235		16/11/22 19/11/22		
11	21/11 to 25/11	3		Push Down Automaton Definition and model. Implementation of PDA.	TM_CE_ppt_11			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 234 to 380		25/11/22		
12	28/11 to 03/12	3	V	Introduction to Turing Machine. Definition and Model of TM. Types and Design of TM.						02/12/22		
13	05/12 to 09/12	3		Decidability and Undecidability of problems,Properties of recursive & recursively enumerable languages. Post Correspondence problem and Ackerman function.				Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 287 to 337		09/12/22	3 Assignment	
14		**Sessional II (1 Dec to 8 Dec 2021)**										

Faculty in Charge

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CCOEW/CE / 2022-2023

Date: 20/08/2022

LESSON & TEACHING PLAN for Object Oriented Programming

Department of Computer Engineering

Faculty Name: Prof. P. Gangwani					Sub: OOP		Sec:	Year : 2022-2023		Sem:- III
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Date	AC's sign
1	Aug 29 - Sep 3	4	I	Introduction: Taxonomy and history of Computer Programming		The complete reference fourth edition by herb Schildt, 6-65		29/8/22		
				Program Execution basics				30/8/22		
				Problem solving and programming strategies				1/9/22		
				Programming paradigms. Algorithm and flowchart design				3/9/22		
				Principles of Structured programming				5/9/22		
2	Sep 5 - Sep 9	5		C Language Fundamentals: Loop control statements				7/9/22		
				Arrays One dimensional & Two-dimensional array				8/9/22		
				Functions – Definition, call, prototypes (1st lec)				12/9/22		
				functions - block structure, external variables (2nd lec)				12/9/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Date	AC's sign
				Unions				29/9/22		
				Discussion on university Questions				3/10/22		
6	3 Oct - 8 Oct	4	III	Principles of Object Oriented Programming: Object Oriented Programming Paradigm		Object-oriented programming with C++ by E.Balagurusamy, 2nd Edition, TMH Chapter 3		3/10/22		
				Basic Concepts of Object Oriented Programming				6/10/22		
				Benefits of Object Oriented Programming				6/10/22		
				Object Oriented Languages 1st				10/10/22		
7	10 Oct - 15 Oct	4		Applications of Object Oriented Programming 1st				10/10/22		
				C++ Basics : Tokens, Keywords 4th				10/10/22		
				Identifiers and Constants				14/11/22		
				Data Types, Type Compatibility				14/11/22		
				Sessional -I						
8	31 Oct - 5 Nov	5	III	Variables, Operators in C++		Object-oriented programming with C++ by E.Balagurusamy, 2nd Edition, TMH Chapter 3		15/11/22		
				Implicit Conversions				15/11/22		
				Operator Overloading				16/11/22		
				Operator Precedence				16/11/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Date	AC's sign
				Control Structures				17/11/22		
9	7 Nov - 12 Nov	4	IV	Functions in C++ : The Main Function		Object-oriented programming with C++ by E.Balagurusamy, 2nd Edition, TMH Chapter 4,5,6		23/11/22		
				Function Prototyping, Call by Reference, Return by Reference				24/11/22		
				Inline Functions, Friend Functions				25/11/22		
				Classes & Objects: Specifying a class, Member Functions				28/11/22		
10	14 Nov - 19 Nov	5		Arrays within a class				30/11/22		
				Static Member Functions, Arrays of Objects				1/12/22		
				Constructors, Parameterized Constructors				1/12/22		
				Copy Constructors, Dynamic Constructors				2/12/22		
				Destructors				3/12/22		
11	21 Nov - 26 Nov	3		Polymorphism: Operator Overloading				3/12/22		
				Overloading Operators, Rules for Overloading Operators				5/12/22		
				Type Conversions				12/12/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Date	AC's sign
12	28 Nov - 3 Dec	5	V	Function Overloading		Object-oriented programming with C++ by E.Balagurusamy, 2nd Edition, TMH Chapter 7,8,9		12/12/22		
				Virtual Functions				14/12/22		
				Inheritance: Derived Classes, Single 1st				15/12/22		
				multilevel, multiple inheritance 2nd				15/12/22		
				Abstract Classes				16/12/22		
13	4 Dec - 10 Dec	5		Virtual and pure virtual functions				20/12/22		
				Pointers in C++: Pointers to Objects				21/12/22		
				this pointer				21/12/22		
				Pointer to Derived Classes				22/12/22		
				Exception handling				23/12/22		
Sessional -II										

Subject Teacher

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CCOEW/CE/ 2022-2023

Lab Practicals Plan

Department of Computer Engineering

Prof. Pinky Gangwani	Object Oriented Programming	Year : 2022-23	Sem:- III	

		Batch B1			Batch B2			Batch B3			
Pr	Name of experiment	Planned Date	Perform Date	No. of Viva done and link for viva question s	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
	Coding Practice (Basic programs)	2/9/2022	2/9/22		1/9/2022	1/9/22		1/9/2022 - 2/9/2022	1/9/22 - 2/9/22		
1	Write a program in C to implement for loop, while loop and do-while loop	16/9/2022	2/9/22		22/9/2022	1/9/22		7/9/2022	7/9/22		
2	Write a program in C to implement 1-D and 2-D Array	23/9/2022	9/9/22		29/9/2022	22/9/22		21/9/2022	21/9/22		
3	Write a program in C to implement function and recursion	7/10/2022	16/9/22		6/10/2022	29/9/22		28/9/2022	9/11/22		
4	Write a program in C to demonstrate structures and pointers	14/10/2022	23/9/22		13/10/2022	6/10/22		12/10/2022	16/11/22		
5	Write a program in C++ to implement concept of class and object	4/11/2022	12/11/22		3/11/2022	17/11/22		2/11/2022	23/11/22		
6	Write a program in C++ to implement constructor & destructor	11/11/2022	12/11/22		10/11/2022	24/11/22		9/11/2022	23/11/22		

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Lab Practicals Plan

Department of Computer Engineering

Prof. Pinky Gangwani	Object Oriented Programming	Year : 2022-23	Sem:- III	

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
7	Write a program in C++ to implement the concept of operator overloading	18/11/2022	25/11/22		17/11/2022	1/12/22		16/11/2022	30/11/22		
8	Write a program in C++ to implement the concept of inheritance	25/11/2022	2/12/22		24/11/2022	15/12/22		23/11/2022	7/12/22		
9	Write a program in C++ to implement the concept of polymorphism	2/12/2022	9/12/22		1/12/2022	22/12/22		30/11/2022	14/12/22		

Subject Teacher

Dr. Milind Khanapurkar
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CCOEW/AS / 22-23

Date: 08/08/2022

LESSON & TEACHING PLAN for 3CE - Theory of Computation

Department of Computer Engineering

Faculty Name: Prof. Shailesh Sahu | Sub: Java Programming | Year : 2022-23 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	08/08 to 12/08	3	I	**Java Basics:** Review of Object Oriented concepts, History of Java.				The Complete Reference JAVA 7th edition by Herbert Schildt Pg. No 3 to 74		08/08		
				JVM architecture, Data Types								
				Variables, Scope and life time of variables						12/08		
2	17/08 to 20/08	3		Arrays, Operators						12/08		
				Control statements								
				Simple java Programs						20/08		
3	22/08 to 26/08	3		Static block, Static Data, Static Method						22/08		
				String Handling and String Buffer Classes.						26/08		
4	29/08 to 03/09	3	II	**Object & Class:** Object Oriented Programmign, Class Fundamentals				The Complete Reference JAVA 7th edition by Herbert Schildt Pg. No 105 to 155		29/08		
				Object and Object reference, Object Life tiem & Garbage Collectoion						03/09	① Assignment	
				Creating and Operating Objects								
5	03/09 to 09/09	3		Constructor & Initialization code block						09/09		
				Access Control Modifiers								
6	12/09 to 16/09	3		Methods, Inner Class and Anonymous Classes.						16/09		
7	**Sessional - I (17 Sept to 23 Sept 2022)**											

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
8	26/09 to 01/10	3	III	**Inheritance and Polymorphism:** Basic Concepts Types of Inheritance Member access rules				The Complete Reference JAVA 7th edition by Herbert Schildt Pg. No 157 to 202		28/9		
9	03/10 to 07/10	3		Usage of this and super keyword Method Overloading Method Overrriding						05/10		
10	10/10 to 15/10	3		Abstract classes, Dynamic Method Dispatch, Usage of final Keyword. **Packages and interfaces:** Defining package, Access Protection, Importing packages Defing and implementing interfaces, and extending interfaces.						19/10	(2) Assignment	
11	17/10 to 22/10	3	IV	**Input and Output and File Handling:** concepts of streams, Stream classes- Byte and character stream Reading console input and writing console output				The Complete Reference JAVA 7th edition by Herbert Schildt Pg. No 205 to 222		31/10		
12	31/10 to 05/11	3		wrapper classes File handling						02/11		
13	07/11 to 11/11	3		**Exception handling**: Exception types, Usage of Try, Catch, Throw, throws and Finally keywords. Built in Eception, Creating own Exception classes.						09/11 11/11		
14	14/11 to 19/11	3	V	**MultiThreading:** Concepts of Thread, Thread life cycle, crating Thread using Thread class and Runnalble interface.				The Complete Reference JAVA 7th edition by Herbert Schildt Pg. No 223 to 254		16/11	(3) Assignment	
15	21/11 to 21/11	3		Synchronization, Thread Priorities, Inter Thread Communication.						21/11		
17	**Sessional II (28 Nov to 3 Dec 2022)**											

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Lab Practicals Plan

CCOEW/ Department of Computer Engineering 2022-23

Prof. Supriya Gupta | **Database Management System**

Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	DBMS BatchB 1 Planned Date	DBMS BatchB 1 Perform Date	DBMS BatchB 1 No. of Viva done and link for viva	DBMS BatchB 2 Planned Date	DBMS BatchB 2 Perform Date	DBMS BatchB 2 No. of Viva done and link	DBMS BatchB 3 Planned Date	DBMS BatchB 3 Perform Date	DBMS BatchB 3 No. of Viva done and link	AC Remarks
1	1. To study of DBMS and RDBMS, 2. To study DDL and DML				08-08-22	8/8		10/8/22 08-10-22	10/8		9/8/22 08-09-22	23/8		
2	Study of select command with different clauses including group by and order by and date clause.				22/8/22	22/8		17/8/22	17/8		16/8/22	30/8		
3	Study of SINGLE Row functions (character, numeric, Data functions).				29/8/22	29/8		24/8/22	24/8		23/8/22	6/9		
4	To study SQL Aggregate Functions (count, sum, min, max)				09-05-22	5/9		09-07-22	7/9		30/8/22	13/9		
5	To implement various types of SET OPERATORS (UNION , INTERSECT, MINUS) On banking application				09-12-22	12/9		14/9/22	28/9		09-06-22	27/9		
6	Study and implementation all join Operators				19/9/22	26/9		21/9/22	12/10		13/9/22	4/10		
7	Prepare, E-R diagram, normalized database for given application				26/9/22	3/10		28/9/22	19/10		20/9/22	11/10		
8	Study with clause & create view, indices				10-03-22	10/10		10-12-22			27/9/22	18/10		
9	PL/SQL programs				10-10-22	17/10		19/10/22			10-04-22			
10	Application development (Database Connectivity)				17/10/2022			11-02-22			10-11-22			

Prof. Supriya Gupta

AC
Prof. S. Deote

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CCOEW/CE / 22-23

Date: 1/ 8 / 2022

LESSON & TEACHING PLAN for Computer Graphics

Department of Computer Engineering

Faculty Name: Prof. Abhilasha Borkar | Sub: Computer Graphics | Sec | Year : 2022-23 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
Skill Development(1/8/22 to 6/8/22)													
1	8 Aug -12 Aug	5	I	Geometry and line generation: points, lines, planes, pixels,frames buffers, types of display devices,aliasing , anti-aliasing and its techniques,DDA	CE5CGW01D10820L01 CE5CGW01D11820L02 CE5CGW01D12820L03 CE5CGW01D13820L04 CE5CGW01D14820L05	CG_ppt_01 CG_ppt_02		animated video should be shown	Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill. Pg.No. 6,7,8,66,70,74,75, 79,88,142-151		8|8 9|8 17|8 18|8 22|8		
2	17 Aug -20 Aug	6	I	Bresenham's algorithms for line generation,Bresenham's algorithm for circle	CE5CGW01D17820L06 CE5CGW01D18820L07 CE5CGW01D19820L08 CE5CGW01D20820L09 CE5CGW01D21820L10 CE5CGW01D22820L11	CG_ppt_03 CG_ppt_04		focus on numerical			23|8 23|8 24|8 29|8 30|8 31|9	Assignment-1 25|8.	
3	22 Aug -26 Aug	4	I	Bresenham's algorithm for circle generation .	CE5CGW01D24820L12 CE5CGW01D25820L13 CE5CGW01D26820L14 CE5CGW01D27820L15 CE5CGW01D28820L16	Kmlind		shape related algorithm should be solved	Procedural elements for		31|9 5|9 6|9 5|9 6|9		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
					CE5CGW01D29820L17				computer graphics by David F. Rogers, Mc-Graw Hill.Pg. No. 3,137-142,115,118,121,, 126,131,133,		7|9		
4	29 Aug - 3Sep	6	II	Graphics primitives: Display files, algorithms for polygon generation polygon filling algorithms:	CE5CGW01D31820L18			task to find out all the names of inventors who invent theses algorithm			8|9	8|9|21	
					CE5CGW01D01920L19						12|9		
					CE5CGW01D02920L20						13|9		
					CE5CGW01D03920L21						26|9		
					CE5CGW01D04920L22						27|9		
					CE5CGW01D05920L23						27|9		
5	5 sept-9 Sept	5	II	Simple ordered Edge list, Edge fill, Fence fill, Edge flag,Seed fill, Scan line Seed fill,	CE5CGW01D07920L24			solving numericals	Procedural elements for computer graphics by David F. Rogers Pg.No. 63,175,177,181,187,192,196,253		28|9		
					CE5CGW01D08920L25						29|9		
					CE5CGW01D09920L26						3|10	Assignment	
					CE5CGW01D10920L27						4|10	No.2	
					CE5CGW01D11920L28						5|10		
					CE5CGW01D12920L29						10|10		
6	12 Sept-16 Sep	5	III	NDCoperations on segments,data structures for segments and display files,window,viewport,viewing transformations,	CE5CGW01D14920L30			solving numericals			10|10		
					CE5CGW01D17920L31						11|10		
					CE5CGW01D18920L32						11|10		
					CE5CGW01D19920L33						18|10		
7	17 Sept-23 Sep	Sessional I											
8	26 Sept-1 Oct	5	III	Cohen-Sutherland,Cyrus-Beck Algorithm,Mid-point subdivision,Polygon clipping(Sutherland-Hodgeman)scaling,	CE5CGW01D28920L34			solving numericals			4|11		
					CE5CGW01D29920L35						9|11		
					CE5CGW01D30920L36						15|11		
					CE5CGW01D011020L37						15|11		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
					CE5CGW01D031020L38				Computer Graphics by Udit Agrawal		25/11		
9	3 oct-7 oct	5	IV	2D transformation: scaling,rotation,Translation,Rotation,Reflection,Shearing	CE5CGW01D051020L39			numerical practice			26/11		
					CE5CGW01D061020L40						16/11		
					CE5CGW01D071020L41						16/11		
					CE5CGW01D081020L42						17/11		
					CE5CGW01D091020L43						17/11		
					CE5CGW01D101020L44						17/11		
10	10 oct-15 oct	6	IV	3D Graphics:3D Transformation, parallel, perspective and isometric projections	CE5CGW01D121020L45				Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill.Pg.no. 375,343,474,476,482		21/11		
					CE5CGW01D131020L46						21/11		
					CE5CGW01D141020L47						21/11	Assignment No. 3	
					CE5CGW01D151020L48						24/11		
					CE5CGW01D161020L49						24/11		
					CE5CGW01D171020L50								
11	17 oct-21 oct	5	V	Hidden surfaces and line removal: Painter's, Z-buffer,Warnock's, Back-face Removal algorithm	CE5CGW01D191020L51								
					CE5CGW01D201020L52						24/11		
					CE5CGW01D211020L53						27/11		
					CE5CGW01D221020L54						27/11		
					CE5CGW01D231020L55						27/11		
12	24 Oct-28 Oct			Diwali Vacation									
					CE5CGW01D261020L57						28/11		
13	29 Oct -5 Nov	6	V	Curves and surfaces: Methods of interpolation,Bezier and B-splines	CE5CGW01D271020L58						28/11		
					CE5CGW01D281020L59						01/12		
					CE5CGW01D291020L60								

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
					CE5CGW01D311020L61								
14	07 NOV -11 NOV	4	V	Surface rendering Method:- Gouraurd Shading,Phone Shading	CE5CGW01D291020L62			numerical practice	Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill. Pg.No. 609,611,623,624,627,645		8/11		
					CE5CGW01D311020L63						8/11		
					CE5CGW01D291020L64								
					CE5CGW01D311020L65								
15	14 NOV -19 NOV			Constant Intensity Shading	CE5CGW01D311020L66						8/11		
16	21 NOV - 25 NOV			Constant Intensity Shading,Fast Shading	CE5CGW01D311020L67						8/11		03/12
17	28 NOV - 3 Dec	Sessional II											

Sub. Teacher

(Prof. A.T. Borkar)

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Kringa, Nagpur-441110

Faculty in Charge

HOD

CCOEW/CE/ 2022-2023 Date: 2 22

LESSON & TEACHING PLAN for Artificial Intelligence

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar Sub:Artificial Intelligence Year : 2022-2023 Se V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug - 12Aug	5	I	Introduction - Definition - Future of Artificial Intelligence	Given task to students find and make small application of AI	S. Russel, P. Norvig, "Artificial Intelligence – A Modern Approach", Third Edition, Pearson Education, 2015.		8/8/22		
				Characteristics of Intelligent Agents				9/8/22		
				Typical Intelligent Agents				10/8/22		
2	16 Aug- 20 Aug	5	I	Problem Solving Approach to Typical AI problems.	Given task to find various methods for search	S. Russel, P. Norvig, "Artificial Intelligence – A Modern Approach", Third Edition, Pearson Education, 2015.		17/8/22		
			II	Problem solving Methods - Search Strategies -				18/8/22		
				Uninformed - Informed - Heuristics				19/8/22		
	22 Aug- 26 Aug	4		Local Search Algorithms and Optimization Problems				22/8/22		

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WEEK No.	Week	No. of Lec	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link/Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link/Quiz or poll	Completion Date	Assignment/tutorial D	Sign
3			II					23/8/22		
					Given task to find various methods for search algorithm	S. Russel, P. Norvig, "Artificial Intelligence – A Modern Approach", Third Edition, Pearson Education, 2015.		26/8/22		
4	29 Aug- 3 Sept	5	II	Searching with Partial Observations				1/9/22		
								2/9/22		
				Backtracking Search				8/9/22		
5	5 sept- 9 sept	5	II	Performance of search algorithms.	Given more examples on predicate logic	Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)", Third Edition, McGraw Hill, 2017.		12/9/22		
								16/9/22		
			III	First Order Predicate Logic				20/9/22		
				Unification - Forward Chaining				27/9/22		
6	12 Sept- 17 Sept	5	III	Backward Chaining ,Resolution – Knowledge Representation using First order Predicate logic		Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)"		29/9/22		
7		**Sessional - I (17th Sept 2022- 23rd Sept 2022)**								
8	26 Sept- 1Oct	5	III	First order Predicate logic - Reasoning Systems.	Open up Questioning	Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)"		3/10/22		
								4/10/22		
								6/10/22		
9	3Oct - 7 Oct	5	IV	Planning with state-space search	Examples	Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)", Third		7/10/22		
				partial-order planning				10/10/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
9	3Oct - 7 Oct	3	IV	partial-order planning planning graphs -planning and acting in the real world	Examples	Intelligence (SIE)", Third Edition, McGraw Hill, 2017.		11/10/22 12/10/22		
10	10 Oct - 15 Oct	3		Plan generation systems.	MCQ's	Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)", Third Edition, McGraw Hill, 2017.		17/10/22 18/10/22		
11	17 Oct - 21 oct	3		Uncertainty - review of probability	seminars	Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)", Third Edition, McGraw Hill, 2017.		19/10/22 21/10/22 24/10/22		
12	31 Oct - 5 Nov	3	V	probabilistic Reasoning		Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)", Third Edition, McGraw Hill, 2017.		31/11/22 4/11/22 7/11/22		
13	7 Nov- 11 Nov	3		Bayesian networks - inferences in Bayesian networks	Open up Questioning	Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)"		9/11/22 10/11/22 11/11/22		
14	14 Nov-19 Nov	3		Temporal models - Hidden Markov models.	Examples	Kevin Night, Elaine Rich, Nair B., "Artificial Intelligence (SIE)", Third Edition, McGraw Hill, 2017.		14/11/22 15/11/22 22/11/22 24/11/22 25/11/22		
15	21 Nov-25 Nov	Revision								
16		Sessional II (28 Nov to 3 Dec)								

Sub. Teacher

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CCOEW/CE/2022-23

Date: 8/ 8 / 2022

LESSON & TEACHING PLAN for Enterprise Resource Planning

Department of Computer Engineering

Faculty Name: Prof..Abhilasha Borkar | Sub: Enterprise Resource Planning | Sec: | Year : 2022-23 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
Skill Development(1-8-22 to 6-8-22)												
1	8Aug -12 Aug	5	I	An overview, Business Processes,	FM_CS_ppt_01	EP_CS_V_01	Case studies on different erp software	Text Book of Enterprise System for managment by Livai F. Motiwalla 468-497		8/8/22		
				Introduction to ERP	FM_CS_ppt_01					9/8/22		
				basic ERP concepts,						10/8/22		
				benefits of ERP	FM_CS_ppt					10/8/22		
2	17 Aug-20 Aug	6		ERP and related Technologies	FM_MI_ppt_02	EP_MI_V_02				11/8/22		
				benefits of ERP	FM_hkl_ppt_03	EP_hkl_V_02				12/8/22		
				ERP Architecture	FM_hkl_ppt_04	EP_hkl_V_03				16/8/22		
										17/8/22		
3	22 Aug-26 Aug	4	II	Business Process re-engineering				Text Book of Enterprise System for managment by Livai F. Motiwalla 320-345		19/8/22		
				data - warehousing						22/8/22 23/8/22 24/8/22		
										25/8/22	Assignment 1	
4	29 Aug - 3 sept	6		data mining on the analytical processing supply chain management.			Case studies on different erp software			29/8 30/8		
				Example on supply chain Managment						30/8 31/8		

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5	5 sept - 9 sept	5	III	ERP Implementation: Basics				Text Book of Enterprise System for managment by Livai F. Motiwalla 534-345		24/8/22		
				lifecycle						30/8/22		
				package selection						31/8/22		
				transition strategies						5/9/22		
				Implementation Processes						6/9/22		
6	12 sept - 16 sept	5		Consultants, Vendors and Employees						7/9/22		
				after ERP Implementation						8/9/22		
7	17 sept - 23 sept			**Sessional I**								
				The Business Modules				Text Book of Enterprise System for managment by Livai F. Motiwalla 534-345		12/9/23		
8	26 sept - 1 Oct	5		Business modules in an ERP package						13/9/23		
				Finance, Manufacturing, Human Resource.						26/9/23		
										27/9/22		
			IV	Plant maintenance						28/9/22		
9	3 Oct-7 Oct	4		Material management,				Text Book of Enterprise System for managment by Livai F. Motiwalla 534-345		29/9/22		
				Quality management			Case studies on different erp software			3/10/22		
				Sales & distribution.						4/10/22		
				Selection of ERP						6/10/22		
10	10 Oct-15 Oct	5		SWOT analysis of various ERP products,						10/10/22		
			V					Text Book of Enterprise System for managment by Livai F. Motiwalla 534-345				
11	17 Oct-21 Oct	5		supply chain Enabled ERP.						11/10/22	Assignment 2	
				ERP and Electronic Data Interchange (EDI) integration,						18/10/22		
12	24 Oct-28 Oct			**Diwali Vacation**								
12	29 Oct -05 NOV	6		Enterprise Application Integration,						4/11/22		
										18/10/22		

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13	07 NOV - 11 NOV	5	VI	ERP in manufacturing Non-manufacturing Industries.		Case studies on different erp software	Text Book of Enterprise System for managment by Livai F. Motiwalla 534-345
14	14 NOV - 19 NOV	6		RIVISION		Case studies on different erp software	
15	21 NOV - 25 NOV	6		RIVISION			
16	28 NOV - 3 Dec	Sessional II					

Sub. Teacher

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Faculty in Charge

HOD

CCOEW/CE/ 2022-2023

Date: 27/ 07/ 2022

LESSON & TEACHING PLAN for Operating System

Department of Computer Engineering

Faculty Name: Prof. Sharayu Deote | Sub: Information Assurance and Cyber Security | Year : 2022-23 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug - 12Aug	5	I	Security fundamentals ,Introduction Terminology Attacks ,security goals : Authentication & Authorization		Cryptography & network security by William stalling		10/8/22		
				Ciber techniques:Substitution and Transposition Various algorithm and its implementation				19/08		
				Ciber techniques:Substitution and Transposition Various algorithm and its implementation						
2	16 Aug- 20 Aug	5	I	One time pad ,Modular Arithmatic ,GCD					Assign 01	
				stream cipher , secret splitting and sharing,block cipher, Tutorial				22/08		
				eclide algoriths, Chinese Remainder theorm ,						
				Descete Logarithm,Fermats Theorms Block generation & uses ,ECC						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	22 Aug- 26 Aug	4	I	Hash Algorithms: SHA-1,MD5		Cryptography & network security by William stalling		29/08	01	
4	29 Aug- 3 Sept	5	II	Cryptograhpy Symmetric key algorithm : DES,AES,Attacks on DES						
				Blowfish Algorithm,Modes of operations				09/09		
5	5 sept- 9 sept	5	II	Linear cryptanalysis and Differential cryptanalysis		Cryptography & network security by William stalling				
				Public key algorithm :RSA,Key Exchange Key Management Introduction,						
				Key Management: Generations, Distribution, Updation,				12/09		
6	12 Sept- 17 Sept	5	III	Digital Certificate, X.509 certificates, Digital Signature,D-H Algorithm				01/10		
7		**Sessional - I (17th Sept 2022- 23rd Sept 2022)**								
8	26 Sept- 1Oct	5	III	One Way Authentication,Kerberos,N/W Security					02	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
9	3Oct - 7 Oct	5	IV	Layer Wise Security Concerns,IPSEC- Introduction, AH and ESP,		Cryptography & network security by William stalling		03/10		
				Mode of opeeration ,Security Associations, SSL- Introduction,				08/10		
				Handshake Protocol, Record Layer Protocol.IKE-Internet Key Exchange Protocol.				10/10		
10	10 Oct - 15 Oct	5	IV	Intrusion Detection Systems: Introduction,		Cryptography & network security by William stalling		12/10	03	
				Anomaly based, Signature based and host based				15/10		
11	17 Oct - 21 oct	5	V	Security Management and Applications		Cryptography & network security by William stalling				
				Intruders, Intrusion detection, Password management,				21/10		
12	31 Oct - 5 Nov	5	VI	Worms, viruses, Trojans,Virus countermeasures, Firewalls,Firewall design Principals,Online transaction & attacks ,Cyber Crime & laws		Network Security by forozen		31/10 to 10/11		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
13 & 14	7 Nov- 20 Nov			Revision						
15				**Sessional II (28 Nov to 3 Dec)**						

Sub. Teacher

Ac

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CCOEW/CE/ 2022-2023 Date: // 07/ 2022

LESSON & TEACHING PLAN for Operating System

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar | Sub: Operating System | Year : 2021-22 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug - 12Aug	5	I	What is Operating System do(OS)	OS Installation	Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		8/8/2022		
				"Types of OS,Operating system services."	OS Installation			9/8/2022		
				User-operating system Interface, System calls, Types of system calls	C Prog			10/8/22 12/8/22		
2	16 Aug- 20 Aug	5	I	System programs,operating system structure, Virtual machines		Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		17/8/22		
				FILE SYSTEM: File concepts, Access methods	C Prog			18/8/22		
				Directory & Disk structure	GUI (windows)			19/8/22		
				File system Mounting,File sharing, protection File system structure,	C Prog	Opearting System Concepts by Avi		22/8/2022		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion	Assignment/Tutorial Date	AC's sign
3	22 Aug- 26 Aug	4	I	File system implementation, Directory implementation,Allocation method,Free-space management, Efficiency & performance, recovery	D-Frag (using windows Disk Management system tool)	Silberschatz, Galvin chapter 1, pg no 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		24/8/22 26/8/22		
4	29 Aug- 3 Sept	5	II	Process concept, process scheduling operations on process,interprocess communication	C Prog (message sending)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128		29/8/22 1/9/22		
				THREADING: Multithreaded programming overview,multithreading models.	Multithreding using JAVA			2/9/22		
5	5 sept- 9 sept	5	II	PROCESS SCHEDULING: Basic concepts.	C Prog (Using data structure)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257		5/9/22		
				scheduling criteria, scheduling algorithm.				8/9/22		
				multiprocessor scheduling algorithm evaluationithm.				12/9/22		
6	12 Sept- 17 Sept	5	III	PROCESS SYNCHRONIZATION: Background" critical section problem Peterson's solution,synchronization,	Algo using C	Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg no. 283-304		12/9/22 16/9/22 26/9/22		
7		**Sessional - I (17th Sept 2022- 23rd Sept 2022)**								
8	26 Sept- 1Oct	5	III	Hardware solution, semaphore monitors, classic problems of synchronization, types of semaphore.	Algo using C	Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg no. 283-304		27/9/22 28/9/22 29/9/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity / Virtual Lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
9	3Oct - 7 Oct	5	IV	DEADLOCKS: System model Deadlock characterization Methods for handling deadlocks Deadlock prevention,deadlock avoidance Deadlock detection Recovery from deadlock	(using spoon and plate)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257 Chapter 7, pg no. 283-304		3|10|22 4|10|22 5|10|22 7|10|22		
10	10 Oct - 15 Oct	5	IV	SECONDARY STORAGE STRUCTURE: Overview of mass storage structure,Disk structure. Disk attachment, Disk scheduling, Disk management Introduction to RAID structure swapping.	(using hard disk available in department)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396		11|10|22 12|10|22 13|10|22		
11	17 Oct - 21 oct	5	V	contiguous memory allocation paging structure of page table, segmentation VIRTUAL MEMORY MANAGEMENT: Background demand paging copy-on-write, page replacement, allocation of frames Thrashing, memory mapped file Allocating kernel memory	(using note book)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396		17|10|22 18|10|22 19|10|22 21|10|22		

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LESSON & TEACHING PLAN for Web Technologies

Department of Computer Engineering

Faculty Name: Prof. P. Gangwani | Sub: WT | Year : 2022-2023 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
1	Aug 8 - Aug 12	3	I	Introduction to Web Technologies, Web Essentials		"Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson - Chapter 1, Chapter 2, Chapter 3	8/8/22		
				client server communications			9/8/22		
				Web Browser, Markup Languages - HTML			10/8/22		
2	Aug 15 - Aug 20	2		Markup Languages - HTML,XHTML			17/8/22		
				SHTML, XML, simple XHTML page style sheets			18/8/22		
3	Aug 22 - Aug 26	4		Introduction to CSS, Need for CSS			22/8/22		
				basic syntax and extrusion, DHTML.			23/8/22		
				Discussion on university asked questions on unit I			24/8/22		
				Client side programming			24/8/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
4	Aug 29 - Sep 3	3	II	Java Script Language		"Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson - Chapter 4, Chapter 5	25/8/22		
				host objects: Browsers and the DOM - The Document tree, DOM event handling			29,30/8/22		
				AJAX.			1/9/22	① 5/9/22	
5	Sep 5 - Sep 9	4	III	JAVA Applets		"Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson - Chapter 6, Chapter 8	6/9/22		
				server side programming			7/9/22		
				Java Servlets - basics, simple program			8/9/22		
				Separating programming			12/9/22		
6	Sep 12 - Sep 17	4		separating programming and presentations			13/9/22		
				JSP basics			13/9/22		
				simple JSP pages.			13/9/22		
				Discussion on university asked questions on unit II & III			13/9/22		
19 Sep -23 Sep Sessional -I									
7	26 Sep - 1 Oct	4		Representing web data		"Web Technologies - A Computer Science	26/9/22		
				database connectivity			27/9/22		
				JDBC, Dynamic web pages			29/9/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
			IV	XML - XML schema		Perspective", 1st Edition, Jeffrey C. Jackson - Chapter 7	3/10/22		
8	3 Oct - 7 Oct	3		DTD			3/10/22		
				DOM, SAX			6/10/22		
				Parsing XML Document using DOM/SAX parser.			7/10/22		
				Email Tools			10/10/22		
9	10 Oct - 15 Oct	4		FTP Tools			10/10/22	(2) 14/10/22	
				WWW			17/10/22		
			V	TELNET		"Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson - Chapter 9	17/10/22		
				PUTTY			17/10/22		
10	17 Oct - 21 Oct	4		DNS			18/10/22		
				Web Services & Feeds - SOAP			18/10/22		
				Web Services & Feeds - RSS feeds.			18/10/22		
				Discussion on university asked questions on unit IV			18/10/22		
11	31 Oct - 5 Nov	4		Discussion on university asked questions on unit V			31/10/22	(3) 14/11/22	
				Building web Applications			14/11/22		
				Cookies sessions			15/11/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	Completion Date	Assignment/Tutorial Date	AC's sign
12	7 Nov - 12 Nov	3	VI	Open Source Environment		"Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates - Chapter 5	16/11/22		
				PHP - MySQL case studies			17/11/22		
				APACHE TOMCAT			17/11/22		
13	14 Nov - 18 Nov	4		Accessibility			24/11/22		
				Internationalization			24/11/22		
				Types of Web Attacks			28/11/22		
				Types of Intrusions.			30/11/22		
14	21 Nov - 25 Nov	4		Discussion on university asked questions on unit VI			30/11/22		
				PHP programming			30/11/22		
				PHP programming			30/11/22		
				PHP programming			30/11/22		
Sessional -II									

Faculty In-charge

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Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/CE/ 22-23 Date: 05/08/2022

LESSON & TEACHING PLAN for AMM

Department of Computer Engineering

Faculty Name: Prof. Harshwardhan Khanpate | Sub: Advance Microprocessor and Microcontrollers | Year : 2022-23 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition, No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	8Aug -12 Aug 2022	4	I	Overview	CE7AMPW01D230821L01	AMP_CE_PPT_01		Socratic Questioning	Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 417	https://docs.google.com/forms/d/e/1FAIpQLSfzcU8WK0CXqK66AtecW1z1SSWS7ZlNYxN	08/08		
				History of Microprocessors	CE7AMPW01D240821L02	AMP_CE_PPT_01		Socratic Questioning			10/08		
				Introduction to 32 bit processor	CE7AMPW01D250821L03	AMP_CE_PPT_01					11/08		
				Historical evolution of 80286,386 & 486 processor	CE7AMPW01D260821L04	AMP_CE_PPT_02					12/08		
2	15Aug -20 Aug 2022	4	I	Historical evolution of 80286,386 & 486 processor	CE7AMPW01D270821L05	AMP_CE_PPT_02			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 425-451		17/08		
				Historical evolution of 80286,386 & 486 processor	CE7AMPW02D300821L06	AMP_CE_PPT_02	AMP_CE_V_01				18/08		
				Real & Protected modes	CE7AMPW02D310821L07	AMP_CE_PPT_02					19/08		
				Segmentation, Paging Mechanism	CE7AMPW02D010921L08	AMP_CE_PPT_02	AMP_CE_V_01				20/08		
3	22Aug -26 Aug 2022	5	I	Segmentation, Paging Mechanism	CE7AMPW02D020921L09			Video	Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 453		22/08	Tutorial	
				Privilege mechanism	CE7AMPW02D030921L10		AMP_CE_V_02	Video			23/08		
				Protection mechanism	CE7AMPW02D040921L11	AMP_CE_PPT_03					24/08		
				Pipelining & task switching	CE7AMPW03D060921L12	AMP_CE_PPT_03					25/08		
				Task Switching	CE7AMPW03D070921L13	AMP_CE_PPT_04		Video			25/08		
4	29 Aug-2 Sept 2022	5	III	Pentium features	CE7AMPW03D080921L14	AMP_CE_PPT_04		Discussion	Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 453. Intel		26/08	01	
				Pentium architecture	CE7AMPW03D090921L15	AMP_CE_PPT_04					29/08		
				Pin Diagram of Pentium, Description	CE7AMPW04D140921L16	AMP_CE_PPT_04					30/08		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Pin Diagram of Pentium. Description	CE7AMPW04D150921L17				Microprocessors by Barry Brey. Pg. No. 729		01/09		
				Pentium real mode	CE7AMPW04D160921L18						02/09		
5	5 Sept-10 Sept 2022	5	II	Pentium RISC Features	CE7AMPW04D170921L19	AMP_CE_PPT_04			Intel Microprocessors by Barry Brey. Pg. No. 729		02/09		
				Pentium super-scalar architecture-pipelining	CE7AMPW04D180921L20	AMP_CE_PPT_04					05/09		
				Instruction pairing rules	CE7AMPW05D200921L21	AMP_CE_PPT_05		Pairing Activity			07/09		
				Branch prediction	CE7AMPW05D210921L22	AMP_CE_PPT_05					08/09		
				Instruction and data caches	CE7AMPW05D220921L23	AMP_CE_PPT_05					12/09		
6	12 Sept-16 Sept 2022	6	III	Floating unit	CE7AMPW05D230921L24	AMP_CE_PPT_05			Microprocessors and Microcontrollers 3-2		13/09		
				Basic Pentium programming	CE7AMPW05D240921L25	AMP_CE_PPT_05					14/09		
				Programmer's model	CE7AMPW06D270921L26	AMP_CE_PPT_05	AMP_CE_V_03				16/09		
				Register set	CE7AMPW06D280921L27						27/09		
				Addressing modes	CE7AMPW06D290921L28						28/09		
				Instruction set	CE7AMPW06D300921L29						29/09		
7	17 Sept - 23 Sept 2022			**Sessional I**									
8	26 Sept- 01 Oct 2022	6	III	Data Types in Pentium	CE7AMPW06D011021L30			Programming	Microprocessors and Microcontrollers 3-2		30/09	02	
				Data transfer instructions	CE7AMPW08D111021L31						01/10		
				Data transfer instructions	CE7AMPW08D121021L32	AMP_CE_PPT_06					03/10		
				Programs	CE7AMPW08D131021L33	AMP_CE_PPT_06					04/10		
				Programs	CE7AMPW08D141021L34	AMP_CE_PPT_06		Programming			04/10		
				Advanced Pentium programming	CE7AMPW08D161021L35	AMP_CE_PPT_06					06/10		
9	3 Oct-8 Oct 2022	4	IV	String instructions	CE7AMPW09D181021L36	AMP_CE_PPT_06			Microprocessors and Microcontrollers 3-27		07/10		
				Arithmetic instructions	CE7AMPW09D201021L37	AMP_CE_PPT_06					10/10		
				Arithmetic instructions	CE7AMPW09D211021L38	AMP_CE_PPT_06					11/10		
				Logical instructions	CE7AMPW09D221021L39			Programming			12/10	Tutorial	
10	10 Oct-15 Oct 2022	6	IV	Bit manipulations instruction	CE7AMPW10D251021L40	AMP_CE_PPT_07			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 555		13/10		
				Program transfer instructions	CE7AMPW10D261021L41	AMP_CE_PPT_07					14/10		
				Processor control instruction	CE7AMPW10D271021L42	AMP_CE_PPT_07					15/10		
				Programs	CE7AMPW10D281021L43	AMP_CE_PPT_07					18/10		
			V	8051 Micro-controller	CE7AMPW10D291021L44	AMP_CE_PPT_07					19/10		
				Micro-controller NCS-51 family architecture	CE7AMPW10D301021L45	AMP_CE_PPT_07					20/10		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	17 Oct-21 Oct 2022	5	V	On-chip data memory & program memory organization	CE7AMPW11D081121L46	AMP_CE_PPT_07			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 566		21/10		
				Register set, register bank	CE7AMPW11D101121L47	AMP_CE_PPT_07					31/10		
				SFR	CE7AMPW11D111121L48	AMP_CE_PPT_07					1/11		
				External memory & program memory	CE7AMPW11D121121L49		AMP_CE_V 04				02/11		
				Interrupt structure	CE7AMPW12D151121L50						03/11		
12	1 Nov-5 Nov 2022	5	V	Timers & their programming	CE7AMPW12D161121L51			Case study	Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 590		04/11	Assignment 03	
				Serial port & programming.	CE7AMPW12D171121L52						05/11		
				8051 micro-controller for various Applications	CE7AMPW12D181121L53						07/11		
				Overview of 8096 Micro-controller: General description	CE7AMPW12D201121L54						09/11		
				Processor section, on-chip data I/O section	CE7AMPW13D221121L55			Applications			10/11		
13	07 Nov-12 Nov 2022	4	VI	Basic software examples: using the 8096's processing section	CE7AMPW13D231121L56						11/11		
				Using the I/O section	CE7AMPW13D241121L57		AMP_CE_V 05				14/11		
				Overview of 8096 Micro-controller: General description	CE7AMPW13D251121L58						15/11		
				Processor section, on-chip data I/O section · Architecture	CE7AMPW13D221121L55						15/11		
14	14 Nov-19 Nov 2022	5	VI	Basic software examples: using the 8096's processing section ALU	CE7AMPW13D231121L56						16/11		
				Using the I/O section Pin diagram	CE7AMPW13D241121L57						17/11		
				Watchdog timer							18/11		
16	28 Nov- 03 Dec 2022	Sessional II											

Sub. Teacher

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Academic year

2021-22

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CCOEW/CE/ 2021-2022

Lab Practicals Plan

Department of Computer Engineering

Prof. Pinky Gangwani | **Data Structures** | **Year : 2021-22** | **Sem:- IV**

Pi	Name of experiment	Lab ID	Link for virtual lab	Batch B1 Planned Date	Batch B1 Perform Date	Batch B1 No. of Viva done and link for viva questions	Batch B2 Planned Date	Batch B2 Perform Date	Batch B2 No. of Viva done and link for viva questions	Batch B3 Planned Date	Batch B3 Perform Date	Batch B3 No. of Viva done and link for viva questions	Ac's Remark
1	Write a program in C to implement Binary search			23/3/2022	23/3/22		24/3/2022	24/3/22		21/3/2022	28/3/22		
2	Write a program in C to implement Bubble sort			30/3/2022	30/3/22		31/3/2022	7/4/22		28/3/2022	4/4/22		
3	Write a program in C to implement Stack using an array			6/4/2022	6/4/22		7/4/2022	21/4/22		4/4/2022	11/4/22		
4	Write a program in C to implement Queue using an array			13/4/2022	20/4/22		21/4/2022	28/4/22		11/4/2022	18/4/22		
5	Write a program in C to implement Infix to Postfix expression evaluation			20/4/2022	27/4/22		28/4/2022	28/4/22		18/4/2022	25/4/22		
6	Write a program in C to implement insertion and deletion on Singly linked			27/4/2022	18/5/22		12/5/2022	19/5/22		25/4/2022	16/5/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	18 Apr - 23 Apr	2	III	Stack and Queue - Array representation of stacks			Data Structures using C by Tanenbaum		1/4/22		
				Queues and Dequeue					4/4/22		
7	25 Apr-30 Apr	5		Circular queue					5/4/22		
				Polish notation					6/4/22		
				Implementation of stack using arrays					8/4/22		
				Application of stack & queue: Conversion from Infix to Postfix					11/4/22 12/4/22		
				Evaluation of postfix expressions,Priority Queues					13/4/22		
2 May-7 May Sessional -I											
8	9 May - 13 May	4	IV	Trees: Basic Terminology			Data Structures using C by Tanenbaum		23/5/22		
				Basic trees					23/5/22		
				Binary tree representations					23/5/22		
9	16 May - 21 May	5		threaded storage representation					26/5/22		
				binary tree traversals					24/5/22		
				binary search trees					24/5/22		
				Application of trees					24/5/22		
				Preliminary treatment of AVL Trees					26/5/22		
				B-Trees					26/5/22		
				Assignment no-2						23/5/22	
10	23 May - 27 May	4		Discussion on University asked Questions (2 Units)							
				Graphs: Definition & terminology					27/5/22		
				Graph representation: matrix representation of Graph					27/5/22		
				List of structure					27/5/22		
11	30 May- 4 June	5		other representation of graphs					27/5/22		
				Breadth First Search					30/5/22		
				Depth First Search					30/5/22		
				Spanning trees – Kruskal & Prims					31/5/22		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	6 June - 10 June	4	V	Shortest path algorithm			Data Structures using C by Tanenbaum		1/6/22		
				topological sorting							
				Critical path							
				Symbol Tables					20/4/22		
13	13 June-18 June	5		static tree tables					20/4/22		
				dynamic tree tables					20/4/22		
				hash tables					21/4/22		
				hash functions Division, Midsquare, Folding					22,25,26/4/22		27/04
				Assignment no-3						30/6/22	
14	20 June-24 June	4		~~Unit~~					—		
				Solve summer-19 Paper					14/6/22		
				Solve summer-18 Paper					15/6/22		
				Solve summer-17 Paper					15/6/22		
27 June-2 July Sessional -II											

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Lab Practicals Plan

Department of Computer Engineering

Prof. Pinky Gangwani				**Data Structures**			**Year : 2021-22**			**Sem:- IV**			
				Batch B1			**Batch B2**			**Batch B3**			
Pi	**Name of experiment**	**Lab ID**	**Link for virtual lab**	**Planned Date**	**Perform Date**	**No. of Viva done and link for viva questions**	**Planned Date**	**Perform Date**	**No. of Viva done and link for viva questions**	**Planned Date**	**Perform Date**	**No. of Viva done and link for viva questions**	**Ac's Remark**
1	Write a program in C to implement Binary search			23/3/2022	23/3/22		24/3/2022	24/3/22		21/3/2022	28/3/22		
2	Write a program in C to implement Bubble sort			30/3/2022	30/3/22		31/3/2022	7/4/22		28/3/2022	4/4/22		
3	Write a program in C to implement Stack using an array			6/4/2022	6/4/22		7/4/2022	21/4/22		4/4/2022	11/4/22		
4	Write a program in C to implement Queue using an array			13/4/2022	20/4/22		21/4/2022	28/4/22		11/4/2022	18/4/22		
5	Write a program in C to implement Infix to Postfix expression evaluation			20/4/2022	27/4/22		28/4/2022	28/4/22		18/4/2022	25/4/22		
6	Write a program in C to implement insertion and deletion on Singly linked ..			27/4/2022	18/5/22		12/5/2022	19/5/22		25/4/2022	16/5/22		

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CCOEW/CE/ 2021-2022

Lab Practicals Plan

Department of Computer Engineering

Prof. Pinky Gangwani | **Data Structures** | **Year : 2021-22** | **Sem:- IV**

				Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Lab ID	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
7	Write a program in C to implement the concept of Binary tree			11/5/2022	25/5/22		19/5/2022	26/5/22		9/5/2022	23/5/22		
8	Write a program in C to implement the concept of Binary Search tree			18/5/2022	25/5/22		26/5/2022	26/5/22		16/5/2022	23/5/22		
9	Write a program in C to implement the concept of Breath first search technique			25/5/2022	1/6/22		2/6/2022	1/6/22		23/5/2022	30/5/22		
10	Write a program in C to implement the concept of Depth first search technique			1/6/2022	1/6/22		9/6/2022	1/6/22		30/5/2022	30/5/22		

Subject Teacher

Ac

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Date: 07/03/2022

LESSON & TEACHING PLAN for Consumer Affairs

Department of Computer Engineering

Faculty Name: Dr. Priyadarshini Ramteke | Sub:Consumer Affairs | Sec: CE | Year : 2021-22 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	10 - 16 March	0		**Skill Development**								
2	17 - 19 March	1		Introduction about the subject						22/3/22		
3	21 - 25 March	3		Concept of consumers and markets						23/3/22		
			I	concept of retail price						24/3/22		
				whole sale price						25/3/22		
4	28 March - 1 April	3		maximum retail price,						29/3/22		
				local taxes,						30/3/22		
				fair price and packaging.						5/4/22		
				Activity						6/4/22		
5	4 - 8 April	3	II	Consumer protection act 1986						7/4/22		
				objectives and provisions						12/4/22		
6	11 - 16 April	2		Grievances redress mechanism under consumer protection act 1986						19/4/22 20/4/22		
				procedure for filing and hearing a complaint						21/4/22 28/4/22		

04/05

Ramteke

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Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
18 - 22 April	3	II	remedies, frivolous and vexatious complaints						11/5/22		
			offences and penalties.						12/5/22		
			Activity						17/5/22		
25 - 30 April	3	III	Industry regulations and consumer complaint redressal mechanism								
									18/5/22		
									19/5/22		
2 - 7 May	**Sessional - I Exam**										
9 - 13 May	3	III	Banking – RBI and banking ombudsman,						23/5/22		
			Advertising – ASCI						27/5/22		
16 - 21 May	3		Insurance – IRDA and insurance ombudsman						30/5/22		
			Telecommunication – TRAI,						4/6/22		
23 - 27 May	3		Food products – FSSAI						4/6/22		
			Activity						25/5/22		
30 May - 4 June	3	IV	Evolution of consumer movements in India						10/5/22		
			their role in consumer protection						8/6/22		
6 - 10 June	3		national consumer citizen charter						14/6/22		
			Activity						ASSIGNMENT		
13 - 18 June	3										
20 - 24 June	Internal Practical Exam										
27 June - 2 July	**Sessional II**										

Sub. Teacher

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Lab Practicals Plan

CCOEW/ Department of Computer Engineering

S.Khamankar		Sem:--IV			
	Sub:-- Operating System	Batch			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
print	print	print	fill	fill	fill
1	To study various steps of OS installation for windows 10 and find different types of OS	23/3/2022	23/3/2022	10	
2	Write a progrqam in C to simulate CPU scheduling algorithm by FCFS	04-07-22	6/4/22	25	
3	Write a progrqam in C to simulate CPU scheduling algorithm by SJF	21/4/2022	21/4/22	20	
4	Write a progrqam in C to simulate CPU scheduling algorithm by round robin	05-11-22	11/5/22	28	
5	Write a C program to simulate the following contiguous memory allocation Techniques Worst fit	05-12-22	12/5/22	30	
6	Write a C program to simulate the following contiguous memory allocation Techniques Best fit	25/5/2022	25/5/22	21	
7	Write a C program to simulate the following contiguous memory allocation Techniques by First Fit	25/5/2022	25/5/22	18	
8	Write a C program to simulate producer-consumer problem using Semaphores	06-01-22	16/22	23	

Sub-Teacher
S. Khamankar

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Academic - Co-ordinator
S. Deote.

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Date: 17/ 03 / 2022

CCOEW/CE / 21-22

LESSON & TEACHING PLAN for Operating System

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar | Sub: Operating System | Year : 2021-22 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	21 Mar-25 Mar	4	I	What is Operating System do(OS)				OS Installation	Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		17/3/22 17/3/22		
				"Types of OS,Operating system services,"				OS Installation			22/3/22 23/3/22 23/3/22		01/04
				User-operating system Interface, System calls, Types of system calls				C Prog			24/3/22 25/3/22		
2	28 Mar-1 Apr	4	I	System programs,operating system structure, Virtual machines					Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10		25/3/22		
				FILE SYSTEM: File concepts, Access methods				C Prog			30/3/22		
				Directory & Disk structure				GUI (windows)			30/3/22		
3	4 Apr-8 Apr	4	I	File system Mounting,File sharing, protection File system structure,				C Prog	Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		1/4/22 1/4/22		
				File system implementation, Directory implementation,Allocation method,Free-space management, Efficiency & performance, recovery				D-Frag (using windows Disk Management system tool)			4/4/22 5/4/22 6/4/22 7/4/22		12/04

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book- Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	11 Apr-15 Apr	4	II	Process concept, process scheduling operations on process,interprocess communication				C Prog (message sending)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128		12/4/22 ~~15.09.21~~ 13/4/22	1st Assign	
				PROCESS SCHEDULING: Basic concepts.				Multithreding using JAVA			15/4/22 ~~18.09.21~~		
5	18 Apr-22 Apr	4	II	scheduling criteria, scheduling algorithm.	CE7OSW05D240921L24	SCE_CE_ppt_05		C Prog (Using data structure)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257		20/4/22 ~~20.09.21~~ 21/4/22		09/05/22
				multiprocessor scheduling algorithm evaluationithm.							22/4/22 ~~22.09.21~~ 26/4/22		
				PROCESS SYNCHRONIZATION: Background" Critical section problem, Peterson's solution							27/4/22 ~~24.09.21~~ 28/4/22		
6	25 Apr-30 Apr	4	III	, Hardware solution, semaphore monitors , , classic problems of synchronization, types of semaphore.			OS_CE_V_01	Algo using C	Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg		28/4/22		
7		Sessional - I (02 May 2022-7 May 2022)											
8	9 May-13 May	4	III	THREADING: Multithreaded programming overview,multithreading models.			OS_CE_V_02	Algo using C	Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7. pg		10/5/22 11/5/22		
9	16 May-20 May	4	IV	DEADLOCKS: System model, Deadlock characterization Methods for handling deadlocks Deadlock prevention,deadlock avoidance Deadlock detection Recovery from deadlock			OS_CE_V_03	(using spoon and plate)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257 Chapter 7, pg no. 283-304		12/5/22 13/5/22		
							OS_CE_V_04						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book- Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
10	23 May-27 May	4	IV	SECONDARY STORAGE STRUCTURE: Overview of mass storage structure,Disk structure.				(using hard disk available in department)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396		25/5/22		
				Disk attachment, Disk scheduling, Disk management							31/5/22		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	30 May- 04 June	4	V	contiguous memory allocation paging structure of page table, segmentation VIRTUAL MEMORY MANAGEMENT: Background demand paging copy-on-write, page replacement, allocation of frames Thrashing, memory mapped file Allocating kernel memory				(using note book)	Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396		1/6/22 10/6/22		
12	6 June-10 June	4	V	SYSTEM PROTECTION: Goals of protection principles and Domain of protection Access Matrix implementation Access control Revocation of access Right	CE7OSW12D201121L54	SEC_CE_ppt_12		(unix system properties in windows)	Opearting System Concepts by Avi Silberschatz, Galvin Chapter 14 pg no. 591-610		13/6/22 talcen 2 lecture & one online lect.		

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LESSON & TEACHING PLAN for Engineering Physics

Department of Computer Engineering

Faculty Name: Prof.Shivani Mirase					Sub: System Programming			Year : 2021-22		Sem:- Iv
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	21-March 26-March	3	1	Introduction to IBM 360/370 & Assembler		Systems Programming (John Donovan) Ch 01 pg no 1-14, Ch 02 pg no 21,35, 43, Ch 03 pg no. 60-77	17	17-3-22		
				System Programming & its component				19-3-22		
				Machine Architecture				21-3-22		
2	28-March-31-March	3		Instruction Formats, Data Formats Data Formats				24-3-22		
				Register Formats, Concept of assembler				25-3-22		
				design of single pass and two pass assembler.				28-3-22		
3	4-April-9-April	3	2	Concept of macro		Systems Programming (John Donovan) pg no 60-77		29-3-22		
				macro call within macro				1-4-22		
				macro definition within macro				4-4-22		
4	11-April-16-April	3		recursive macro calls		Systems Programming (John Donovan) pg no 111-136		8-4-22	Assig 01	
				design of macro processor				11-4-22		
				Concept of Macro processor				12-4-22, 18-4-22		

04/05/22

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
5	18-April-23-April	3	3	Basic Loader functions,		Systems Programming (John Donovan) pg no 111-136		18-4-22 21-4-22		
				Loader schemes, "Complier and go" Loaders.				22-4-22		
				general Loader scheme				25-4-22		
6	25Apr-30April	3		subroutine linkages, relocating loaders				25-4-22 27-4-22		
				direct linking loaders, other loader schemes Binders,				28-4-22		
				linking loaders, Overlays				30-4-22		
7				**Sessional I**						
8	9April-14April may	3	3	absolute loaders.		Systems Programming (John Donovan) pg no 152-178		9-5-22		
				Design of a Direct – Linking loaders.				10-5-22		
				Dynamic Binders.				16-5-22	Assi-02	
9	16 May-21 May	4	4	Compiler – Phases of Compilers		Systems Programming (John Donovan) pg no 265,279		17-5-22		
				Overview of Databases				19-5-22		
				Algorithms required for all phases.				20-5-22		
				Role of lexical analyzer				21-5-22		
10	23 May-28 May	3		recognition of tokens				23-5-22		
				Study of LEX				26-5-22		
				Study of YACC.				27-5-22 28-5-22		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	1 June-4 June	3	5	Unix Device Drivers		. Unix Device drivers by George Pajani		1-6-22		
				Anatomy and Types				2-6-22		
				Device programming				4-6-22		
11	6 June-11 June			Installation		Unix Device drivers by George Pajani		6-6-22	AS 03	
				Incorporation of driver routines				10-6-22		
				Basic device operation				11-6-22		
12	13 June-18 June	3		Implementation with Line Printer		Unix Device drivers by George Pajani		16-06-22		
				device drivers for UNIX				17-06-22		
				Comparative study between device drivers				18-06-22		
13	20 June-24 June	3		Case study of Intel®64				21-06-22		
				IA-32 Processors				22-06-22		
				IA-3 2Basic architecture						

Sessional-II

Sub. Teacher

Ac

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LESSON & TEACHING PLAN for Engineering Physics

Department of Computer Engineering

Faculty Name: Prof. Shivani Mirase				Sub: Multimedia Sysytem(Ele-IV)			Year : 2021-2022		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	17Jan - 21jan	5	1	Introduction : Definition of multimedia - Multimedia Basics - Where to use Multimedia -Multimedia Elements		Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		17-1-22		
				Multimedia Applications Multimedia Systems Architecture: Multimedia Workstation Architecture - High resolution Graphic				18-1-22		
				Multimedia Architecture Based on interface bus - Network architecture for Multimedia systems.	Open up Questioning			19-1-22		
				Evolving Technologies For Multimedia Systems: Hyper Speech - HDTV and UDTV				20-1-22		
				3-D Technologies and Holography - Virtual Reality -Video conferencing.				21-1-22		
				Hardware: Macintosh Versus Windows Platform – Connections -Memory and Storage Devices -Input Devices -		Fundamental of		24-1-22		

24/1/22

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	24 Jan - 28 Jan	4	II	Output Hardware - Communication Devices Basic Software Tools : Text Editing - Word Processing - OCR Software -		Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		25-1 22		
				Painting and DrawingTools - 3D Modeling and Animation Tools - Image Editing - Sound Editing.				27-1 22		
				Animation – Video Digital Movie tools Word Processors - Spreadsheet				28-1 22		
3	1 Feb - 4 Feb	4		Movie Editors - Compressing Movie Files Making instant Multimedia	For Understanding The Concept of Multimedia, And Multimedia Tools	Computer Graphics Multimedia and Animation - Malay K. Pakhira PHI , New Delhi - Second edition		31-1 22		
				Making instant Multimedia : Linking Multimedia Object – office suites- – databases				1-01-22		
				presentation tools – power point Multimedia authoring tools				2-2 22		
				Types of authoring tools – card and page based authoring tools – Icon based authoring tools –Time based authoring tools.				3-2 -22		
		5		Text: - Using Text in Multimedia - Designing with Text Hypermediaand Hypertext - The Power of Hypertext		Fundamental of		4-2 2022		
				Using Hypertext - Hypermedia Structures - HypertextTools, Images: Making Still Images – Bitmaps - 1 bit images				8-2 -2022		

9/2
10/02

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	8 Feb - 11 Feb		III	8-bit gray level images - 8-bit color images- Dithering- - Vector Drawing - Vector-Drawn Objects		Multimedia - Ze-Nian Li & M. S. Drew ,PHI		9-2-2022		
				{vs.}Bitmaps- 3-D Drawing and Rendering – Color - Understanding Natural Light and Color -Computerized Color - Color Palettes - Color Look-up table.				10-2-2022		
				Sound : The Power of Sound - Digital Audio - Making Digital Audio Files - MIDI Audio - MIDI vs. Digital Audio				11-2-2022		
5	14 Feb-18 feb	5		Multimedia System Sounds - Adding Sound to Your Multimedia Project - Audio Recording - Keeping Track of Your Sounds				14-2-2022		
				Audio CDs - Sound for Your Mobile - Sound for the Internet. Animation: the Power of Motion- Principles of Animation				15-2-2022		
				Animation by Computer –Animation Techniques. Video: Using Video- How Video Works and Is Displayed - Analog Video				16-2-2022		
				DigitalVideo, Displays - Digital Video Containers – Codec				17-2-2022		
				Video Format Converters - Obtaining Video Clips - Shooting and Editing Video.				18-2-2022		
6				Sessional I						

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	28 Feb-4 Mar	4	IV	Data Compression: Need for Data compression - General Data compression Scheme - Compression standards - Non-lossy compression for images	p[erform Activity in lossy Compression	Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		25-02 2022		
				Lossy compression for Photographs and video - Hardware Vs Software Compression.				28-02 2022		
				Binary image compression, Color, Gray Scale image compression - JPEG, video image compression				2-3 2022		
				Requirements for Full-motion Video Compression – MPEG - Audio compression - Fractal compression - advantages / disadvantages.				3-3 2022		
8	7 feb to 11 Mar	5	V	Data and File Format Standards: Popular File Formats - RTF, RIFF, GIF, PNG, TIFF, MIDI,		Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		4-3 2022		
				JPEG, JFIF, AVI,WAV, BMP,WMF, MIX, MPEG standards - TWAIN.				7-3 2022		
				Multimedia Databases,Storage and Retrieval				8-3 2022		
				Database Management systems - Database Organization				9-3 2022		
				Transaction management for multimedia systems				10-3 2022		
9	14 mar-17 mar	4		Multimedia Skills: The Team - Project Manager				11-03 2022		
				Multimedia Designer - Interface Designer				14-03 2022		
				Writer - Video Specialist				16-03		

04/05

HOD

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CCOEW/CE / 2021-2022

Date: 29/ 12 / 2021

LESSON & TEACHING PLAN for Distributed System & Grid Computing

Department of Computer Engineering

Faculty Name: Prof. S.Khamankar | Sub: DSGC | Sec: | Year : 2021-2022 | Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	17 Jan-21 Jan	5	I	Motivation and goals Overview and advantages of DS		DSGC-01	DSGC-V1-01	Plan to divide class into at least two group and announce a competition for most points on a practice test. Let them study a topic together and then give that quiz, after each round,let them study the			17/1/22		
				Characteristics-Absence of global clock							18/1/22		
				State (Local and Global), Possibility of large network delays							19/1/22		
				Scalability, security							20/1/22		
				Resource management							21/1/22		
2	24 Jan-29Jan	5	II	Time and Global States-Introduction		DSGC-02	DSGC-V1-02	for understanding the concept of clock synchronization …forming the group of 5 student and setting the clock			24/1/22		
				Clocks,Events and process states							25/1/22		
				Synchronizing Physical clocks							27/1/22		
				Logical time,Logical clocks							28/1/22		
				Global states							28/1/22		
				Distributed debugging							31/1/22		

28/1/22

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	31 Jan-5 Feb	5		Coordination				and dictacting the message to each group and let them synchronise with that message			31/1/22		
				Agreement							31/1/22		
				Distributed mutual exclusion							1/2/22		
4	7 Feb-11 Feb	5		Token based algorithm		DSGC-03					3/2/22	Assignment 1	
			III	Lamports Algorithm			DSGC-V1-03	for understanding the concept of shared memory board consider as a shared memory and student allow to write anything on it like message ,note etc.	"Distributed Operating system" M.A.Ansari chap 6		3/2/22		
				Ricart Aggrwala Algorithm							4/2/22		
				Suzuki Kasamis Algorithm							5/2/22		
				Raymond Tree based and Singhal herustics algorithm							5/2/22		
5	14 Feb-19 Feb	5		Introduction							9/2/22		
				Distributed file systems, Design issues							9/2/22		
				Distributed Shared Memory							10/2/22		
				Introduction to middleware technology							10/2/22		
21 Feb-25 Feb Sessional -I													
7	28 Feb-5 Mar	5	III	Design issues				CORBA is middelware and mostly used technology so giving the student middelware as a	Distributed		14/2/22		
				Implementation issues							15/2/22		
				CORBA Case Study							16/2/22		

15/02/2022

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Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				RMI-Remote Method Invocation		DSGC-03	DSGC-V1-03	topic and study it and do anylysis why corba is popular	system consept and design forth edition by George Coulouris. Chap 8,18		17/2/22		
				CORBA services							18/2/22		
8	7Mar-11 ~~Apr~~ MAR	4	IV	Grid Computing							28/2/22		
				Grid Computing models							2/3/22		
				Protocols, Types of Grid							3/3/22		
				Desktop Grid,cluster grid							3/3/22		
				HPC Grid,Data Grids							4/3/22	Assignment	
				Message Passing Interface (MPI)				understanding the concept of grid computing by real time example of solar plant	"Grid Computing" Ahmar Abbas PDF from Internet		7/3/22		
9	14 Mar-19 Mar	5		Procedures,							9/3/22		
				Arguments ,Data Types							10/3/22		
				Processes ,Platform independence							11/3/22 14/3/22		
			V	Error Handling							15/3/22	Assignment 3	
				Point-to-Point Communication							16/3/22		
				Collective Communication							17/3/22		
				Error Handling		DSGC-05	DSGC-V1-05	for message passing student will chat on whats app..one to one there will be message passing one to all there will be collective	John.Rittinghouse "Cloud Computing " PDF from Internet		19/3/22		
10	21 12 ~~Apr~~-27 ~~Apr~~ Apr	5		Platform independence							22/3/22		
				Process Technologies									
				Introduction of cloud computing							28/3/22		
				Characteristics,Benefits of cloud									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no.edition No.	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	21 Mar-25 Mar	5	VI	Cloud models				communication..i	John.Rittinghouse "Cloud Computing " PDF from Internet		24/3/22		
				Service models : IaaS, PaaS, SaaS									
				Deployment models		DSGC-06	DSGC-V1-06	plan to give them case study on cloud			25/3/22		
				Public cloud									
12	28 Mar-31 Mar	5		Private cloud									
				Hybrid cloud									
				Community cloud									
				Cloud Architecture									
				Rivision									

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LESSON & TEACHING PLAN for Engineering Physics

Department of Computer Engineering

Faculty Name: Prof. Shivani Mirase				Sub: Multimedia Sysytem(Ele-IV)				Year : 2021-2022		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	17Jan - 21jan	5	1	Introduction : Definition of multimedia - Multimedia Basics - Where to use Multimedia -Multimedia Elements		Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		17-1-22		
				Multimedia Applications Multimedia Systems Architecture: Multimedia Workstation Architecture - High resolution Graphic				18-1-22		
				Multimedia Architecture Based on interface bus - Network architecture for Multimedia systems.	Open up Questioning			19-1-22		
				Evolving Technologies For Multimedia Systems: Hyper Speech - HDTV and UDTV				20-1-22		
				3-D Technologies and Holography - Virtual Reality -Video conferencing.				21-1-22		
				Hardware: Macintosh Versus Windows Platform – Connections -Memory and Storage Devices -Input Devices -		Fundamental of		24-1-22		

04/02

Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	8 Feb - 11 Feb		III	8-bit gray level images - 8-bit color images- Dithering- - Vector Drawing - Vector-Drawn Objects		Multimedia - Ze-Nian Li & M. S. Drew ,PHI		9-2-2022		
				{vs.}Bitmaps- 3-D Drawing and Rendering – Color - Understanding Natural Light and Color -Computerized Color - Color Palettes - Color Look-up table.				10-2-2022		
				Sound : The Power of Sound - Digital Audio - Making Digital Audio Files - MIDI Audio - MIDI vs. Digital Audio				11-2-2022		
5	14 Feb-18 feb	5		Multimedia System Sounds - Adding Sound to Your Multimedia Project - Audio Recording - Keeping Track of Your Sounds				14-2-2022		
				Audio CDs - Sound for Your Mobile - Sound for the Internet. Animation: the Power of Motion- Principles of Animation				15-2-2022		
				Animation by Computer –Animation Techniques. Video: Using Video- How Video Works and Is Displayed - Analog Video				16-2-2022		
				DigitalVideo, Displays - Digital Video Containers – Codec				17-2-2022		
				Video Format Converters - Obtaining Video Clips - Shooting and Editing Video.				18-2-2022		
6				Sessional I						

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	28 Feb-4 Mar	4	IV	Data Compression: Need for Data compression - General Data compression Scheme - Compression standards - Non-lossy compression for images	p[erform Activity in lossy Compression	Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		25-02 2022		
				Lossy compression for Photographs and video - Hardware Vs Software Compression.				28-02 2022		
				Binary image compression, Color, Gray Scale image compression - JPEG, video image compression				2-3 2022		
				Requirements for Full-motion Video Compression – MPEG - Audio compression - Fractal compression - advantages / disadvantages.				3-3 2022		
8	7 feb to 11 Mar	5	V	Data and File Format Standards: Popular File Formats - RTF, RIFF, GIF, PNG, TIFF, MIDI,		Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		4-3 2022		
				JPEG, JFIF, AVI,WAV, BMP,WMF, MIX, MPEG standards - TWAIN.				7-3 2022		
				Multimedia Databases,Storage and Retrieval				8-3 2022		
				Database Management systems - Database Organization				9-3 2022		
				Transaction management for multimedia systems				10-3 2022		
9	14 mar-17 mar	4		Multimedia Skills: The Team - Project Manager				11-03 2022		
				Multimedia Designer - Interface Designer				14-03 2022		
				Writer - Video Specialist				16-03		

04/05

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
8	10/05/22 11/05/22	3	3	XML Parsere, Database.							11-05-2022	10-05-2022	
9	16/05/22 18/05/22	3	4	Validation: Uderstanding Validation, The Validatin controls Rich Controls.					Complete Reference HTML CSS Fith Edition		18-05-2022		
10	23/05/22 25/05/22	3		The calender AdRotator, Pages with Multiple view.							25-05-2022		
11	30/05/22 01/06/22	3		User controles and Graphics Dynamic Graphics.					Complete Reference HTML CSS Fith Edition		01-06-2022		
	06/06/22 08/06/22	3	5	Styles, Themes and Master Pages: Styles, Master page basics							08-06-2022		
	13/06/22 15/06/22	3		Direct Data Access, Single value data binding, Tepeated value Data Binding, Website Security.					Complete Reference HTML CSS Fith Edition		15-06-2022		
12	20/06/22 22/06/22	3		ASP.net Security Model, Forms Authentication Windows Authentication.							~~18~~-06-2022	~~18~~-06-2022	
13				**27/06/22 to 02/07/22**				**Sessional - II**					

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Subject Teacher

AC

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	09 Sept			Equivalence between two FSM's	4	t_03			Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 60 to 77		09/09		
4	13 Sept - 18 Sept	5	I	Moore and Mealy machines	CE5TOCW04D180921L19	MO_CE_ppt_04		(Uisng 2D Arrays)					
				Interconversion between Moore and Mealy machines.							18/09		
5	20 sep-24 sept	5	II	Introduction to Regular languages and Regular expression Regular set, Regular Expression and Regular languages smaple examples.	CE5TOCW05D240921L24	RE_CE_ppt_05		(set Theory)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 79 to 105		24/9		05/10
				Regular expression examples. Equivalence and Inter Conversion between Regular Expression and FA.									
				Identity rules and manipulation of Regular Expression Interconversion of RE and FA.				(De morgans Law)			02/10		
6	27 Sept-02 Octo	5	II	Interconversion of RE and FA. Closure Properities of Regular set and Chomsky Hierarchy.	CE5TOCW06D021021L29	REFA_CE_ppt_06							
7		**Sessional - I (04 Octo to 09 Octo 2021)**											
8	11 Octo to 16 Octo	5	II	Conversion from RE to RG and Right Linear to Left LinearConversion from Regular Grammar to FA, conversion for Left to Right linear Grammar Pumping Lemma for Regular Grammar.	CE5TOCW08D161021L34	RG_CE_ppt_08			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No.105 to 154				
9	18 Octo	5	III	Introduction to CFG and derivation Trees. Left Derivation Tree and Right Derivation Tree.	OCW09D2310	CFG_CE_pp		(using data structure STACK)	Introduction to Automata Theory, Languages, and Computation 3rd				

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LESSON & TEACHING PLAN

Department of Computer Engineering

Faculty Name: Supriya Gupta						Sub: Expert System Design (Ele-IV)			Year : 2021-22		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	17 jan - 21 Jan	5	I	Introduction : Expert system and AI		Open up Questioning	Principal of Expert Systems by Peteer and linda		17/1/22 18/1/22		
				Characteristics of ES		details of AI			19/1/22		
				Expert system structure		University paper			20/1/22		
				hurestics reasoning					20/1/22		
				user interface		Examples			21/2/22		
				logic and resolution propositional logic					24/1/22		

21/2/22

10/02/22

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	24 jan-29 jan	5	II	first order predicate logic		Machine learning discussions	Principal of Expert Systems by Peteer and linda		25/1/22		
				causal logic form of logic				2 lec	25/1/22		
				resolution and propositional logic					27/1/22	Assignment 01	
				resolution and first order predicate logic (PNF)					28/1/22		
3	31 jan-5 feb	5	II	resolution strategies			Principal of Expert Systems by Peteer and linda		31/1/22	Tutorial	
				resolution strategies PNF skolemization				2 lec	31/1/22		
				inference rules Resol^n with logic					2/2/22 1/2/22		
				inference rules					4/2/22		
				Production Rules and Inference			Principal of		3/2/22 4/2/22		
				Knowledge representation in a production system					8/2/22		

Faculty in Charge

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Date: 10/ 01 / 2022

CCOEW/CE/ 21-22

LESSON & TEACHING PLAN for UNIX AND SHELL PROGRAMMING

Department of COMPUTER ENGINEERING

Faculty Name: Prof. SHAILESH SAHU							Sub: Unix and Shell Programming			Sec: -	Year : 2021-22		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
1	10/01/22 15/01/22	6	1	General Overview of the system: System Structure (Architecture of UNIX Systems). User Perspective (The file system, Processing Environment.)	CE8USPW01D 060221L01	USP-SS-PPT1			The Design of Unix Operating System by- M.J Bach (4-36)		21-01-2022		
2	17/01/22 21/01/22	5		(Building Block Primitives),Operating systems services.Assumption about hardware (Interrupts and Exceptions, Processor Execution Levels, Memory Management).				UNIX COMMANDS					
3	24/01/22 29/01/22	5	2	Introduction to kernel: Architecture of the UNIX Operating System (Block Diagram of the system Kernel). Introduction to system Concepts (An Overview of the File Subsystem,Processes-State and Transitions). Kernel data structures,System administration.	CE8USPW01D 200221L12	USP-KA-PPT2					05-02-2022	01/02/2022	

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01/09/2024 11:38

AC

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
4	31/01/22 05/02/22	6		The Buffer cache: Buffer headers, structure of Buffer pool, Scenarios for retrival of a buffer.(Scenarios no. 1 to 5) Reading and writing disk blocks. Tutorial.					The Design of Unix Operating System by- M.J Bach (38-56)				
5	07/02/22 11/02/22	5	3	Internal representation of files: Inodes (Definition, Accessing Inodes, Releasing Inodes).Structure of regular files.	CE8USPW01D 060321L23	USP-BC-PPT3		C PROGRAM	The Design of Unix Operating System by- M.J Bach (38-56)		11-02-2022		
6	14/02/22 19/02/22	6	3	Directories.conventions of a path name of nodes (Algo-namei). Super block.Inode assignment to a new file (Algo-ialloc). Allocation of a disk block, other file types. Tutorial.	CE8USPW01D 120321L29	USP-IN-PPT4		C PROGRAM	The Design of Unix Operating System by- M.J Bach(67-88)		19-02-2022		
7				**21/02/22 to 26/02/22**					**Sessional - I**				
8	01/03/22 05/03/22	5	4	System calls of the file systems: Open, Read,Write. File and record coding seek.close, file creation, creation of special fileschange directory, root, mode and owner. stat, fstat, pipes, dup mounting and unmounting file system, File system abstraction and maintenance. Tutorial.	CE8USPW01D 260321L34	USP-IN-PPT4		UNIX COMMANDS	The Design of Unix Operating System by- M.J Bach(67-88)		05-03-2022	(2) 01/03/2022	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
9	07/03/22 11/03/22	5	5	The structure of the Processes:Process states and transitions Layout. Layout of System memory, Contex of the process, saving the contex of the process.	CE8USPW01D030421L39	USP-FSC-PPT5		C PROGRAM	The Design of Unix Operating System by- M.J Beach (91-140)		11-03-2022		
10	14/03/22 19/03/22	6	5	Manipulation of the process address space, sleep. Process control-Creation. Signal, termination, awaiting process termination, Invoking other programms. UID of a process, changing size of process,The shell, the system boot and the INIT process. Tutorial.	CE8USPW01D090421L45	USP-FSC-PPT9		C PROGRAM			19-03-2022		
11	21/03/22 25/03/22	5	6	Interprocess Communication: Process tracing, System V IPC.Network communications, sockets. Managing the system and network connection in any LINUX version: Monitoring resources, Mastering Time.	CE8USPW01D170421L50	USP-SP-PPT10		C PROGRAM	The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)		25-03-2022		09/04
12	28/03/22 31/03/22	4	6	Managing boot process, Controlling startup and Run levels. Configuring networks from the GUI, Managing Network Interface cards, Connections: using wireless connections, Troubleshooting network problems. Tutorial.	CE8USPW01D230421L56	USP-PC-PPT11		C PROGRAM AND UNIX COMMANDS	The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)		31-03-2022	3 26/03 2022	
13				04/04/22 to 09/04/22					Sessional - II				

Subject Teacher

Dr. Milind Khanapurkar
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Nagpur-441110

AC

LESSON & TEACHING PLAN for Bio-Informatics & Cyber Security

Department of Computer Engineering

Faculty Name: Prof. Sharayu Deote						Sub: Bio-informatics and cyber Security(Ele-IV)			Year : 2021-22		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10 Jan - 14jan	5	I	Introduction : History of Bioinformatics, Bioinformatics application		Open up Questioning	Will talk to Nursing College		18/01/21		
				Biological information resources							
				retrieval system							
				Knowledge Discovery and							
				data mining , data chracteristic		Examples					
				and presentation		Security regarding issues faced by					
				Protein Information Resources: Biological databases, P					18/01/22		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	17 Jan - 21 Jan	5	I	Primary sequence database		issues faced by girls	Cryptography & network security by William stalling				
				ptorein sequence database						Assignment 01	
				Secondary database							
3	24 jan - 29 jan	5	II	Protein database			Cryptography & network security by William stalling			Tutorial	
				Quantitive randomness					24/01		
				data analysis tool selective							
				Structure classification DB							
4	31 Jan - 05 Feb	5	I	Data mining and pattern matching Methods		GD on implementation of algorithm					
				Technology overview,							
				infrastructure							
				pattern recognition &							
				discovery,machine learning,					05/02		

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
5	7 Feb-11 feb	5	III	text mining & tools							
				dot matrix analysis							
				Substitution matrix							
				, dynamic programming, multiple sequen					07/02		
				Modeling, Simulation & Collaboration Drug discovery							
6	14 Feb-19 Feb	4		fundamentals, protein structure,							
				System biology, collaboration & communications,		Disscussion online frauds					
				standards, Issues.							
				Bioinformatics tools Introduction					11/02		
7				**Sessional I** 21/02 to 25/02							
8	21 Feb-25 Feb	5	IV	working with FASTS		N/w Security			14/02		
				working with BLAST,							
				FASTA							
				BLAST algorithm					19/02		
				comparison.							
				Pre-requisites in information and network security							

Faculty in Charge

Dr. Milind Khamapurkar
Principal

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Overview of Networking Concepts							
				Conceepts information security							
				Network Based Systems.					28/02	Tutorial	
10	7 mar-11 mar	6	V	Security threats and vulnerabilities			Cryptography & network security by William stalling				
				Cryptography / Encryption,							
				Security management							
				Encryption techniques							
				RSA &							
				D-H ,DES					11/03		
11	14 Mar-19 Mar	5	VI	Information and network security							
				Intruders							
				Intrusion detection,							
				Password management,							
				Server management system					18/03		

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	21 Mar - 25 Mar	5	VI	Security for VPN andTechnologies						Ass 03	
				Next Generation							
				Security : Security Architectures,					25/03		
				System Security, OS Security ,							
				Wireless Network and Security							
		Sessional-II									

Sub. Teacher

Ac

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	25 Apr-30 Apr	5		operand-size and address-size attributes					12/4/2022		
				Operand addressing					13/4/2022		
				Discussion on University asked Questions (3 Units)					18/4/2022		22/04
				Assignment no-3					18/4/22		
2 May-7 May Sessional -II											

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Faculty in Charge

HOD

A.C

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	24 Jan - 28 Jan	4	II	Output Hardware - Communication Devices Basic Software Tools : Text Editing - Word Processing - OCR Software -		Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI		25-1 22		
				Painting and DrawingTools - 3D Modeling and Animation Tools - Image Editing - Sound Editing.				27-1 22		
				Animation – Video Digital Movie tools Word Processors - Spreadsheet				28-1 22		
3	1 Feb - 4 Feb	4		Movie Editors - Compressing Movie Files Making instant Multimedia	For Understanding The Concept of Multimedia, And Multimedia Tools	Computer Graphics Multimedia and Animation - Malay K. Pakhira PHI , New Delhi - Second edition		31-1 22		
				Making instant Multimedia : Linking Multimedia Object – office suites- – databases				FOI-22		
				presentation tools – power point Multimedia authoring tools				2-2 22		
				Types of authoring tools – card and page based authoring tools – Icon based authoring tools –Time based authoring tools.				3-2 -22		
		5		Text: - Using Text in Multimedia - Designing with Text Hypermediaand Hypertext - The Power of Hypertext		Fundamental of		4-2 2022		
				Using Hypertext - Hypermedia Structures - HypertextTools, Images: Making Still Images – Bitmaps - 1 bit images				8-2 -2022		

70/02

Faculty in Charge

HOD

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Lab Practicals Plan

CCOEW/ Department of Computer Engineering

S.Khamankar					DSGC				Department: CE			Sec tio
					Batch B 1			Batch B 2				
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
print	print				print	fill	fill	print	fill	fill	fill
1	Write a program in JAVA for implementing client server communication model		For each practical I created extra practical list which I mailed to students for variations	Given task then to find various editior in which they can perform the practical	17/1/24	17/1		18/1/24	18/1		
2	Write a program to implement the concept of Lamport's clock in C.				24/1	24/1		25/1	25/1		
3	Write a program to implement the concept of Vector's clock in C				31/1	31/1		1/2	1/2		
4	Write a program in C to implement simulation of distributed mutual exclusion .				7/2	7/2		8/2	8/2		
5	Implement "JAVA RMI" mechanism for accessing method of remote system				14/2	14/2		15/2	15/2		
6	Implementation of CORBA mechanism.				21/2	21/2		22/2	22/2		

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7	To study guidelines toolkit for modeling and simulating grid computing environment		28/2	28/2		1/3	1/3	
8	Installation and configuration of Hadoop		7/3	7/3		8/3	8/3	
9	Develop a web page to play video file using <Embed> Tag.		14/3	14/3		15/3	15/3	
10	Squid installation and configuration		21/3	21/3		22/3	22/3	

Subject-Teacher

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CCOEW/CE / 21-22

Date: 01/ 2 / 2022

LESSON & TEACHING PLAN for Software Engineering and Project Management

Department of Computer Engineering

Faculty Name: Prof. Abhilasha Borkar							Sub: SEPM		Sec	Year : 2021-22		Sem:- VI
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	1 Feb - 5Feb	6	I	Introduction,CO Discussion evolving role of software software characteristics software myths software process,software engineering software development phases	CE6SEPMW01D01221L01	SEPM_ppt_01		Using various examples for models	"Pressman R., ""Software Engineering, A Practitioners Approach"", Tata MCGraw Hill Publication pg 34,36,45,53,54,71, 79,80,81,83,86,88, 106,110"		1|2		
					CE6SEPMW01D02221L02						2|2		
					CE6SEPMW01D03221L03						3|2		
					CE6SEPMW01D04221L04						4|2		
					CE6SEPMW01D05221L05						4|2	11|2	
					CE6SEPMW01D06221L06						4|2		
2	7 Feb -11 Feb	5		waterfall model,RAD model prototype model incremental model spiral model,WINWIN spiral model,concurrent,agile process	CE6SEPMW02D08221L07	SEPM_ppt_02					7|2		
					CE6SEPMW02D09221L08						8|2		
					CE6SEPMW02D10221L09						9|2		
					CE6SEPMW02D11221L10						10|2		
					CE6SEPMW02D12221L11						11|2		
3	14 Feb - 19 Feb	6	II	System Engineering: Hierarchy Business Process and Product Engineering: Overview Requirements Engineering,Initiating the process, Eliciting	CE6SEPMW03D15221L12	SEPM_ppt_03		Actiity and state diagram for any problem statement	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 157-162,176,181,184,196,208,218,226,233		14|2		
					CE6SEPMW03D16221L13						15|2		
					CE6SEPMW03D17221L14						16|2		
					CE6SEPMW03D18221L15						17|2		
					CE6SEPMW03D19221L16						18|2		
					CE6SEPMW03D20221L17						21|2	7|3.	
4	21 Feb - 25 Feb	5		Negotiating, Validatingrequirements requirements Requirements	CE6SEPMW04D22221L18			Elicting requirement for mini project			23|2		
					CE6SEPMW04D23221L19						24|2		
					CE6SEPMW04D24221L20						25|2		
					CE6SEPMW04D25221L21						28|2		
					CE6SEPMW04D26221L22						28|2		

28\|2 2\|3, 3\|3 4\|3, 7\|3

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
5	28 Feb - 5 mar	6	III	Design Process Design Principles, and Concepts Effective Modular design,The Design Model: Data,Architectural,Interface design Architectural Designs Software	CE6SEPMW05D01321L23 CE6SEPMW05D02321L24 CE6SEPMW05D03321L25 CE6SEPMW05D04321L26 CE6SEPMW05D05321L27 CE6SEPMW05D06321L28	SEPM_ppt_04		ACD diagram for any problem statement	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 261,265,274,291,298,357,361,373,324		2/3 9/3 10/3 11/3 2/3 3/3	7/3	
6	7 mar - 11 mar	4		Architectural Styles & Design Interface Design: Rules User Interface Analysis and	CE6SEPMW06D08321L29 CE6SEPMW06D09321L30 CE6SEPMW06D10321L31 CE6SEPMW06D11321L32						24/3 27/3 28/3 30/3		
7	14 mar - 19 mar	6	Sessional I										
8	21 mar - 25 mar	5	IV	Testing Tactics: Testing Fundamentals Control Structure Testing Black Box Testing. A Strategic approach and Strategic Issues of testing	CE6SEPMW08D22321L33 CE6SEPMW08D23321L34 CE6SEPMW08D24321L35 CE6SEPMW08D25321L36 CE6SEPMW08D26321L37	SEPM_ppt_05		One object assign to students and tells possible test cases for the same	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 393,394,397,406,411,421		5/4 6/4 7/4 8/4 2/4		
9	28 mar - 2 apr	5		White Box Testing: Basis Path TestingUnit Testing Integration Testing Validation Testing, Debugging	CE6SEPMW09D29321L38 CE6SEPMW09D30321L39 CE6SEPMW09D31321L40 CE6SEPMW09D01421L41 CE6SEPMW09D02421L42						11/4 12/4 19/4 19/4 20/4		
10	5 apr - 9 apr	5	V	Management Spectrum: 4 P's Critical practices Metrics in process and project domains software measurement, metrics for software quality.	CE6SEPMW10D05421L43 CE6SEPMW10D06421L44 CE6SEPMW10D07421L45 CE6SEPMW10D08421L46 CE6SEPMW10D09421L47	SEPM_ppt_06			Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 629,644,650,661,677,696,698		20/4 21/4 22/4 22/4		
11	11 apr - 16 apr	4		project planning objectives software scope and feasibility Decomposition Techniques Empirical Estimation Models Specialized Estimation tech	CE6SEPMW11D12421L48 CE6SEPMW11D13421L49 CE6SEPMW11D14421L50 CE6SEPMW11D15421L51			Decission tree for problem statement			25/4 25/4 25/4 26/4		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
14	18 apr - 22 apr	4	VI	Reactive versus Proactive S/w Risk Risk Identification, projection, refinement RMMM, Task set for software	CE6SEPMW12D19421L52 CE6SEPMW12D20421L53 CE6SEPMW12D21421L54 CE6SEPMW12D22421L55	SEPM_ppt_07			Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 727,737,737-740,716,722,749.751,762,772,780		26/4 26/4		
15	25 apr - 30 apr	5		defining a task network scheduling, earned value analysis Software Quality Factors SQA Activities Software reviews	CE6SEPMW13D26421L56 CE6SEPMW13D76421L57 CE6SEPMW13D28421L58 CE6SEPMW13D29421L59 CE6SEPMW13D30421L60						27/4 28/4		
		5		FTR, software configuration management the SCM Repository SCM process	CE6SEPMW14D030521L61 CE6SEPMW14D040521L62 CE6SEPMW14D050521L63 CE6SEPMW14D060521L64 CE6SEPMW14D070521L65						29/4		
16	2 may - 07 may		SESSIONAL II										

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Date: 16/ 03 / 2022

CCOEW/CE/ 21-22

LESSON & TEACHING PLAN for Web Technology

Department of COMPUTER ENGINEERING

Faculty Name: Prof. SHAILESH SAHU | Sub: Web Technology | Sec: - | Year : 2021-22 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
1	21/03/22 23/03/22	3	1	Introduction to HTML: The Web development Process. Basic HTML TAGS.					Complete Reference HTML CSS Fith Edition		30/03/2022		
2	28/03/22 30/03/22	3		Simple Html Forms, frames and frame sets tags, web site structure.									
3	4/04/22 6/04/22	3	2	Stryle Sheets: Neef fro CSS, Introduction to CSS, basic Syntax and strcture using CSS.					Complete Reference HTML CSS Fith Edition		13-04 2022		
4	11/04/22 13/04/22	3		Background Images, colors and proerties, manipulating text, using fonts, borders and boxex margins, padding, lists, positioning using CSS.									
5	18/04/22 20/04/22	3	3	XML - Technologes, attributes, tree XML Namespace.					Complete Reference HTML CSS Fith Edition		16-04 2022	16-04 2022	
6	25/04/22 27/04/22	3		XML validation DTD, CSS, Schema.							27-04 2022		
7				**2/05/22 to 9/05/22**					**Sessional - I**				

Subject Teacher

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LESSON & TEACHING PLAN
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR
COMPUTER ENGINEERING

Session:-2021-22

Faculty Name: Prof. Sharayu J Deote						Sem:-VI CE		Subject: DBMS		
Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb-6 Feb	6	1	UNIT I: Introduction to Database Systems Database Systems: Significance and advantages, Types of Databases, the DBMS Environment Limitations of File processing system,		1. Abraham Silberschatz, Henry F. Korth and S. Sudarshan, 5th Edition, McGraw Database System Concepts 5th Edition, McGraw		06/02		
2	8 Feb-12 Feb	6	1	DBMS Architecture, Functions of DBMS, Data Abstraction, Data Independence, Formal relational query languages: Relational Algebra, Tuple Relational calculus, Domain Relational Calculus.	1.Drawing competition 2.Make group of 6 to 5 students ,give copy of prepare comparative table for symbols used 3.Practice Query examples	Hill (SIE), 2013. pg no. 1 to 28 ,chno 1 ch no 5 ,pg no 163 to 198 from same book		15/02		

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8	22 Mar to 26 Mar	6	III	Normalization of Database Tables: Need and Significance, the normal forms - 1NF, 2NF, 3NF, BCNF, 4NF, 5NF, normalization & database design,renormalization. normalization & database design,renormalization.	7.Activity observe fault in datdabe design and find solution	pg no 201 to 302 from korth ,Ch no 6 & 7& bipin desai		29/03		
9	29 Mar to 03 Apl	6	IV	**UNIT IV: Query Processing and Query Optimization** Overview of Query Processing, Measures of Query cost, Selection Operation Sorting, Join Operation, Types of Join operation	8. Comparision of operator finding the cost of query processing	ch. No 13 & 14 pg no. 531 to 598 from korth		06/04		
10	5 Apl to 9 Aprl	5		Operations, and Evaluation of Expressions. Overview of Query Optimization, Transformation of Relational Overview of Query Optimization, Transformation of Relational Expressions, Estimating Statistics of Expression results, Choice of Evaluation Plans, Materialized Views Tutorial				12/03		

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11	12 Apl to 17 Aprl	6	V	**Unit V: Transaction Management & Concurrency Control** Transactions: Concept, Transaction Model, Transaction atomicity and Durability, Transaction Isolation,Serializability, Transaction Isolation Levels and Implementations Concurrency Controls: Lock Based Protocol, Deadlock Handling, Time-stamp Based Protocols, and Validation Based Protocols. Recovery : Failure	ch no 15 ,16, 17 pg no 509 to 713 from Korth	19/04
12	19 Apl to 23 Apl	6		Classification of log base recovery Classification of log base recovery Advanced Recovery Techniques. **UNIT VI: Distributed Database** Introduction, data distribution, object naming, distributed query processing,		26/04
13	26 Apl to 30 Apl	3	VI	Consistency, concurrency control, **consistency, concurrency control,** distributed commitment and recovery,	ch no 22 pg no 833 to 870 from Korth	

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	security and protection in DDBMS,				
	homogenous and heterogeneous systems			30/04	
	Internal Practical 3 May to 7 May				
	Sessional -II 10 May To 15 May				

Subject Teacher

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Date: 23/ 8 / 2021

CCOEW/AS / 21-22

LESSON & TEACHING PLAN for Theory of Computation

Department of Computer Engineering

Faculty Name: Prof. Shailesh Sahu | Sub: Theory of Computation | Year : 2020-21 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	23Aug - 27Aug	5	I	Strings, Alphabet, Language operations,Finite state machine definitions, Finite automation model.	CE5TOCW01 D270821L05	FA_CE_ppt _01		(set Theory)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 35 to45		23/8		
				Acceptance of strings and language, Non deterministic finite automation, Deterministic finite automation.							25/8		
				Design of Automation				(Examples)			27/8		
2	30Aug-04 Sept	5	I	Design of Automation	CE5TOCW02D040921L10	NFA_CE_ppt_02		(Examples)	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 45 to 55		30/8		
				Design of Automation				(Examples)			2/9		
				Equivalence between NFA and DFA, Conversion of NFA into DFA							4/9		
3	06 Sept -	4	I	Minimization of FSM	CE5TOCW03D090921L1	FSM_CE_pp			Introduction to Automata Theory		6/9		

Sahu
Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	7 feb-11 feb	5	III	Inference in a production system			Expert Systems by Peteer and linda	9/2/22			
				Inference in a production system				10/2/22			
				Pattern recognition and production rules				11/2/22			
5	14 Feb-18 feb	5	III	Pattern recognition and production rules			Principal of Expert Systems by Peteer and linda	11/2/22			
				Production rules as a representation formalism (LISP)				14/2/22			
				Production rules as a representation formalism (PROLOG)				14/2/22			
				Production rules as a representation formalism							
				Production rules as a representation formalism							
				Frames and Inheritance				15/2/22			
6	21 Feb-25 Feb	5		Semantic nets			Principal of Expert Systems	16/2/22			
				Frames and single inheritance				17/2/22			

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Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	25 Feb			Frames and single inheritance			by Peteer and linda	17/2/22			
				tree like frame taxonomies				18/2/22			
7				**Sessional I**							
8	21 Feb-25 Feb	5	IV	exceptions			Principal of Expert Systems by Peteer and linda	25/2/22			
				inheritance and attribute facts				2/3/22			
				inheritance and attribute fact				3/3/22			
				Frames and multiple inheritance				3/3/22			
				frames as a representation formalism				4/3/22			
9	28 feb to 05 Mar	5	V	Reasoning with Uncertainty			Principal of Expert Systems by Peteer and linda	7/3/22			
				Production rules				7/3/22			
				inference and uncertainty				8/3/22			
				probability theory				9/3/22			
				probability theory and functions				10/3/22		Tutorial	
				conditional probabilities and Bayes' theorem				16/3/22			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
10	7 mar-11 mar	5	V	The subjective Baysian method			Principal of Expert Systems by Peteer and linda	14/3/22			
				conditional probabilities and Bayes' theorem				11/3/22			
				application				15/3/22			
				in rule based expert system				14/3/22			
				the certainty factor model				11/3/22			
				the probability function							
11	14 Mar-19 Mar	5	V	the Dempster-Shafer theory			Principal of Expert Systems by Peteer and linda	16/3/22			
				the Dempster-Shafer theory				16/3/22			
				Network model				17/3/22			
				Network model				17/3/22			
				History of artificial neural networks				21/3/22			
12	21 Mar - 25 Mar	5	VI	networks basic concept of neural network			Neural network in computer intelligence by Limin Fu	22/2/22		Ass 02	
				hybrid intelligence				23/2/22			
				supervised and unsupervised learning, neural network learning				24/2/22 25/2/22			
				biological neural system				25/2/22			

-21st

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				single and multi layer perceptrons					28/3/22 29/3/22		
		Sessional-II							31/3/22		

Sub. Teacher

Ac

Dr. Milind Khamparkar
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Maharshi Karve Stree Shikshan Samstha's

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Cummins College of Engineering for Women, Nagpur

Date: 10/ 01 / 2022

CCOEW/CE/ 21-22

LESSON & TEACHING PLAN for UNIX AND SHELL PROGRAMMING

Department of COMPUTER ENGINEERING

Faculty Name: Prof. SHAILESH SAHU							Sub: Unix and Shell Programming			Sec: -	Year : 2021-22		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
1	10/01/22 15/01/22	6	1	General Overview of the system: System Structure (Architecture of UNIX Systems). User Perspective (The file system, Processing Environment.)	CE8USPW01D 060221L01	USP-SS-PPT1			The Design of Unix Operating System by- M.J Bach (4-36)		21-01-2022		
2	17/01/22 21/01/22	5		(Building Block Primitives),Operating systems services.Assumption about hardware (Interrupts and Exceptions, Processor Execution Levels, Memory Management).				UNIX COMMANDS					
3	24/01/22 29/01/22	5	2	Introduction to kernel: Architecture of the UNIX Operating System (Block Diagram of the system Kernel). Introduction to system Concepts (An Overview of the File Subsystem,Processes-State and Transitions). Kernel data structures,System administration.	CE8USPW01D 200221L12	USP-KA-PPT2					05-02-2022	01/02/2022	

Subject Teacher

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CCOEW/CE / 21-22

Date: 03/ 01 / 2022

LESSON & TEACHING PLAN for STQA

Departmnet of Computer Engineering

Faculty Name: Prof. Abhilasha Borkar									Session: (2021-22)		Sem:- Eight
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic-	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition.	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
Skill development(3-1-22 to 7-1-22)											
2	10/1/22-15/1/22	5	I	Need of testing, Errors, Faults, Defects, failures, Unit Testing,Integration Testing , Central issue in Testing,Testing activities			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		17|1 18|1 19|1 20|1		
3	17/1/22-21/1/22	5	I	System testing, Objectives of Testing,V-model,Sources Of information for Test Cases, Monitoring & measuring test execution,					21|1 24|1 25|1 27|1		
4	24/1/22-29/1/22	6	I & II	Test Tools & Automation, Limitation Of TestingConcept of unit testing, Static unit testing, Defect Preventions.		1. Make students Group and give them one object(pen,pencil etc) & student will write test cases			28|1 31|1 1|2 2|2 3|2 4|2	Assignment 1 4|2	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic-	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition.	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
5	31/1/22-05/2/22	5	II	Dynamic unit testing,Mutation testing, Debugging, Unit Testing in extreme programming, tools for unit Testing,		1.Introduce students one automation tool for testing(ex. WinRunner,QTP 8.2,Loadrunner 8.0)	S/w Testing Concept & Tools by Nageswara Rao Pusuluri	PPT	8|2 9|2 10|2 11|2 12|2 13|2	Assignment 2 10|2	
6	07/2/22-11/2/22	5	III	Outline of control flow testing, control flow graph, Path in control flow graph, Path selection Criteria			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		14|2		
7	07/2/22-11/2/22	6	III	:All path coverage criteriaStatement coverage, Path coverage,Predicate coverage criteria, Generating Test input		Make students Group and give them one object(pen,pencil etc) & student will test different			15|2 16|2		
8	14/2/22-19/2/22	5	III	example of Test data selection,Introduction to Data flow testing, Data flow graph, Data flow Testing criteria, Comparison of Data flow Test selection criteria.		1. Write simple c program &test their basic pathS	Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		15|2 16|2 17|2 18|2		
9	21/2/22-25/2/22	Sessional I									

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic-	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition.	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
10	28/2/22-5/3/22	6	IV	System Integration: Introduction,Different types of interfaces & interfaces errors, System integration techniques, Software & Hardware integration			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		18|2 28|2 2|3 3|3 4|3		
11	07/3/22-11/3/22	6	IV	Test Plan for System integration,Off-the Shelf component integration, Taxonomy of system Test, Basic Test, Functionality test,Robustness Test					7|3 8|3 9|3 10|3	Assignment 3	
12	14/3/22-19/3/22	5	V	Performance Test,Scalability Test, Stress Test, Load & Reliability Test, Regression test, Documentation test, Test Cases and Necessity of Test Case					11|3 14|3	16|3	
13	21/3/22-25/3/22	6	V	Functional specification based Test Case Design, Use Cases based Test Case Design, Application based Test cases Design, Levels of Test Execution, Acceptance criteria			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		15|3 16|3 17|3 18|3		
14	28/3/22-31/3/21	4	VI	Selection of acceptance criteria, Acceptance Test Plan, Acceptance test execution, Acceptance Test report,Fine views of software Quality, ISO 9126, ISO 9000:2000 software quality Standard					21|3 22|3 23|3 24|3 25|3 26|3 27|3		
15	04/4/22-09/4/22	Sessional II									

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DEW/ETC 21-22

Date: 20/08/2021

LESSON & TEACHING PLAN for Industrial Economics and Entrepreneurship Development

Department of Electronics & Telecommunication Engineering

lty Name: Dr. Priyadarshini Ramteke			Sub:Industrial Economics and Entrepreneurship Development		Sec:	Year : 2021-22		Sem:- V

K	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	20-25th Sept	0		**Skill Development**								
	27 Sept - 2 Oct	2	I	Introduction of the subject						27/9/21		
				Definition of Value education						29/9/21		
	4 Oct - 9 Oct	2		Need for value education						4/10/21		
				The content& process of value education						13/10/21		
	11 - 16 Oct	1		Basic guidelines of value education						18/10/21		
	18 - 23 Oct	1		Self exploration as a means of value education						20/10/21		
	25 - 30 Oct	2		Happiness and prosperity in value education						25/10/21	26/10/21	
	1 - 6 Nov			**DIWALI VACATION**								
	8 - 13 Nov			**SESSIONAL - I**								
	15 - 20 Nov	3	II	Harmony of self with body						28/10/21		
				Coexistence of self and body						30/10/21		
										15/11/21		
	22 - 27	2		understanding the need of self and body						17/11/21		

Dr. Milind Khanapurkar
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No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
-		Understanding the activities of self and activities of body						24/11/21		
3	III	Values in relationship						29/11/21		
		Five dimensions in relationship						1/12/21		
								8/12/21		
2		The holistic perception of harmony in existence						13/12/21		
								14/12/21		
3	IV	Basics for ethical human conduct						15/12/21		
								16/12/21		
		Defects in ethical human conduct						27/12/21		
2		Human rights violation and social disparities						28/12/21		
		Value based life						20/12/21		

Sessional II

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CCOEW/CE / 21-22

Date: 23/ 9 / 2021

LESSON & TEACHING PLAN for Introduction to Computer Network

Department of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Sub: ICN | Sec | Year : 2020-21 | Sem:- III

WEEK	Week	No. Of	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity /	Refrence Book - Chapter no.	link for quiz or	Completion Date	Assignment/Tutorial	AC's sign
1	27Sept - 1Oct-21	5	I	Introduction about Subject.introduction to Data Communication and computer n/w – definition,characteristics,Components , Data Representation, Data Flow,need of computer n/w,advantages and disadvantages, goals and application of computer n/w,n/w hardware components,computer n/w criteria,	CE3ICNW01D10820L01	ICN_ppt_01			Data Communications and Networking by Behrouz A Forouzan Pg. no.3 ,29-50,89 Computer Network By Andrew S. Tanenbaum Pg No. 3-237		27/9/21		
					CE3ICNW01D11820L02								
					CE3ICNW01D12820L03						28/9/21		
					CE3ICNW01D13820L04						29/9/21		
					CE3ICNW01D14820L05						30/9/21		
2	4 Oct-9Oct 21	5		Physical Structure (Types of Connection, Physical Topology),Categories of Network (LAN, WAN, MAN,PAN,CAN),Classification of LAN,Layered model: protocol hierarchies	CE3ICNW01D17820L06	ICN_ppt_02					4/10/21		
					CE3ICNW01D18820L07						5-/10/21		
					CE3ICNW01D19820L08								
					CE3ICNW01D20820L09						7/10/21		
					CE3ICNW01D21820L10								
					CE3ICNW01D22820L11						11/10/21		
				N/w model design issues for the	CE3ICNW01D24820L12						13/10/21	25/10/21	
					CE3ICNW01D25820L13								

Faculty in Charge

Cummins College of Engineering for Women, Hingna, Nagpur-441110

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WEEK	Week	No. Of	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity /	Refrence Book - Chapter no.	link for quiz or	Completion Date	Assignment/Tutoria	AC's sign
3	11 Oct-16 Oct 21	5	II	layers, interfaces and services,service primitives, connection oriented and connectionless types of services, OSI Reference model and architecture	CE3ICNW01D26820L14				Data Communications and Networking by Behrouz A Forouzan Pg. no.101-129,141-155		13/10/21		
					CE3ICNW01D27820L15								
					CE3ICNW01D28820L16						20/10/21		
					CE3ICNW01D29820L17								
4	18 Oct-23 oct 21	5		TCP IP reference model, types of addressing,Physical Layer: types of signals, transmission mode, transmission impairment, data rate limits, performance.Digital to digital conversion line coding techniques,transmission media,switching techniques.	CE3ICNW01D31820L18						21/10/21		
					CE3ICNW01D01920L19						25/10		
					CE3ICNW01D02920L20						26/10		
					CE3ICNW01D03920L21						28/10		
					CE3ICNW01D04920L22								
					CE3ICNW01D05920L23						28/10		
5	25 oct-30 oct 21	6	III	Data Link Layer: introductionn to MAC and LLC sub layers, framing methods, error detection and correction methods, LLC sub layer protocols for noise and noiseless channels	CE3ICNW01D07920L24				Data Communications and Networking by Behrouz A Forouzan Pg no 307,312,318,324 332,370,373,377 395		1/11/21		
					CE3ICNW01D08920L25						4/11/21		
					CE3ICNW01D09920L26								
					CE3ICNW01D10920L27						17/11/21		
					CE3ICNW01D11920L28						18/11/21		
					CE3ICNW01D12920L29						22/11/21		
6	8 nov-12 nov 21			Sessional I							22/11/21	24/11	
6	15 nov-20 Nov 21	4	III	MAC Layer multiple access protocols (CSMA,CSMA/CD,CSMA/CA), channelization (FDMA,TDMA,CDMA)	CE3ICNW01D14920L30						25/11/21		
					CE3ICNW01D17920L31						26/11		
					CE3ICNW01D18920L32								

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WEEK	Week	No. Of	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity /	Refrence Book - Chapter no.	link for quiz or	Completion Date	Assignment/Tutoria	AC's sign
				introduction to virtual LAN	CE3ICNW01D19920L33						30/11/21		
8	22 nov-26 nov21	6	IV	Network Layer Addressing in IPv4, routing algorithm(static,dynamic,hierarchical),Address mapping protocols(ARP,RARP,DHCP),ICMP protocol,subnet and subnet masking techniques for classful addressing methods	CE3ICNW01D28920L34				Data Communications and Networking by Behrouz A Forouzan Pg. No. 549		2/12/21		
					CE3ICNW01D29920L35						3/12/21		
					CE3ICNW01D30920L36						5/12/21		
					CE3ICNW01D011020L37						6/12/21		
					CE3ICNW01D031020L38						7/12		
9	29 nov-4dec 21	6		Transport Layer: elements of transport protocols, addressing techniques,connection oriented service,TCP protocol and header,TCP checksum calculation, TCP transmission policy UDP protocol ,UDP Checksum calculation	CE3ICNW01D051020L39								
					CE3ICNW01D061020L40						8/12		
					CE3ICNW01D071020L41						9/12		
					CE3ICNW01D081020L42						10/12	13/12	
					CE3ICNW01D091020L43								
					CE3ICNW01D101020L44						15/12		
10	6 dec--10 dec 21	6		SCTP protocol,QoS parameters,congestion control methods,traffic shaping algorithms,Session and presentation layer: design issues, responsibilites of presentation layer	CE3ICNW01D121020L45				Data Communications and Networking by Behrouz A Forouzan Pg. No. 549 TCP/IP Protocol Suite by Behrouz A Forouzan		16/12		
					CE3ICNW01D131020L46								
					CE3ICNW01D141020L47						18/12		
					CE3ICNW01D151020L48						20/12		
					CE3ICNW01D161020L49								
					CE3ICNW01D171020L50						21/12		
					CE3ICNW01D191020L51								

24/12

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CCOEW/CE / 21-22

Date: 1/ 8 / 2022

LESSON & TEACHING PLAN for Data Warehousing and Mining

Department of Computer Engineering

Faculty Name: Prof. Supriya Gupta | Sub: Data Warehousing and Mining | Sec | Year : 2022-23 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
Skill Development(1/8/22 to 6/8/22)													
1	8 Aug - 12 Aug	5	I	Introduction to data warehousing, evolution of decision support systems, Data warehouse life cycle, building a data warehouse, Data Warehousing Components					Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2006.		8/8/22		
											9/8/22		
											12/8/22		
											17/8/22		
											18/8/22		
2	17 Aug - 20 Aug	6		Data Warehousing Architecture, Trends in data warehousing Data marts, Metadata							22/8		
											22/8		
											22/8		
											22/8		
											23/8		
											23/8		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
3	22 Aug - 26 Aug	4	II	On Line Analytical Processing,. ,OLAP in the Data Warehouse: Demand for Online analytical processing, need for multidimensional analysis,					Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2006.		24/8		
											24/8		
											25/8		
											25/8		
											26/8		
4	29 Aug - 3Sep	6		fast access and powerful calculations, limitations of other analysis methods, OLAP definitions and rules,OLAP characteristics,							1/9		
											1/9		
											1/9		
											2/9		
											2/9		
5	5 sept-9 Sept	5	III	major features and functions, OLAP models the MOLAP model, the ROLAP model, ROLAP versus MOLAP					Data Mining - Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2006.		5/9		
											6/9		
											7/9		
											8/9		
6	12 Sept-16	5		Multidimensional Data Models: Types of Data and Their Uses, from Tables and Spreadsheets to Data Cubes, Identifying Facts and							12/9		
											13/9		
											13/9		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
6	Sept-10 Sep			Data Cubes, Identifying Facts and Dimensions									
7	17 Sept-23 Sep			Sessional I									
8	26 Sept-1 Oct	5	IV	Designing Fact Tables, Designing Dimension Table, Data Warehouse Schemas, Introduction to OLTP.					Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2006.	13/9			
										16/9			
										16/9			
9	3 oct-7 oct	5		Data Mining: Introduction: Motivation, Importance, Data Mining Functionalities Knowledge Discovery Process, KDD and Data Mining, Data Mining vs. Query Tools,						26/9			
										26/9			
10	10 oct-15 oct	6	V	interesting patterns, Classification of data mining systems, Major issues, from Data warehousing to data Mining. Data Preprocessing: Need for Preprocessing the Data, Data Cleaning, Data Integration and Transformation, Data Reduction, Discrimination and Concept					Data Mining – Concepts and Techniques - Jiawei Han &	28/9			
										28/9			
										29/9			
										3/10			
										3/10			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
				Discrimination and Concept Hierarchy Generation					Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2006.				
12	17 oct-21 oct	5		Mining Frequent Patterns, Associations and Correlations – Mining Methods – Mining Various Kinds of Association Rules – Correlation Analysis – Constraint Based Association Mining – Classification and Prediction - Basic Concepts -							4/10		
											4/10		
											10/10		
											11/10		
13	24 Oct-28 Oct			Diwali Vacation									
13	1 Nov-5 Nov	6	VI	Bayesian Classification – Rule Based Classification – Classification by Back propagation – Support Vector Machines – Associative Classification – Lazy Learners – Other Classification Methods - Prediction					Data Mining – Concepts and Techniques - Jiawei Han & Micheline Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2006.		12/10		
											12/10		
											13/10		
											13/10		
											17/10		
14	7 Nov-11 Nov	4		Cluster Analysis - Types of Data – Categorization of Major Clustering Methods - K- means – Partitioning Methods – Hierarchical Methods - Density-Based Methods –Grid Based Methods							18/10		
											19/10		
											20/10		
											21/10		
15	14 Nov-19 Nov	5	III	Cluster Analysis – Outlier Analysis . Data Mining Applications. Social Impacts of Data Mining Case Studies: Mining WWW Mining Text Database Mining Spatial					Data Mining – Concepts and Techniques - Jiawei Han & Micheline		1/11		
											1/11		
											2/11		
											3/11		

Faculty in Charge

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Sanstha's
Lokmanya College of Engineering for Women
Kalyan, Nagpur-441110

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
									Kamber, Morgan Kaufmann Publishers, Elsevier,2nd Edition, 2006.		8/11		
											9/11		
16	21 Nov-25 Nov	5		Revision							9/11		
											10/11		
17	28 Nov-3 Dec	Sessional II											

Sub. Teacher
Prof. Supriya Gupta

Ac
Prof. S. Deote

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's
Yashwantrao Chavan College of Engineering for Women
Hingna, Nagpur-441110.

Faculty in Charge **HOD**

Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/CE / 21-22

Date: 1/ 8 / 2022

LESSON & TEACHING PLAN for Database Management System

Department of Computer Engineering

Faculty Name: Prof. Supriya Gupta | Sub: Database Management System | Sec | Year : 2022-23 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
Skill Development(1/8/22 to 6/8/22)													
1	8 Aug - 12 Aug	3 5	I	General introduction to database system, DBMS distinction, Approaches to building a database					Database System Concepts by AviSilberschatz, Henery F. Korth, S. Sudarshan		8/8/22 9/8/22 12/8/22 12/8/22 12/8/22		
2	17 Aug - 20 Aug	5 3		Data models, Three schema architecture of database, Challenges in building a DBMS, Various components of DBMS							17/8/22 19/8/22 18/8/22 19/8 19/8 22/8		

Faculty in Charge

Cummins College of Engineering for Women, Nagpur-411 052

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women
Nagpur-411052

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
3	22 Aug - 26 Aug	5	II	Relational Data models, Concepts of relation, Schema instance distinction, Keys, Referencial integrity and foreign key					Database System Concepts by AviSilberschatz, Henery F. Korth, S. Sudarshan		24/8 24/8 25/8 26/8		
4	29 Aug - 3Sep	6		Relational algebra operators, tuple relation calculus, Domain Relational calculus,							1/9 2/9 3/9 3/9 3/9 3/9		
5	5 sept-9 Sept	4 5	III	SQL, PL/SQL					Database System Concepts by AviSilberschatz, Henery F. Korth, S. Sudarshan		5/9 6/9 6/9 7/9 7/9 8/9 8/9 8/9		
6	12 Sept-16	5		Evolution of data models, Entity relationship model, development									

Faculty in Charge

Dr. Milind Khanapurkar
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Lokmanya College of Engineering for Women
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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
6	Sept-10 Sep	5									13/9		
											13/9		
7	17 Sept-23 Sep	Sessional I											
8	26 Sept-1 Oct	5 4	IV	logical view of data, concepts of functional dependency, normalization 1NF, 2NF, 3NF, BCNF					Database System Concepts by AviSilberschatz, Henery F. Korth, S. Sudarshan		16/9		
											16/9		
											26/9		
											27/9		
											28/9		
9	3 oct-7 oct	5 4		Query processing and optimization, measure of query cost estimation in query optimization							29/9		
											29/9		
											3/10		
											4/10		
											10/10		
											10/10		
10	10 oct-15 oct	5	V	pipelining and materialization, structure of query evalustion plans							11/10		
											12/10		
											12/10		
											13/10		
									Database System Concepts by		13/10		

Faculty in Charge

Dr. Milind Khanapurkar
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Kamla Nehru College of Engineering for Women
Hingna, Nagpur-441110.

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
12	17 oct-21 oct	5		Transaction concepts, properties of transactions, Serializability					Database System Concepts by AviSilberschatz, Henery F. Korth, S. Sudarshan		17/10		
											17/10		
											17/10		
											19/10		
13	24 Oct-28 Oct			Diwali Vacation									
13	1 Nov-5 Nov	6	VI	Testing for serializability, transaction isolation levels and implementations							19/10		
											20/10		
											20/10		
											21/10		
											21/10		
14	7 Nov-11 Nov	4		Concurrency control, lock base protocol, deadlock handling							1/11		
											2/11		
											2/11		
											3/11		
15	14 Nov-19 Nov	5	III	time stamp based protocol, validation based protocol							4/11		
											4/11		
									Database System Concepts by		7/11		
											7/11		

Faculty in Charge

Dr. Milind Khanapurkar
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Commitee College of Engineering for Women
Hingna, Nagpur-441110

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
									Avi Silberschatz, Henery F. Korth, S. Sudarshan		10/11		
16	21 Nov-25 Nov	5		Revision							11/11 17/11 18/11		
17	28 Nov-3 Dec	Sessional II											

Sub. Teacher
Prof. Supriya Gupta

Ac
Prof. S. Deote

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Cummins College of Engineering for Women
Khrgna, Nagpur-441110

Faculty in Charge **HOD**

CCOEW/AS / 21-22

Date: 22/08/2022

LESSON & TEACHING PLAN for Applied Maths-III

Department of Computer Engineering

Faculty Name: Prof. Pravin Gorantiwar						Sub: Applied Maths II		Computer Engineering	Year : 2021-22		Sem:- III
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video/ PDF/PPT ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	29 Aug - 03 Sept	4	III	Unit 3: Matrices, Linear dependence of vectors	PDF/PPT Matrices		Higher engineering mathematics Shobhane & Tembhekar				
				Eigen values and Eigen vectors							
				Reduction to diagonal form					12-09-22		
2	05 Sept - 10 Sept	5	III	Singular value decomposition							
				Sylvester's theorem							
				Largest Eigen value and its corresponding Eigen vector by iteration method	PDF Z/PPT Transform				19-09-22	20.09.22	
3	12 Sept - 17 Sept	5	II	Unit 2: Z-Transform Definition and convergence of Z-transform			Higher engineering mathematics Shobhane & Tembhekar		22-09-22		
				Properties (Statement only) and examples,							
				Inverse Z transform by partial fraction method					27.09		
4	19 Sept - 24 Sept	5	II	Convolution of two sequences	PDF Z-Transform						
				Power series method,							
				Solution of difference equations with constant coefficients by Z-transform method.					11.10.22	29.10.22	
5	26 Sept - 01 Oct	5	IV	Unit 4: Mathematical Expectation and Probability Distributions	PDF/PPT Mathematical Exceptation		Higher engineering mathematics Shobhane & Tembhekar				
				Review of discrete and continuous random variables							
				Mathematical expectation, Variance, Standard deviation,					09.11.22		
6	3 Oct - 12 Oct		IV	Moments,							
				Moment generating function					11.11.22		
	10 Oct - 22 Oct	6									

Sessional - I Examination

Faculty in Charge

HOD

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women
Kirtane, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video/ PDF/PPT ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
7	24 Oct - 29 Oct	6	Diwali Vacation								
8	31 Oct - 05 Nov	5	IV	Binomial distribution, Poisson's distribution, Normal distribution, Exponential distribution.	PDF/PPT Mathematical Exceptation		Higher engineering mathematics Shobhane & Tembhekar		16.11.22		
9	07 Nov - 12 Nov	5	I	Unit 1: Integral Transforms Laplace Transform: Definition, Properties of Laplace transform Evaluation of integrals by Laplace transform	PDF/PPT Laplace Transform		Higher engineering mathematics Shobhane & Tembhekar		21.11		
10	14 Nov - 19 Nov	5	I	Inverse Laplace transform by partial fraction Convolution theorem (Statement only) Simple applications of Laplace transform to solve ordinary differential equations.					28.12	19.11.22	
11	21 Nov - 26 Nov	5	I	Fourier Transform: Definition and Properties (excluding FFT), to solve integral equations Applications of Fourier transform	PDF/PPT Fourier transform		Higher engineering mathematics B. S. Grewal		30.11		
			V	Unit 5: Statistical Techniques Statistics: Introduction to correlation and regression, Multiple correlation and its properties, Multiple regression analysis, Regression equation of three variables.	PDF/PPT Statistical Techniques		Higher engineering mathematics H K Das		05.12		
12	28 Nov - 03 Dec	5	V	Measures of central tendency: Mean, Median, Quartile, Decile, Percentile, Mode, Mean deviation, Standard deviation Skewness: Test and uses of skewness and types of distributions,					16.12		
13	05 Dec - 10 Dec	5	V	Measure of skewness, Karl Pearson's coefficient of skewness, Measure of skewness based on moments					20.12		
14	15 Dec - 23 Dec	5		Sessional- II Examination							

Faculty in Charge

Sub. Teacher

HOD

Dr. Milind Khanapurkar
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WEEK	Week	No. Of	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity /	Refrence Book - Chapter no.	link for quiz or	Completion Date	Assignment/Tutoria	AC's sign
11	13 dec-18 dec21	6	V	Application layer and n/w security: responsibilites of application layer, application layer services(DNS,Email,MIME,SMTP,FTP,TFTP)	CE3ICNW01D201020L52				Data Communications and Networking by Behrouz A Forouzan Pg. No. 799				
					CE3ICNW01D211020L53						22/12		
					CE3ICNW01D221020L54								
					CE3ICNW01D231020L55								
					CE3ICNW01D241020L56						23/12		
14	20 dec-24 dec 21	5		Architecture of WWW and HTTP,introduction to cryptography,security services,introduction to symmetric and asymmetric key cryptography , digital signature	CE3ICNW01D261020L57								
					CE3ICNW01D271020L58								24/12
					CE3ICNW01D281020L59						24/12		
					CE3ICNW01D291020L60								
					CE3ICNW01D311020L61								
15	27 dec-31 dec 21			Sessional II									

Sub. Teacher

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Academic year

2020-21

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Mouje Sukli (Gupchup), Hingna, Nagpur-441110

CCOEW/AS / 20-21

Date: 02/06/2021

LESSON & TEACHING PLAN for Applied Maths-III

Department of Computer Engineering

Faculty Name: Prof. Pravin Gorantiwar | Sub: Applied Maths II | Computer Engineering | Year : 2021-22 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	27 Sept - 02 Oct	5	III	Unit 3: Matrices Linear dependence of vectors		PDF/PPT Matrices		Higher engineering mathematics Shobhane & Tembhekar 2.43-2.81				
				Eigen values and Eigen vectors								
				Reduction to diagonal form								
				Singular value decomposition						07.10.21		
2	04 Oct - 09 Oct	5	III	Sylvester's theorem		PDF /PPT Matrices		Higher engineering mathematics Shobhane & Tembhekar 2.43-2.81				18/10
				Largest Eigen value and its corresponding Eigen vector by iteration								
			II	Unit 2: Z-Transform Definition and convergence of Z-transform		PDF Z/PPT Transform				20.10.21	18.10.21	
3	11 Oct - 16 Oct	5	II	Properties (Statement only) and examples,		PDF Z/PPT Transform		Higher engineering mathematics Shobhane & Tembhekar 6.1-6.27				
				Inverse Z transform by partial fraction method								
				Convolution of two sequences						25.10.21		
4	18 Oct - 23 Oct	5	II	Power series method,		PDF Z-Transform		Higher engineering mathematics Shobhane & Tembhekar 6.1-6.27				
				Solution of difference equations with constant coefficients by Z-transform method.								
			IV	Unit 4: Mathematical Expectation and Probability Distributions		PDF/PPT Mathematical Exceptation		Higher engineering mathematics Shobhane & Tembhekar 12.1-12.32				
				Review of discrete and continuous random variables						Kavlind 16.11.21		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Samstha's
Cummins College of Engineering for Women
Nagpur-441110

NEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
5	25 Oct - 30 Oct	5	IV	Mathematical expectation, Variance, Standard deviation,		PDF/PPT Mathematical Exceptation		Higher engineering mathematics Shobhane & Tembhekar 12.1-12.32				
				Moments,							29.10.21	
				Moment generating function						22.11.21		
6	01 Nov - 06 Nov	6	Diwali Vacation									
7	08 Nov - 13 Nov	6	Sessional - I Examination									
8	15 Nov - 20 Nov	5	IV	Binomial distribution,		PDF/PPT Mathematical Exceptation		Higher engineering mathematics Shobhane & Tembhekar 13.1-12.19				
				Poisson's distribution,								
				Normal distribution, Exponential distribution.						25.11.21		
			I	Unit 1: Integral Transforms Laplace Transform: Definition,		PDF/PDF Laplace transform						
9	22 Nov - 27 Nov	5	I	Properties of Laplace transform				Higher engineering mathematics Shobhane & Tembhekar 4.1- 4..61				
				Evaluation of integrals by Laplace transform								
				Inverse Laplace transform by partial fraction method,								
				Convolution theorem (Statement only)						10.12.21		
10	29 Nov - 06 Dec	5	I	Simple applications of Laplace transform to solve ordinary differential equations.		PDF/PPT Fourier transform		Higher engineering mathematics Shobhane & Tembhekar 5.1- 5.15				
			I	Fourier Transform: Definition and Properties (excluding FFT), to solve integral equations						15.12.21		
11	06 Dec - 11 Dec	5	I	Applications of Fourier transform		PDF/PPT Statistical Techniques		Higher engineering mathematics B. S. Grewal 774- 719				
			V	Unit 5: Statistical Techniques Statistics: Introduction to correlation and regression, Multiple correlation and its properties, Multiple regression analysis, Regression equation of three variables.						18.12.21	06.12.21	

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Samstha's
Lumbini College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPT ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
12	13 Dec - 18 Dec	5	V	Measures of central tendency: Mean, Median,		PDF/PPT Statistical Techniques		Higher engineering mathematics H K Das				
				Quartile, Decile, Percentile,								
				Mode, Mean deviation, Standard deviation								
				Skewness: Test and uses of skewness and types of distributions,						23.12.21		28/12
13	20 Dec - 25 Dec	5		Measure of skewness, Karl Pearson's coefficient of skewness,		PDF/PPT Statistical Techniques		Higher engineering mathematics H K Das				
				Measure of skewness based on moments						24.12.21		
14		5		Sessional- II Examination								

Sub. Teacher

Ac

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Hingna, Nagpur-441110

Faculty in Charge

HOD

11

Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
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Lab Practicals Plan

CCOEW/ Department of Computer Engineering | Computer-Workshop-I | Sem:--III

S.Khamankar

Pi	Name of experiment	Lab iD	Possible variations used	Link for virtual lab	Batch: Planned Date	Batch: Perform Date	No. of Viva done and link for viva questions	Ac's Remark
					print	fill	fill	fill
print	print				28/9/2021			
	Introduction							
1	Write a program in C to create and store data in that file	BECME30902PD28092021 P01	For each practical I created extra practical list which I mailed to students for variations	online compiler	28/9/2021	28/9/21		
2	Write a C program toDelete a file & Copy content of file to another file	BECME30902PD05102021 P02			10-05-2021	5/10/21		
3	Write a C program to merge two files	BECME30902PD12102021 P03			10-12-2021	12/10/21		
4	Write a program in PHP to handle HTML forms .	BECME30902PD19102021 P04			19/10/2021	19/10/21		
5	Write.a program in PHP to handle regular expression including modifiers , operators and metacharacters.	BECME30902PD26102021 P05			26/10/2021	26/10/21		
6	Write a program in PHP to handle PHP library functions	BECME30902PD09112021 P06			11-09-2021	9/11/21		

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7	Write a python program to add two nos	**BECME30902PD16112021 P07**			**16/11/2021**	16/11/21		
8	Write a python progran to find the sqaure root	**BECME30902PD23112021 P08**			**23/11/2021**	23/11/21		
9	Write a python program to calculate area of triangle	**BECME30902PD30112021 P09**			**30/11/2021**	30/11/21		
10	Write a python program to swap two variables	**BECME30902PD07122021 P10**			**12-07-2021**	7/12/21		

Subject-Teacher

Ac

Dr. Milind Khanapurkar
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Maharashtra Karmaveer Shikshan Sanstha's
Priyadarshini College of Engineering for Women
Hingna, Nagpur-441110.

Date: 20/ 8 / 2021

LESSON & TEACHING PLAN for Web Technology

Department of Computer Engineering

Faculty Name: Prof. S,Khamankar | Sub: WT | Sec: | Year : 2021-2022 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	23'rd Aug -27'th Aug	5	I	Introduction to Web Technology	CME705TW01D230821L01	WT-01	WT-V1-01	i) Practical pracise will taken on HTML, XHTML,Java Script Program also will take MCQ's on topics ii) Task given	1) "Web Technologies - A		23/8/2021		
				Web Essentials,	CME705TW01D240821L02						24/8/2021		
				client server communications,	CME705TW01D250821L03						25/8/2021		
				Web Browser,	CME705TW01D260821L04						26/8/2021		
				Markup Languages	CME705TW01D270821L05						27/8/2021		
2	30Aug-4Sept	5		Markup Languages	CME705TW02D300821L06						30/8/2021		
				XHTML	CME705TW02D310821L07						31/8/2021		
				SHTML	CME705TW02D10921L08						1/9/2021		
				XML, simple XHTML page style sheets	CME705TW02D20921L09						2/9/2021		
				Introduction to CSS,	CME705TW02D30921L10						3/9/2021		
3	6 Sept-10 Sept	5		Need for CSS	CME705TW03D60921L11						6/9/2021		
				basic syntax and extrusion,	CME705TW03D70921L12						7/9/2021		
				Program based on CSS	CME705TW03D80921L13						8/9/2021		
				DHTML.	CME705TW03D90921L14						9/9/2021		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Sanstha's
Cummins College of Engineering for Women
Khgina, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
			II	Client side programming,	CME705TW03D100921L15	WT-02	WT-V1-02	students for design creative web pages , also collect more info about web essentials as an assignment	Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates		14/9/24		
4	13 Sept-18 Sept	5		Client side programming,	CME705TW04D130921L16						15/9/24		
				Java Script Language,	CME705TW04D140921L17						17/9/24		
				Java Script Language, syntax	CME705TW04D150921L18						19/9/24		
				host objects: Browsers	CME705TW04D160921L19						19/9/24		
				host objects: Browsers	CME705TW04D170921L20						20/9/24		
				DOM	CME705TW05D200921L21						20/9/24		
5	20Sept-24Sept	5		DOM prgram structure	CME705TW05D210921L22						21/9/24		
				AJAX	CME705TW05D220921L23						22/9/24	1st Assignment	
			III	JAVA Applets,	CME705TW05D230921L24	WT-03	WT-V1-03				23/9/24		
				server side programming:	CME705TW05D240921L25						24/9/24		
				server side programming:	CME705TW06D270921L26						28/9/24		
6	27Sept-1 Oct	5		Java Servlets - basics,	CME705TW06D280921L27			Given examples for more practse			28/9/24		
				Java Servlets - basics,	CME705TW06D290921L28						29/9/24		
				separating programming and presentations	CME705TW06D300921L29						30/9/24		
					CME705TW06D011021L30						1/10/24		

4 Oct -9 Oct Sessional -I

Faculty in Charge

Dr. Milind Khanapurkar
HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
7	11Oct - 16Oct	5	III	JSP basics	CME705TW07D111021L31	WT-03	WT-V1-03	Given Task to find out applications for related topic/ give some programs to create java server pages	1) "Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates		11/10/21		
				simple JSP pages.	CME705TW07D121021L32						11/10/21		
				Representing web data	CME705TW07D131021L33						13/10/21		
			IV	database connectivity	CME705TW07D141021L34						13/10/21		
8	18 Oct-22 Oct	5		JDBC	CME705TW07D151021L35	WT-04					18/10/21		
				Dynamic web pages,	CME705TW08D181021L36						20/10/21		
				Dynamic web pages,	CME705TW08D191021L37						20/10/21		
				XML, DTD	CME705TW08D201021L38		WT-V1-04	XML practice program			20/10/21		
					CME705TW08D211021L39						22/10/21		
				XML schema,	CME705TW08D221021L40						22/10/21		
9	25Oct-30Oct	6		DOM, SAX	CME705TW09D251021L41						25/10/21		
				Parsing XML Document using DOM/SAX parser.	CME705TW09D261021L42						25/10/21		
					CME705TW09D271021L43						26/10/21		
			V	Email Tools	CME705TW09D281021L44	WT-05	WT-V1-05	Given task to find out more web application			26/10/21		
				FTP Tools	CME705TW09D291021L45						27/10/21		
					CME705TW09D301021L46						10/11/21		
				WWW,TELNET, PUTTY,	CME705TW09D301021L47						10/11/21		
10	8 Nov-12 Nov	5		DNS, Web Services & Feeds	CME705TW10D081121L48						11/11/21		
					CME705TW10D091121L49						11/11/21		
				SOAP, RSS Feeds	CME705TW10D101121L50								

DAY
MON
TUE
WED
THU
FRI
SAT

Faculty in Charge

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Sanstha's
Lokmanya College of Engineering for Women
Hingna, Nagpur-441110.

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
			VI	Building web Applications,	CME705TW10D111121L51		.	Given program to create cookies and session / implement attack with program		.	15/11/21		
				Cookies sessions.	CME705TW10D121121L52						15/11/21		
11	15 Nov-20 Nov	6		APACHE TOMCAT,Accessibility	CME705TW11D1511121L53	WT-06	WT-V1-06				16/11/21		
					CME705TW11D161121L54						16/11/21		
				Internationalization	CME705TW11D171121L55						17/11/21		
				Types of Web Attack ,Intrusions.	CME705TW11D181121L56						17/11/21		
					CME705TW11D191121L57						18/11/21		
				Web details	CME705TW11D201121L58						18/11/21		
12	22Nov-25 Nov	4	Revision										
			1-8 Dec Sessional II										

Sub Teacher

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Hingna, Nagpur-441110.

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Lab Practicals Plan

CCOEW/ Department of computer Engineering 2020-21

Prof. Sharayu Deote				IANS				Department: CE	

					BatchB 1			Batch B 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
print	print				print	fill	fill	print	fill	fill	fill
1	Breaking shift cipher	CE7IANSW01D110820 P01		vlab	11/8/2020	11/08					
2	Breaking the monoalphbetic substitution cipher	CE7IANSW01D180820 P02			18/8/20	18/08					
3	One time pad and perfect secrecy	CE7IANSW01D250820 P03			25/8/20	25/08					
4	Message Authentication code	CE7IANSW01D100920 P04			1/9/2020						
5	Cryptography hash function and Application	CE7IANSW01D080920 P05			8/9/2020						
6	Sysmetric key Encryption standards(DES)	CE7IANSW01D150920 P06			15/09/2020	15/09					
7	Sysmetric key Encryption standards(AES)	CE7IANSW01D290920 P07			29/09/20						
8	Diffie Hellman Key Establishment	CE7IANSW01D061020 P08			6/10/2020						

9	Public Key cryptosystem	CE7IANSW01D131020P09		13/10/20								
10	Digital Signature	CE7IANSW01D201020P10		20/10/20								

Kavikind

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Maharshi Karve Stree Shikshan Samstha's

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CCOEW/CE / 18-19

LESSON & TEACHING PLAN for GATE Examination

Department of Computer Engineering						
Faculty Name: Prof. Sharayu Deote				Sub:-IANS	Year : 2021-2022	Sem:- 7'th
WEEK No.	Week	No. Of Lect.	Exact Topic Name	Activity/ Teaching Aid /ICT tools/MCQs	Completion Date	Incharge Sign
1	23'rd Aug - 27'th Aug	2	Fundamental of network security	https://www.geeksforgeeks.org/network-security-gq/	27 Aug	
2	30Aug-4Sept	2	Examples on Traditional algorithm	gate-exam.in/cs/computer science/network security	04 Sept	
3	6 Sept-10 Sept	2	Example on mathematical concept used for key generation			
4	13 Sept-18 Sept	2	Examples on advanced algorithm DES,AES etc			

Faculty in Charge

Dr. Milind Khanapurkar
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WEEK No.	Week	No. Of Lect.	Exact Topic Name	Activity/ Teaching Aid /ICT tools/MCQs	Completion Date	Incharge Sign
5	20Sept-24Sept	2	Examples on Key Management			
6	27Sept-1 Oct	2	Examplea on Key Exchange algorithm			

Signature of Subject Teacher

Dr. Milind Khanapurkar
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Lunkiwala College of Engineering for Women
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Maharshi Karve Stree Shikshan Samstha's

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LESSON & TEACHING PLAN for Engineering Physics

Department of Computer Engineering

Faculty Name: Prof. Sharayu Deote		Sub: Information Assurance and Network Security	Year : 2020-21	Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	23Aug - 27Aug	5	I	Security fundamentals ,Introduction Terminology Attacks ,security goals : Authentication & Authorization		Open up Questioning	Cryptography & network security by William stalling	https://docs.google.com/forms/d/e/1FAIpQLSfzcU8Wk0Cxog66kteqW1zRSWS7ZINYxN8WC6dVziCQlgFDCw/viewform?usp=sf_link	25/08		
				Ciber techniques:Substitution and Transposition Various algorithm and its implementation					03/09		
						Examples					
				Attacks ,security goals : Authentication & Authorization		Security			09/09		

Faculty in Charge

Cummins College of Engineering for Women, Hingna, Nagpur-441110

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	30Aug-04 Sept	5	I	One time pad ,Modular Arithmatic ,GCD		Security regarding issues faced by girls	Cryptography & network security by William stalling		07/09		
				stream cipher , secret splitting and sharing					08/09		
				block cipher					13/09	Assignment 01	
				Tutorial					13/09		
3	06 Sept-10 Sept	5	II	eclide algoriths, Chinese Remainder theorm ,		Math's activity	Cryptography & network security by William stalling		04/09	Tutorial	
				Descete Logarithm,					06/09		
				Fermats Theorms							
				Block generation & uses ,ECC					07/09		
				Pentium real mode							
				Tutorial					14/09		

Dr. Milind Khanapurkar
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Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	13 Sept - 18Sept	5	I	Hash Algorithms: SHA-1,MD5		GD on implementation of algorithm			27/09 28/09		
				Cryptograhpy Symmetric key algorithm : DES					15/09		
				AES					20/09		
				Blowfish Algorithm,					18/09		
				Attacks on DES					18/09		
5	20Sept-24Sept	5		Modes of operations		Disscusssion on ATM frauds	Cryptography & network security by William stalling		21/09		
				Linear cryptanalysis and Differential cryptanalysis					22/09		
				Public key algorithm :RSA,Key Exchange					23/09 24/09		
				Tutorial							
			III	Key Management Introduction,					11/10		

Faculty in Charge

Dr. Milind Kharapurkar
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Hingna, Nagpur-441110.

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	29Sept-02Oct	4		Key Management: Generations, Distribution, Updation,					14/10		
				Digital Certificate, X.509 certificates,		Disscussion online frauds			16/10		
				Digital Signature,					18/10		
				Diffiee Hellman Key Exchange					20/10		
7	04 Oct-09 Oct	Sessional I									
8	11Oct-16Oct	5	IV	One Way Authentication,		N/w Security			23/09		
				Kerberos.					27/09		
				Network Security							
				Layer Wise Security Concerns					30/09		
				IPSEC- Introduction, AH and ESP,							
9	18 Oct-22 Oct	5	IV	Tunnel Mode, Transport		GD on implementation of algorithm			2/09		
				Mode,					22/09		
				Security Associations, SSL-Introduction,							

Faculty in Charge

Dr. Milind Khanapurkar
Principal
Maharshi Karve Stree Shikshan Samstha's
Yashoda College of Engineering for Women
Hingna, Nagpur-441110

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Handshake Protocol, Record Layer Protocol.							
				IKE-Internet Key Exchange Protocol.						Tutorial	
10	~~19~~ Oct-~~26~~ Oct	6	V	Intrusion Detection Systems: Introduction,			Cryptography & network security by William stalling				
				Anomaly based							
				Signature Based, Host Based,							
				Network Based Systems.							
				Security Management and Applications							
				Intruders, Intrusion detection, Password management,							
11	~~19~~ Oct-~~26~~ Oct	5		Worms, viruses, Trojans,							
				Virus countermeasures, Firewalls,							
				Firewall design Principals,							
				Trusted system, Electronic							
				Payment: Introduction, Payment types, over internet							
				Diwali Vacation 1Nov-07 Nov							
				Smart Cards, Chip card transactions and						Ass 03	

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	Nov 08 ~~Oct~~ 13 ~~Oct~~ Nov	5	VI	Mobile Payments, Electronic Cash.							
				Cyber Crimes & Laws							
				Introduction, Computer Forensics, Online Investigative tool							
				tracing and recovering electronic							
13	15 ~~Oct~~ Nov 25 ~~Oct~~ Nov		VI	Internet fraud, Cyber Stalking, Identity Theft,							
				Industrial Espionage, Cyber Terrorism.							
				IT LAWS							
		1 Dec-08 Dec Sessional									

Sub. Teacher

Ac

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Hingna, Nagpur-441110.

Faculty in Charge

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Lab Practicals Plan

CCOEW/ Department of Computer Engineering 2020-21

Prof. Suruchi Kitey — Computer Graphics — BatchB 1

Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva	Ac's Remark
1	To study the various Computer Graphics functions.	CE5CGD110820P01			24/8/21	24/8/21		
2	Write a program to generate a line using DDA Algorithm.	CE5CGD180820P02			31/8/21	31/8/21		
3	Write a program to generate a line using generalized Bresenham's algorithm.	CE5CGD250820P03			7/9/2021	7/9/21		
4	Write a program to generate a circle in clockwise direction with center at origin and radius R.	CE5CGD010920P04			14/9/21	14/9/21		21/09
5	To study 2-D Graphics Primitives and Write a program to draw a HUT using Graphics Primitives.	CE5CGD080920P05			21/9/21	28/9/21		
6	Write a program to fill the polygon using simple seed fill algorithm	CE5CGD290920P06			28/9/21	21/9/21		
7	Write a menu driven program for 2-D transformations(translation,scaling).	CE5CGD061020P07			12/10/2021	25/10/21		
8	Write a program to implement a 2-D Rotation.	CE5CGD131020P08			26/10/2021	8/11/21		09/12
9	Write a program to implement mid-point subdivision line clipping algorithm.	CE5CGD201020P09			2/11/2021	15/11		

Sub. Teacher

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Hingna, Nagpur-441110.

CCOEW/AS / 20-21

Date: 23/ 8 / 2021

LESSON & TEACHING PLAN for TCP/IP & Internet

Department of Computer Engineering

Faculty Name: Prof. Abhilasha T. Borkar | Sub: TCP/IP & Internet | Year : 2021-22 | Sem:-V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
1	23Aug - 27Aug	5	1	Introduction to TCP/IP	BSE24TTCPW01D23082021	TCP/IP_01		http://highered.mheducation.com/sites/0073376043/student_view0/chapter_01_-_multiple_choice_quiz.html	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 1, 2-14 Chapter 2,19-40 Chapter 3, 47-80		23|8		
				TCP/IP MODEL	BSE24TTCPW01D020621L02	TCP/IP_02					25|8 26|8, 27|8		
				Comparison of OSI Model and TCP/IP model	BSE24TTCPW01D020621L03	TCP/IP_03					30|8, 31|8 1|9		
				Networking Technologies: LANS, WANS.	BSE24TTCPW01D020621L04	TCP/IP_04					1|9 3|9		
				Networking Technologies: LANS, WANS.	BSE24TTCPW01D020621L05	TCP/IP_05					2|9 6|9, 7|9		20|09
2	30Aug-4 Sep	6	1	Connecting Devices				Physical devices router,switch, ethernet RJ- 45 and PPTS on connecting devices by behrouz foruzan			3|9		
				Internetworking Concepts							8|9		
				Architectural model							8|9		
				Internet Backbones							9|9		
				NAP, ISP's RFC's							14|9		
				Tutorial							14|9	Assignment 1	
3	6 Sep-10 Sep	5	1	Internet Standards.				Plan to show LAN connections	TCP/IP Protocol Suit (fourth		16|9	16|9 21	
				IP address classes							16|9		
				Internet Addresses							17|9		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Sanstha's Cummins College of Engineering for Women Kharghar, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity / Actual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
				Classes,Classful Addressing,Classless Addressing				through video	Edition) By Behruz Foruzan Chapter 5,6 115-150 161-178		2019		
4	13 Sept-18 Sept	6	II	Mask and subnetting				plan to give activity to identify classes and no. of networks and no. of host based on numericals			20|9		
				Numerical based on Masking							20|9		
				Subnet Mask							21|9		
				ARP and RARP					TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 5,6 115-150 161-178		31|9		
				Internet Protocol.,Routing IP Datagram				cisco packet tracer Simulator installation and Perfroming practical based on Protocols and configuration of			-		
				Tutorial							-		
5	20 Sept-24Sept	5	II	Numerical based on Masking							20|9		
				two level and three level addressing							21|9		
				supernetting							22|9		
				Delivery and forwarding technicqs							23|9, 24|9	9/10	
				Delivery and forwarding technicqs					TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 8, 221-237 Chapter 9,245-263 Chapter 13, 375-408 Chapter 14,		25|9		
6	27 Sept- 1 Oct	2	II	Introduction to IPV4				considering student as a object and perform client server communication			28|9		
				Introduction to IPV4							29|9		
				Protocols on different layers							30|9		
				IPV4 Format							29|9		
				IPV4 Format							30|9		
4 OCT-9 OCT(SESSIONAL-1)													
8	11 OCT 16 OCT	6	II	Fragmentation				configuring BGP protocol on packet tracer	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 18, 568 Chapter 19, 582 Chapter 20, 610		29|9	13|10|21	
				ARP							13|10	Assignment 2	
				RARP							11|10		
				IPV6 Addressing							29|9		
				Transisition from IPV4 to IPV6						Kmilind	18|10		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
9	18 OCT 22 OCT	5	III	ICMPv4				Configuration of protocols on packet tarcer			18/10		
				ICMPv4							20/10		
				ICMPv6							20/10		
				Routing Protocol,RIP							26/9		
				OSPF							27/9/11		
10	25 OCT 30 OCT	6	III	BGP				understanding concept by real time example	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 18, 568 Chapter 19, 582 Chapter 20, 610		1/11, 10/11		
				BGP							12/11 (2 Act)		
			IV	Introduction to Mobile IP							21/10	20/10	
				Problem in Mobile IP							22/10		
				Introduction to multicasting							15/11		
11	1 NOV -6 NOV	3	IV	IGMP				configuring HTTP protocol			16/11		
				MOSPF					TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 21,630 Chapter 23,24		17/11		
				DVMPRP							18/11		
				CBT							18/11		
12	8 NOV - 12 NOV	3	V	Introductiuon to Transport layer							22/11		
				UDP and its services							23/11		
				TCP and its services							24/11		
13	15 NOV - 19 NOV	4	V	Flow control,congestion control				understanding concept by real time example			30/11, 2/11		
				SCTP					TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 22, 656		30/11		
				Socket concept							8/12		
				Socket Programming							8/12		

Faculty in Charge

HOD

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Sanstha's
Vanita College of Engineering for Women
Hingna, Nagpur-441110.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment /Tutorial Date	AC's sign
14	22 NOV - 30 NOV	3	VI	DHCP,DNS							4/12,3/12		
				Telnet, SSH							1/12	Assignment 3	
				FTP,TFTP							8/12, 11/12	17/12/21	
				HTTP and Electronic mail							8/12		
				SMTP,POP3,MIME and IMAP							17/12		
15	1 DEC-8 DEC	Sessional II											

Sub. Teacher

Ac

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Faculty in Charge

HOD

Lab Practicals Plan

CCOEW/ Department of Computer Engineering 2(

Prof. A. Borkar	TCPIP and Internet		Department: CE		

		BatchB1			B2			B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
pri	print	print	fill	fill	print	fill	fill	print	fill	fill	fill
1	To study TCP/IP protocol suit	30-09-21	30/9	02	30-09-21	30/9	02	30-09-21	30/9	02	
2	Configure star topology using Hub & Switch	06-09-21	6/9	03	06-09-21	6/9	03	06-09-21	6/9	03	
3	To Configure VLAN on switch	13-09-21	13/9	04	13-09-21	13/9	04	13-09-21	13/9	04	
4	To Configure VLAN on switch with Trunk mode	20-09-21	20/9	05	20-09-21	20/9	05	20-09-21	20/9	05	
5	To configure router and perform communication	27-09-21	18/10	02	27-09-21	18/10	02	27-09-21	18/10	02	
6	To implement NAT(Static,dyanamic,PAT)	04-10-21	26/10	07	04-10-21	26/10	07	04-10-21	26/10	07	
7	To implement RIP Protocol on router	11-10-21	9/11	08	11-10-21	9/11	08	11-10-21	9/11	09	
8	To implement OSPF Protocol on router	18-10-21	16/11	01	18-10-21	16/11	01	18-10-21	16/11	02	
9	Configure BGP Protocol	25-10-21	22/11	02	25-10-21	22/11	02	25-10-21	22/11	2	

Sub. Teacher

Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
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CCOEW/AS / 20-21

Date: 2/ 8 / 2020

LESSON & TEACHING PLAN for Discrete mathematics and grapg theory

Department of Allied Science

Faculty Name: Prof. Sneha Uttarwar | **Sub: DMGT (Sem IV)** | **Branch: CE** | **Year : 2020-21** | **Sem:- IV**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Link for Video	Activity/ Virtual lab	Refrence Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb - 6 Feb	6	I	SET THEORY: Propositions and Logical Operations, Quantifiers,	CE4DMGTW01L01							2/2/2021		
				Conditional Statements and Tautologie	CE4DMGTW01L02	AM_LD_ppt_01						2/3/2021		
				Basic concepts of set theory	CE4DMGTW01L03							2/4/2021		
				Operations on Sets, The power set	CE4DMGTW01L04	AM_EV_ppt_02						2/5/2021		
				Properties of Relations,	CE4DMGTW01L05							2/6/2021		
2	8 Feb-13 Feb	5		Equivalence Relations & Partitions	CE4DMGTW02L06	AM_Caly_ppt_03						2/8/2021		
				Equivalence Relations & Partitions,Compatible Relation	CE4DMGTW02L07							2/8/2021		
				, Manipulation of Relations, Composition of Relations, Transitive	CE4DMGTW02L08	AM_SY_ppt_04						2/9/2021		
				Partial order relation, Partially ordered set	CE4DMGTW02L09							2/10/2021		

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			II	Relations and Digraphs,Matrix of Relation,	CE4DMGTW02L10	AM_DE_ppt_05						2/12/2021	Assi -1_ 12/02/2021	
				Paths in Relations and Digraphs	CE4DMGTW02L11							2/13/2021	Tutorial-I	
3	15 Feb - 20 Feb	5		Hasse Diagrams, Definition, Composition of functions,	CE4DMGTW03L12							2/15/2021		
				Types of Functions, Invertible Function, Permutation Function,	CE4DMGTW03L13	AM_PDE_ppt_06						2/15/2021		
				Types of Functions, Invertible Function, Permutation Function	CE4DMGTW03L14							2/16/2021		
				Characteristics function of a set with Theorems	CE4DMGTW03L15							2/17/2021		
			VI	Generating Functions	CE4DMGTW03L16	AM_PDE_ppt_07						2/18/2021		
				Generating Functions	CE4DMGTW03L17							2/20/2021		
4	22 Feb- 27 Feb	5		Recurrence Relations	CE4DMGTW04L18	AM_PDE_ppt_08						2/22/2021		
				Counting: Permutations	CE4DMGTW04L19							2/23/2021		
				Counting: Permutations & Combinations,P	CE4DMGTW04L20	AM_PDE_ppt_09						2/24/2021	Assi_2 _	
				Pigeonhole Principle with Simple Application	CE4DMGTW04L21							2/25/2021	Tutorial-2	

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				Basic concepts of Graph Theory,	CE4DMGTW04L22							2/26/2021		
				Basic concepts of Graph Theory,	CE4DMGTW04L23	AM_FS_ppt_10						2/27/2021		
5	1 March- 6 March	6	V	Digraphs, Basic definitions	CE4DMGTW05L24							3/1/2021		
				Paths and Circuits, Reachability	CE4DMGTW05L25							3/2/2021		
				Connectedness Subgraphs & Quotient Graphs,	CE4DMGTW05L26							3/3/2021		
				Connectedness Subgraphs & Quotient Graphs,	CE4DMGTW05L27	AM_FT_ppt_11						3/4/2021		
				Isomorphic digraphs & Transitive Closure	CE4DMGTW05L28							3/5/2021		
				digraph, Euler's Path & Circuit (only definitions	CE4DMGTW05L29							3/6/2021		
6	8 March- 13 March	4		digraph, Euler's Path & Circuit (only definitions and examples,	CE4DMGTW06L30							3/9/2021	Tutorial-3	
				Trees, Binary Tree, Labeled Trees,	CE4DMGTW06L31							3/11/2021		
				Undirected Trees,	CE4DMGTW06L32	AM_CI_ppt_12						3/12/2021		
				Spanning Trees of Connected Relations	CE4DMGTW06L33							3/13/2021		
SESSIONAL- I (7 March - 15 March)														
	22 March- 27 march	5		Prim's Algorithm to construct Spanning	CE4DMGTW07L33							4/27/2021		
7				Binary Operations, Properties, Semigroups,	CE4DMGTW07L34							4/28/2021		
				Monoids,	CE4DMGTW07L35	AM_CI_ppt_13						4/29/2021		

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			III	Subsemigroup	CE4DMGTW07L36							4/30/2021	Assi_-3	
				Submonoid,	CE4DMGTW07L37							5/3/2021	Tutorial-4	
10				Isomorphism & Homomorphism Groups (only definitions and	CE4DMGTW08L38							5/5/2021		
				Isomorphism & Homomorphism Groups	CE4DMGTW08L39							5/6/2021		
	29 March - 3 April	4		Rings	CE4DMGTW08L40	AM_LT_ppt_14						5/7/2021		
				Fields, Integral Domain,	CE4DMGTW08L41							5/10/2021		
				Fields, Integral Domain,	CE4DMGTW08L42							5/12/2021		
				Ring Homomorphism (definitions & examples),	CE4DMGTW08L43							5/13/2021		
11				Ring Homomorphism (defi	CE4DMGTW09L44							5/18/2021		
				Ring Homomorphism (definitions & examples),	CE4DMGTW09L45	AM_LT_ppt_15						5/20/2021		
	5 April-10 April	5		Lattices: Properties, Types of Lattices,	CE4DMGTW09L46							5/21/2021		
				Lattices: Properties, Types of Lattices,	CE4DMGTW09L47							5/25/2021		
				Lattices: Properties, Types of Lattices	CE4DMGTW09L48							5/27/2020		
			IV	Isomorphic Lattices,	CE4DMGTW09L49							5/28/2020		
12	12 April-17 April	4		Isomorphic Lattices,	CE4DMGTW10L50	AM_LT_ppt_16						5/31/2021		
				Complemented & Modular Lattices (definitions &	CE4DMGTW10L51							6/1/2021		
				Complemented & Modular Lattices (definitions &	CE4DMGTW10L52							6/2/2021	Assi_21_10_20	

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				Complemented & Modular Lattices (definitions &	CE4DMGTW10L53							6/3/2021	Tutorial- 5	
				Boolean Algebra	CE4DMGTW10L54							6/4/2021		
				Boolean Algebra	CE4DMGTW11L55							6/5/2021		
13	19 April-24 April	5		Properties,Simplification of	CE4DMGTW11L56	AM_CV_ppt_17						6/8/2021		
				Properties,Simplification of	CE4DMGTW11L57							6/10/2021		
				Properties,Simplification of Switching Circuits	CE4DMGTW11L58							6/12/2021`		
				RIVISON	CE4DMGTW11L59							6/16/2021		
				RIVISON	CE4DMGTW11L60							6/18/2021		
16		Sessional II												

Prof. Sneha Uttarwar
Sub. Teacher

Ac

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CCOEW/CE/ 20-21

Date: 29/ 01 / 2021

LESSON & TEACHING PLAN for Microprocessor

Department of Computer Engineering

Faculty Name: Prof. Harshwardhan Kharpate								Sub: Microprocessor			Year : 2020-21		Sem:- IV
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	01 Feb -06 Feb	6	I	Introduction	CE4MPW01D010221L01	MP_CE_PPT_01			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg.No. 1-33		01/02		
				8086 architecture	CE4MPW01D020221L02	MP_CE_PPT_01		Socratic Questioning			02/02		
				8086 architecture	CE4MPW01D030221L03	MP_CE_PPT_01					03/02		
				8086 Pin configuration	CE4MPW01D040221L04	MP_CE_PPT_01					04/02		
				8086Pin configuration	CE4MPW01D050221L05	MP_CE_PPT_01					05/02		
				Software model of 8086 microprocesso	CE4MPW01D060221L06						06/02		
2	08 Feb -13 Feb	5	I	Memory addresses space and data organization. Data types	CE4MPW02D080221L07	MP_CE_PPT_01			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 35		08/02		
				Segment registers, memory segmentatic	CE4MPW02D090221L08						09/02		
				IP & Data registers	CE4MPW02D100221L09	MP_CE_PPT_01					10/02		
				Pointer, Index registers	CE4MPW02D110221L10						11/02		
				Memory addresses generation	CE4MPW02D120221L11			Memory Address Generation Examples			12/02	Tutorial	
3	15 Feb -20 Feb	5	II	8086 Instruction set overview	CE4MPW03D150221L12	MP_CE_PPT_02			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg No. 43		15/02	Assignment	
				Addressing modes	CE4MPW03D160221L13	MP_CE_PPT_02					16/02		
				8086 instruction formats	CE4MPW03D170221L14	MP_CE_PPT_02					17/02		
				Data transfer instructions	CE4MPW03D180221L15	MP_CE_PPT_02					18/02		
				Data transfer instructions	CE4MPW03D200221L16	MP_CE_PPT_02					20/02		
4	22 Feb -27 Feb	5	II	Arithmetic instructions	CE4MPW04D220221L17	MP_CE_PPT_02			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray.		22/02		
				Arithmetic instructions	CE4MPW04D230221L18	MP_CE_PPT_02					23/02		
				Arithmetic instructions	CE4MPW04D240221L19	MP_CE_PPT_02					24/02		
				Programming	CE4MPW04D250221L20			Pass the Problem			25/02		
				Programming	CE4MPW04D260221L21			Programs			26/02	Tutorial	
5	01 Mar- 06 Mar	6		Logical instructions	CE4MPW05D010321L22	MP_CE_PPT_03			Advance Microprocessors and Peripherals.K M		01/03		
				Logical instructions	CE4MPW05D020321L23	MP_CE_PPT_03					02/03		
				Programming	CE4MPW05D030321L24	MP_CE_PPT_03					03/03		
				Shift and rotate instructions	CE4MPW05D040321L25	MP_CE_PPT_03		Role Play			04/03		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
			III	Shift and rotate instructions	CE4MPW05D050321L26	MP_CE_PPT_03			Burchundi & A K Ray.		05/03		
				Programming	CE4MPW05D060321L27			Programs			06/03		
6	08 Mar- 13 Mar	4		8086 flag register and Flag control instr	CE4MPW06D080321L28	MP_CE_PPT_04			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray.		08/03	Assignment	
				compare instruction	CE4MPW06D090321L29	MP_CE_PPT_04					09/03		
				control flow and jump instructions	CE4MPW06D100321L30	MP_CE_PPT_04		Taking Command			10/03		
				control flow and jump instructions	CE4MPW06D120321L31	MP_CE_PPT_04					12/03		
7	15 Mar- 20 Mar	Sessional I											
8	22 Mar- 27 Mar	5	III	Programming	CE4MPW08D220321L32			Programs	Advance Microprocessors and Peripherals.K M Burchundi & A K Ray.		22/03	Tutorial	
				Loops & loop handling instructions	CE4MPW08D230321L33	MP_CE_PPT_04					23/03		
				Programming	CE4MPW08D240321L34						24/03		
			IV	The 8086 stack segment	CE4MPW08D250321L35			Demonstration On Actual Stack Structure			25/03		
				Stack Instruction	CE4MPW08D260321L36	MP_CE_PPT_05					26/03		
9	29 Mar- 03 Apr	4	IV	Stack Instruction	CE4MPW09D300321L37	MP_CE_PPT_05			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray.		30/03		
				8086 I/O Address space	CE4MPW09D310321L38	MP_CE_PPT_05					31/03		
				8086 I/O Address space.	CE4MPW09D010421L39	MP_CE_PPT_05					01/04		
				Subroutines and related instructions	CE4MPW09D030421L40	MP_CE_PPT_05					03/04		
10	05 Apr- 10 Apr	5	IV	Concept of Macros	CE4MPW10D050421L41	MP_CE_PPT_05			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray.		05/04		
				Status saving on stack	CE4MPW10D060421L42						06/04		
				Concept of recursion at assembly program level	CE4MPW10D070421L43						07/04		
				8086 Programming using subroutines, recursion and macros	CE4MPW10D080421L44						08/04		
				8086 Programming using subroutines, recursion and macros	CE4MPW10D090421L45						09/04		
11	12 Apr- 17 Apr	4	V	8086 I/O: Types of input output	CE4MPW11D120421L46	MP_CE_PPT_06			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray.		12/04		
				isolated I/O interface	CE4MPW11D150421L47						15/04		
				input output data transfers	CE4MPW11D160421L48						16/04		
				I/O instructions and bus cycles	CE4MPW11D170421L49						17/04		
12	19 Apr- 24 Apr	4	V	8255 PPI: pin diagram	CE4MPW12D190421L50	MP_CE_PPT_06		Case study	Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg.No.149		19/04	Assignment	
				Internal organization	CE4MPW12D200421L51	MP_CE_PPT_06					20/04		
				modes of operation. 8086 I/O programming using 8255.	CE4MPW12D220421L52	MP_CE_PPT_06					22/04		
				modes of operation. 8086 I/O programming using 8255.	CE4MPW12D230421L53	MP_CE_PPT_06					23/04		
13	26 Apr- 01 May	5	VI	8086 Interrupts types	CE4MPW13D260421L54	MP_CE_PPT_07			Advance Microprocessors and Peripherals.K M Burchundi & A K Ray. Pg.No.223		26/04		
				priority and instructions.IVT	CE4MPW13D270421L55	MP_CE_PPT_07					22/04		
				Software interrupts. Non-maskable interrupts	CE4MPW13D280421L56	MP_CE_PPT_07					28/04		
				. Programmable Interrupt Controller 8259: pin diagram	CE4MPW13D290421L57	MP_CE_PPT_07					29/04		
				Internal Organization	CE4MPW13D300421L58	MP_CE_PPT_07					30/04		
14	03 May- 07 May	5	VI	Internal Organization	CE4MPW14D030521L59	MP_CE_PPT_07					30/04		
				Programming 8259	CE4MPW14D040521L60			Programs				Tutorial	
				Programming 8259	CE4MPW14D050521L61			Programs					
15		Sessional II											

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CCOEW/CE / 20-21

Date: 29/ 1 / 2021

LESSON & TEACHING PLAN for File Structure & Data Processing

Department of Computer Engineering

Faculty Name: Prof. S.Khamankar								Sub: FSDP		Sec:	Year : 2020-21		Sem:- IV
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no.edition	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1Feb - 6Feb	6	I	File structure design	CME402TW01D10221L01	FSDP-01	FSDP-V1-01	given task to find out examples of logical & physical file	File Structres An object - oriented Approach with C++ by Michael Folk,Greg Riccardi,Bill Zoellick pg-28,41,45,46, 53,55,72 to117		1/2/2021		
				File processing operations :open, close	CME402TW01D10221L02						2/2/21		
				File processing operations : read, write, seek.	CME402TW01D10221L03			small program writing on file oeration PPT /images https://www.youtube.com/watch?v=NtPc0jl21i0 show the video			3/2/21		
				Unix directory structure,Secondary storage devices: disks,	CME402TW01D10221L04						4/2/21		
				tapes	CME402TW01D10221L05			Students can demonstrate harddisk,CD-Rom in e-waste room with Sachin H. along with MCQ's			5/2/21		
				CD-ROM	CME402TW01D10221L06						6/2/21		
2	8Feb-12Feb	5		Buffer management	CME402TW01D10221L07						8/2/21		
				I/O in Unix.	CME402TW01D10221L08						9/2/21		
				I/O in Unix.	CME402TW01D10221L09						10/2/21		
				File Structure Concepts: Field	CME402TW01D10221L10						11/2/21		
				File Structure Concepts: record organ	CME402TW01D10221L11						11/2/21		
				Using classes to manipulate buffers,	CME402TW01D10221L12				FS-chpt-4-pg-160		15/2/21		

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				Selective indexes, Binding.	CME402TW01D10221L29					x	29/4/21 30/4/21		
7	**~~15Mar-20Mar Sessional -I~~**												
8	3 May – 7th May ~~22Mar-27Mar~~	5	IV	Cosequential processing : Object-Oriented model its application	CME402TW01D10221L30	FSDP-04	FSDP-V1-04	Code practise for sorting	FS-chpt-8-pg-317,FS-chpt-8-pg-327		3/5/21		
				Internal sorting: a second look.	CME402TW01D10221L31						4/5/21		
				File Merging :Sorting of large files on disks.	CME402TW01D10221L32			Activity given based on Data Structures also given task to find out small application based on the concept of tree structure			5/5/21		
					CME402TW01D10221L33				FS-chpt-8-pg-337		6/5/21		
				Sort merge packages.	CME402TW01D10221L34				chpt-8-pg-378		7/5/21		
9	10May – 15 May ~~29Mar-3Apr~~	4		Sorting and Cosequential processing in unix	CME402TW01D10221L35				FS-chpt-8-pg-381		10/5/21		
					CME402TW01D10221L36				FS-chpt-8-pg-382		11/5/21		
				Multilevel indexing :	CME402TW01D10221L37				FS-chpt-9-pg-396		12/5/21		
				Indexing using Binary Search trees.	CME402TW01D10221L38				FS-chpt-9-pg-397		13/5/21		
10	24 May – 28 May ~~5Apr-9Apr~~	5		OOP based B-trees.	CME402TW01D10221L39				FS-chpt-9-pg-398		15/5/21		
				B-tree methods Search	CME402TW01D10221L40				FS-chpt-9-pg-420		24/5/21		
					CME402TW01D10221L41						25/5/21		
				Insert and others.	CME402TW01D10221L42				FS-chpt-9 pg-421		26/5/21		
				Deletion, merging & redistribution.	CME402TW01D10221L43				FS-chpt-9-pg-429,432		27/5/21		
					CME402TW01D10221L44						28/5/21		
				B*trees	CME402TW01D10221L45				FS-chpt-9-pg-434		28/5/21		

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11	3 May – ~~12Apr-17Apr~~ 5 JUNE	5	V	B+ tree	CME402TW01D10221L46	FSDP-05	FSDP-V1-05	Presentation/ grp Discussion/Gooogle Search data collection/ Aniamted Videos/Assignments/ Chart Preparation			31/5/24		
				B++ tree	CME402TW01D10221L47						1/6/24		
				Virtual B-trees.	CME402TW01D10221L48				FS-chpt-9-pg-435		2/6/24		
				VL records & keys.	CME402TW01D10221L49				FS-chpt-9-pg-439		3/6/24 ~~2/6/24~~		
12	7 JUN – 11 June ~~19Apr-24Apr~~	5		Indexed sequential file access	CME402TW01D10221L50				FS-chpt-10-pg-450		7/6/24 8/6/24		
				Indexed sequential file access	CME402TW01D10221L51				FS-chpt-9-pg-461		9/6/24		
				Prefix B+trees.	CME402TW01D10221L52				FS-chpt-9-pg-461		9/6/24		
				Prefix B+trees.	CME402TW01D10221L53				FS-chpt-9-pg-461		9/6/24		
13	14 June – 19 JUNE ~~26Apr-1May~~	5	VI	Hashing : Introduction	CME402TW01D10221L54	FSDP-06	FSDP-V1-06	Task given to find out various methods of record access and find out differnces within them & MCQ's	FS-chpt-11-pg-490		10/6/24		
				simple hashing algorithm.	CME402TW01D10221L55				FS-chpt-11-pg-494		10/6/24		
				Hashing functions	~~CME402TW01D10221L56~~				FS-chpt-11-		11/6/24		
				record distributions.	~~CME402TW01D10221L57~~				FS-chpt-11-		12/6/24		
				Collision resolution.	CME402TW01D10221L5				FS-chpt-11-		12/6/24		
				Buckets. Making deletions.	CME402TW01D10221L5				FS-chpt-11-		13/6/24		
				Pattern of record access.Implementation.	CME402TW01D10221L60				FS-chpt-12-pg-553,556		14/6/24		
					CME402TW01D10221L6				FS-chpt-12-		14/6/24		
				Performance, Alternative approaches.	CME402TW01D10221L62				FS-chpt-12-pg-574,577		15/6/24		
				Performance, Alternative approaches.	CME402TW01D10221L63				FS-chpt-12-pg-574,577		17/6/24		
14	3May-7May	5		Revision									
	~~10May-15May~~ Sessional -II												

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

COMPUTER ENGINEERING

Session:-2020-21

Faculty Name: Prof. Sharayu J Deote						Sem:-VI CE		Subject: DBMS		
Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb-6 Feb	6	1	**UNIT I: Introduction to Database Systems** Database Systems: Significance and advantages, Types of Databases, the DBMS Environment Limitations of File processing system,		1. Abraham Silberschatz, Henry F. Korth and S. Sudarshan, 5th Edition, McGraw Database System Concepts 5th Edition, McGraw		08/02		
2	8 Feb-12 Feb	6		DBMS Architecture, Functions of DBMS, Data Abstraction, Data Independence, Formal relational query languages: Relational Algebra,	1.Drawing competition 2.Make group of 6 to 5 students ,give copy of prepare comparative table for symbols used 3.Practice Query examples	Hill (SIE), 2013. pg no. 1 to 28 ,chno 1 ch no 5 ,pg no 163 to 198 from same book				
3				Tuple Relational calculus, Domain Relational Calculus.				13/02		

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

COMPUTER ENGINEERING

Subject: - DBMS

AY - 20-21

Semester: - 6th

Sr. No	Name of Practical	B1		B2		B3			
		Planed Date	Performed Date	Planed Date	Performed Date	Planed Date	Performed Date	No. of Viva done	AC's Remark
1	Introduction to SQL Environment and Application of DBMS,To Study DDL & DML Command & use it for banking database	01/02	01/02	02/02	02/02	05/02	05/02		
2	To study types of select.....where clause ,Use of Order by ,Group by & Date clause	08/02	01/02	02/02	02/02	05/02	05/02		
3	To implement nested query (sub query) by using **IN** &**NOT IN** clause	08/02	08/02	09/02	09/02	12/02	12/02		
4	To implement various types of **SET OPERATORS (UNION , INTERSECT, MINUS)** On banking application	19/04	14/04	20/04	20/04	11/04	16/04		
5	To apply SQL Aggregate Functions on banking application**(AVG,COUNT ,SUM,MIN,MAX)**	26/04	14/04	27/04	20/04	30/04	30/04		
6	Study and implementation all **JOIN** Operators	24/05	24/05	25/05	25/05	28/05	28/05		
7	Study **WITH** clause & create **VIEW**	7/06	07/06	08/06	08/06	11/06	11/06		

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8	***PL/SQL** programs*	14/06	14/06	15/06	15/06	18/06	18/06		
9	Design ofE-R diagram Apply Normalization on database	21/06	21/06	22/06	22/06	25/06	25/06		
10	Application development (case study)(Database Connectivity)	28/06	28/06	28/06	28/06	29/06.	29/06.		

NAME & SIGNATURE OF SUBJECT TEACHER

Signatures of AC

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Date: 29/ 01 / 2021

LESSON & TEACHING PLAN for System Software

Department of Computer Engineering

Faculty Name: Prof. Harshwardhan Kharpate | Sub: System Software | Year : 2020-21 | Sem:- VI

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPT ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	01 Feb -06 Feb	6	I	Introduction/Background of Subject	CE6SSW01D010221L01	SS_CE_PPT_01			Systems Programming By John J. Donovan. Tata McGraw Hill. Pg. No. 1-38		01/02		
				Definition, Components of system softw	CE6SSW01D020221L02	SS_CE_PPT_01					02/02		
				Evolution of system software	CE6SSW01D030221L03	SS_CE_PPT_01					03/02		
				Language translators, Machine Structure, Machine Language	CE6SSW01D040221L04						04/02		
				Assembly Language instructions	CE6SSW01D050221L05						05/02		
				Assemblers	CE6SSW01D060221L06	SS_CE_PPT_01					06/02		
2	08 Feb -13 Feb	5	I	Structure of an assembler	CE6SSW02D080221L07	SS_CE_PPT_01			Systems Programming By John J. Donovan. Tata McGraw Hill. Pg. No. 59		08/02		
				Design of two pass assembler and Single Pass assembler	CE6SSW02D090221L08	SS_CE_PPT_01		Assembler Role Play			09/02		
				Design of two pass assembler and Single Pass assembler	CE6SSW02D100221L09	SS_CE_PPT_02					10/02	Tutorial	
				Data structures used for design of assembler	CE6SSW02D110221L10						11/02		
				Design and Implementation of two pass assembler	CE6SSW02D120221L11	SS_CE_PPT_02					12/02		
3	15 Feb -20 Feb	5	I	Error handling and Symbol Table management	CE6SSW03D150221L12	SS_CE_PPT_02			Systems Programming By John J. Donovan. Tata McGraw Hill. Pg. No. 77		15/02		
				Handling constants, literals, labels and Procedures	CE6SSW03D160221L13						16/02	Assignment	
				Numericals based on assemblers	CE6SSW03D170221L14			Numericals Solving			17/02		
				Numericals based on assemblers	CE6SSW03D180221L15						18/02		
				Cross assembler.	CE6SSW03D200221L16						20/02		
4	22 Feb -27 Feb	5	II	Macro language and macro processor	CE6SSW04D220221L17	SS_CE_PPT_01			Systems Programming By John J. Donovan. Tata McGraw Hill. Pg. No. 111		22/02		
				macro instructions	CE6SSW04D230221L18						23/02		
				features of macro facility, macro instruction arguments	CE6SSW04D240221L19						24/02		
				conditional macro expansion	CE6SSW04D250221L20	SS_CE_PPT_01					25/02		
				macro call within macros	CE6SSW04D260221L21	SS_CE_PPT_01					26/02		
5	01 Mar- 06 Mar	6	II	macros instructions defining macros	CE6SSW05D010321L22	SS_CE_PPT_01			Systems Programming By John J. Donovan. Tata McGraw Hill. Pg. No.149		01/03		
				Implementation	CE6SSW05D020321L23	SS_CE_PPT_03		Numericals Solving			02/03		
				Implementation	CE6SSW05D030321L24	SS_CE_PPT_03					03/03		
				Examples	CE6SSW05D040321L25	SS_CE_PPT_03					04/03		
			III	Basic Loader functions	CE6SSW05D050321L26	SS_CE_PPT_01					05/03		
				Loader schemes, "Complier and go" Loaders	CE6SSW05D060321L27	SS_CE_PPT_01					06/03		
6	08 Mar- 13	4	III	absolute loaders	CE6SSW06D080321L28	SS_CE_PPT_01			Systems Programming By		08/03		
				subroutine linkages	CE6SSW06D090321L29	SS_CE_PPT_01					09/03		

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	Mar			relocating loaders	CE6SSW06D100321L30	SS_CE_PPT_01			John J. Donovan. Tata McGraw		10/03		
				direct linking loaders	CE6SSW06D120321L31						12/03		
7	15 Mar- 20 Mar			**Sessional I**									
8	22 Mar- 27 Mar	5	III	direct linking loaders	CE6SSW08D220321L32				Systems Programming By John J. Donovan. Tata McGraw Hill. Pg. No.168		22/03		
				Binders, linking loaders, Overlays, Dynamic Binders	CE6SSW08D230321L33	SS_CE_PPT_06					23/03		
				Design of an absolute Loaders	CE6SSW08D240321L34						24/03		
				Design of a Direct – Linking loaders	CE6SSW08D250321L35	SS_CE_PPT_04		Problems Solving on Loaders			25/03		
				Design of a Direct – Linking loaders	CE6SSW08D260321L36	SS_CE_PPT_04					26/03		
9	29 Mar- 03 Apr	4	III	Examples on Implementation	CE6SSW09D300321L37				Systems Programming By John J. Donovan. Tata McGraw		30/03	Tutorial	
				Examples on Implementation	CE6SSW09D310321L38						31/03		
			IV	Basic Compiler Function	CE6SSW09D010421L39	SS_CE_PPT_05					01/04		
				Phases of Compiler	CE6SSW09D030421L40	SS_CE_PPT_05					03/04	Assignment	
10	05 Apr- 10 Apr	5	IV	Phases of Compiler	CE6SSW10D050421L41	SS_CE_PPT_05			Systems Programming By John J. Donovan. Tata McGraw Hill. Pg. No.279		05/04		
				Lexical Analysis	CE6SSW10D060421L42	SS_CE_PPT_05					06/04		
				Syntax analysis Grammars	CE6SSW10D070421L43	SS_CE_PPT_05					07/04		
				Introduction to Top down v/s bottom up parsing	CE6SSW10D080421L44						08/04		
				Semantic Analysis and SDT	CE6SSW10D090421L45	SS_CE_PPT_05					09/04		
11	12 Apr- 17 Apr	4	IV	three address code intermediate code fo	CE6SSW11D120421L46				Systems Programming By John J. Donovan. Tata McGraw Hill.		12/04		
				Compiler generation tools	CE6SSW11D150421L47						15/04		
				LEX and YACC	CE6SSW11D160421L48	SS_CE_PPT_05					16/04		
				Interpreters	CE6SSW11D170421L49						17/04		
12	19 Apr- 24 Apr	4	V	Unix Device Drivers	CE6SSW12D190421L50	SS_CE_PPT_06			Device Drives for Windows by Norton, Add Wesley.		19/04		
				Device Programming	CE6SSW19D200421L51						20/04		
				Installation and Incorporation of driver routines	CE6SSW19D220421L52						22/04		
				Basic device driver operation	CE6SSW19D240421L53	SS_CE_PPT_06					24/04		
13	26 Apr- 01 May	5	V	Implementation with Line printer	CE6SSW13D260421L54	SS_CE_PPT_06			Intel®64 and IA-32 Architectures Software Developer's Manual Volume1: Basic		26/04		
				Implementation with Line printer	CE6SSW13D270421L55						27/04		
				Comparative study Unix/Windows	CE6SSW13D280421L56						28/04		
			VI	Case study of Intel®64 and IA-32	CE6SSW13D290421L57			Case study			29/04		
				Basic architecture	CE6SSW13D300421L58						30/04		
14	03 May- 07 May	5	VI	brief history of Intel® 64 and IA-32 Architecture	CE6SSW14D030521L59	SS_CE_PPT_07			The Intel Microprocessors Processor by Barry B. Brey, 4th Edition, Prentice-Hall.		03/05	Assignment	
				Intel NetBurst® Micro-architecture	CE6SSW14D040521L60						04/05		
				Basic execution environment	CE6SSW14D050521L61						05/05		
				Basic execution environment	CE6SSW14D060521L62						06/05		
				Basic execution environment	CE6SSW14D070521L63						07/05		
16		**Sessional II**											

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CCOEW/CE / 20-21

Date: 28/ 1 / 2021

LESSON & TEACHING PLAN for Software Engineering and Project Management

Department of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Sub: SEPM | Sec | Year : 2020-21 | Sem:- VI

WEEK No.	Week	No. Of Lec	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb - 6 Feb	6	I	Introduction,CO Discussion evolving role of software software characteristics software myths software process,software engineering software development phases	CE6SEPMW01D01221L01	SEPM_ppt_01		Using various examples for models	"Pressman R., ""Software Engineering, A Practitioners Approach"", Tata MCGraw Hill Publication pg 34,36,45,53,54,71, 79,80,81,83,86,88, 106,110"		1/2/21		
					CE6SEPMW01D02221L02						2/2/21		
					CE6SEPMW01D03221L03						3/2/21		
					CE6SEPMW01D04221L04						4/2/21		
					CE6SEPMW01D05221L05						5/2/21		
					CE6SEPMW01D06221L06						8/2/21		
2	8 Feb - 12 Feb	5		waterfall model,RAD model prototype model incremental model spiral model,WINWIN spiral model,concurrent,agile process extreme programming	CE6SEPMW02D08221L07	SEPM_ppt_02					9/21		
					CE6SEPMW02D09221L08						10/2 11/2		
					CE6SEPMW02D10221L09						12/2		
					CE6SEPMW02D11221L10						15/2		
					CE6SEPMW02D12221L11						17/2 18/2		
3	15 Feb - 20 Feb	6	II	System Engineering: Hierarchy Business Process and Product Engineering: Overview Requirements Engineering,Initiating the process, Eliciting	CE6SEPMW03D15221L12	SEPM_ppt_03		Actiity and state diagram for any problem statement	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 157-162,176,181,184,1		22/2		
					CE6SEPMW03D16221L13						23/2		
					CE6SEPMW03D17221L14						24/2 25/2		
					CE6SEPMW03D18221L15						26/2		
					CE6SEPMW03D19221L16						1/03	4/3	
					CE6SEPMW03D20221L17						2/3		
					CE6SEPMW04D22221L18			Elicting			3/3 4/3		
				Negotiating,	CE6SEPMW04D23221L19						5/3		

Faculty in Charge

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HOD

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CCOEW/CE/ 20-21

Date: 1/ 2 / 2021

LESSON & TEACHING PLAN for UNIX AND SHELL PROGRAMMING

Department of COMPUTER ENGINEERING

Faculty Name: Prof. SHAILESH SAHU							Sub: Unix and Shell Programming			Sec: -	Year : 2020-21		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
1	01/02/21 06/02/21	6	1	General Overview of the system: System Structure (Architecture of UNIX Systems). User Perspective (The file system, Processing Environment.)	CE8USPW01D 060221L01	USP-SS-PPT1			The Design of Unix Operating System by- M.J Bach (4-36)				
2	08/02/21 12/02/21	5		(Building Block Primitives),Operating systems services.Assumption about hardware (Interrupts and Exceptions, Processor Execution Levels, Memory Management).				UNIX COMMANDS			~~02-06-2021~~ 12/02/21		
3	15/02/21 20/02/19	6	2	Introduction to kernel: Architecture of the UNIX Operating System (Block Diagram of the system Kernel). Tutorial.	CE8USPW01D 200221L12	USP-KA-PPT2					20/02/21		
4	22/02/21 26/02/21			Introduction to system Concepts (An Overview of the File Subsystem,Processes-State and Transitions). Kernel data structures,System administration.					The Design of Unix Operating System by- M.J Bach (38-56)		~~02-12-2021~~ 25/02/21	26/02 Assigned	

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Subject Teacher

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
5	01/03/21 06/03/21	6	2	The Buffer cache: Buffer headers, structure of Buffer pool, Scenarios for retrival of a buffer.(Scenarios no. 1 to 5) Reading and writing disk blocks. Tutorial.	CE8USPW01D 060321L23	USP-BC-PPT3		C PROGRAM	The Design of Unix Operating System by- M.J Bach (38-56)		~~20/2/2021~~ 05/03/21		
6	08/03/21 12/03/21	5	3	Internal representation of files: Inodes (Definition, Accessing Inodes, Releasing Inodes).Structure of regular files.	CE8USPW01D 120321L29	USP-IN-PPT4		C PROGRAM	The Design of Unix Operating System by- M.J Bach(67-88)		~~26/02/2021~~ 12/03/21		
7				**15/03/21 to 20/03/21**					**Sessional - I**				
8	22/03/21 26/03/21	5	3	Directories.conventions of a path name of nodes (Algo-namei). Super block.Inode assignment to a new file (Algo-ialloc). Allocation of a disk block, other file types. Tutorial.	CE8USPW01D 260321L34	USP-IN-PPT4		UNIX COMMANDS	The Design of Unix Operating System by- M.J Bach(67-88)		26/03	2nd Assignment	
9	30/03/21 03/04/21	6	4	System calls of the file systems: Open, Read,Write. File and record coding seek.close, file creation, creation of special fileschange directory, root, mode and owner.	CE8USPW01D 030421L39	USP-FSC-PPT5		C PROGRAM	The Design of Unix Operating System by- M.J Beach (91-140)		03/04		
10	05/04/21 09/04/21	5	4	stat, fstat, pipes, dup mounting and unmounting file system, File system abstraction and maintenance. Tutorial.	CE8USPW01D 090421L45	USP-FSC-PPT9		C PROGRAM			9/04		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
11	12/04/21 17/04/21	6	5	The structure of the Processes:Process states and transitions Layout. Layout of System memory, Contex of the process, saving the contex of the process.	CE8USPW01D 170421L50	USP-SP-PPT10		C PROGRAM	The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)		17/04		
12	19/04/21 23/04/21	4	5	Manipulation of the process address space, sleep. Process control-Creation. Signal, termination, awaiting process termination, Invoking other programms. UID of a process, changing size of process,The shell, the system boot and the INIT process. Tutorial.	CE8USPW01D 230421L56	USP-PC-PPT11		C PROGRAM AND UNIX COMMANDS	The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)		23/04	Assignment	
13	26/04/21 01/05/21	6	6	Interprocess Communication: Process tracing, System V IPC.Network communications, sockets. Managing the system and network connection in any LINUX version: Monitoring resources, Mastering Time.	CE8USPW01D 010521L60	USP-IPC-PPT12		GUEST LECTURE	Ubuntu Linux, Toolbox by Christopher Nequs.		01/05		
14	03/05/21 07/05/21	6	6	Managing boot process, Controlling startup and Run levels. Configuring networks from the GUI, Managing Network Interface cards, Connections: using wireless connections, Troubleshooting network problems. Tutorial.	CE8USPW01D 070521L66	USP-BPC-PPT-13			Ubuntu Linux, Toolbox by Christopher Nequs.		03/05		
15				10/05/21 to 15/05/21					Sessional - II				

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Lab Practicals Plan 20-21 (EVEN)

CCOEW/ Department of Computer Engineering

S.Khamankar					DSGC		SEM-VIII	Department: CE Section			
					BatchB 1			Batch B 2			
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
print	print				print	fill	fill	print	fill	fill	fill
1	Write a program in JAVA for implementing client server communication model	BECME802PD1022021P01	For each practical I created extra practical list which I mailed to students for	Given task then to find various editior in which they can perform the practical	02-01-21	7/1/21	10	2-1-21	2/1/21	17	
2	Write a program to implement the concept of Lamport's clock in C.	BECME802PD8022021P02			02-08-21	8/2/21	10	8/2/21	8/2/21	15	
3	Write a program to implement the concept of Vector's clock in C	BECME802PD1522021P03			15/2/2021	15/2/21	15	15/2/21	15/2/21	14	
4	Write a program in C to implement simulation of distributed mutual exclusion .	BECME802PD2222021P04			22/2/2021	22/02/21	19	22/2/21	22/2/21	12	
5	Implement "JAVA RMI" mechanism for accessing method of remote system	BECME802PD5042021P05			04-05-21	5/4/21	18	5/4/21	12/4/21	10	
6	Implementation of CORBA mechanism.	BECME802PD12042021P06			04-12-21	12/4/21	17	12/4/21	15/4/21	19	

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7	To study guidelines toolkit for modeling and simulating grid computing environment	BECME802PD19042021P07	variations		19/4/2021	19/4/21	15	19/4/21	19/4/21	18	
8	Installation and configuration of Hadoop	BECME802PD26042021P08			26/4/2021	26/4/21	14	24/4/21	5/3/21	17	
9	Develop a web page to play video file using <Embed>	BECME802PD03072021P09			05-03-21	5/3/21	13	5/3/21	10/5/21	15	
10	Squid installation and configuration	BECME802PD10072021P10			05-10-21	10/5/21	12	10/5/21	07/5/21	13	

Subject-Teacher

Ac

BECME307P

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial	AC's sign
3	15 Freb-20 Feb	5	II	Clocks,Events and process state	CME802TW03D13221L13	DSGC-02	DSGC-V1-02	for understanding the concept of clock synchronization …forming the group of 5 student and setting the clock and dictacting the message to each group and let them synchronise with that message	Chap 4,71-80		13/2/24		
				Synchronizing Physical clocks	CME802TW03D14221L14						14/2/24		
				Logical time,Logical clocks	CME802TW03D15221L15						15/2/24		
				Global states	CME802TW03D16221L16						16/2/24		
4	22Feb-26Feb	5		Distributed debugging	CME802TW04D170221L17						17/2/24		
				Coordination	CME802TW04D22/2/24L18						28/2/24		
				Agreement	CME802TW04D29/2/24L19						29/2/24		
				Distributed mutual exclusion	CME802TW04D20/2/24						26/2/24		
5	1Mar-6Mar	6		Token based algorithm	CME802TW04D27/2/24						25/2/24		
			III	Lamports Algorithm	CME802TW05D010321L22	DSGC-03	DSGC-V1-03	for understanding the concept of shared memory board consider as a shared memory and student allow to write anything on it like message ,note etc.	"Distributed Operating system" M.A.Ansari chap 6		1/3/24		
				Ricart Aggrwala Algorithm	CME82TW05D02321L23						2/3/24		
				Suzuki Kasamis Algorithm	CME82TW05D03321						3/3/24		
				Raymond Tree based and Singhal herustics algorithm	CME82TW05D04321						4/3/24		
6	6Apr-9Apr	4		Introduction	CME802TW06D080321L28						6/4/24		
				Distributed file systems	CME802TW06D09/4/24L29						7/4/24		
				Design issues	CME802TW06D10/4/24L30						8/4/24		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial	AC's sign
				Distributed Shared Memory	CME802TW06L2						9/4/21		
7	12Apr-16Apr	5	III	Introduction to middleware technology	CME802TW07D2203221 L32	DSGC-03	DSGC-V1-03	CORBA is middelware and mostly used technology so giving the student middelware as a topic and study it and do anylysis why corba is popular	Distributed system consept and design forth edition by George Coulouris. Chap 8,18		12/4/21		
				Introduction to middleware technology							13/4/21		
				Design issues							14/4/21		
				Implementation issues							15/4/21		
				CORBA Case Study							16/4/21		
8	19Apr-23Apr	4		CORBA Case Study Types	CME802TW08D300321L 37						19/4/21		
				RMI-Remote Method Invocation							20/4/21		
				RMI-Remote Method Invocation							21/4/21		
				CORBA services							22/4/21		
9	26Apr-30Apr	5 I & II		Revision of Unit I and II									
3'rd May -7'th May Sessional -I													
10	10May - 15 May	5	IV	Grid Computing	CME802TW09D050421L 41			understanding the concept of grid computing by real time example of solar plant	"Grid Computing" Ahmar Abbas PDF from Internet		10/5/21		
				Grid Computing models							11/5/21		
				Protocols, Types of Grid							12/5/21		
				Desktop Grid,cluster grid							13/5/21		
				HPC Grid,Data Grids							14/5/21		
				Message Passing Interface (MPI)	CME802TW10D100421L 46						15/5/21		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial	AC's sign
				Procedures,	CME802TW10D090421L47						17/5/24		
11	17May-21 May	5	V	Arguments ,Data Types			DSGC-V1-05	for message passing student will chat on whats app..one to one there will be message passing one to all there will be collective communication..i	John.Rittinghouse "Cloud Computing " PDF from Internet		18/5/24		
				Processes ,Platform independence		DSGC-05					19/5/24		
				Error Handling							20/5/24		
				Point-to-Point Communication							21/5/24		
12	24 May-28May	5		Collective Communication	CME802TW12D190421L52						24/5/24		
				Error Handling							25/5/24		
				Platform independence							26/5/24		
				Process Technologies							27/5/24		
			VI	Introduction of cloud computing							28/5/24		
				Characteristics,Benefits of cloud							28/5/24		
13	31 May-5 June	5		Cloud models	CME802TW13D190421L57	DSGC-06	DSGC-V1-06	plan to give them case study on cloud	John.Rittinghouse "Cloud Computing " PDF from Internet		31/5/24		
				Service models : IaaS, PaaS, SaaS							1/6/24		
				Deployment models							2/6/24		
				Public cloud							3/6/24		
				Private cloud							4/6/24		
				Hybrid cloud							5/6/24		
				Community cloud									
				Cloud Architecture									
7'th June-11'th June Sessional -II													

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Author no, Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Time based authoring tools.	CME804TW05D050321L25						05/03		
6	08 Mar - 12 Mar	5	III	Text: About Fonts and Faces - Using Text in Multimedia - Designing with Text - Hypermedia	CME804TW06D080321L26	MMTCH03		1. study of the fonts	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH Page no 20 to 60		08/03		
				The Power of Hypertext - Using Hypertext - Hypermedia Structures - Hypertext	CME804TW06D090321L27			2. study in the deonagari and lipi			09/03		
				Tools, Images: Making Still Images – Bitmaps - 1 bit images - 8-bit gray level images - 8-bit	CME804TW06D100321L28			3. analysis of the different types of fonts			10/03		
				color images- Dithering- 24 bit color images - Vector Drawing - Vector-Drawn Objects vs.	CME804TW06D110321L29			4. specifict fonts			11/03		
				Bitmaps- 3-D Drawing and Rendering – Color - Understanding Natural Light and Color -	CME804TW06D120321L30						12/03		
	SESSIONAL 01 15 MAR TO 20 MAR												
7	22 Mar to 26 Mar	5	III	Sound : The Power of Sound -	CME804TW07D220321L30			1. Activity on how to identify the sound	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH Page no 104 to 131		22/03		
				Digital Audio - Making Digital Audio Files - MIDI Audio - MIDI vs. Digital Audio - Multimedia	CME804TW07D230321L31			2. what is quality of sound			23/03		
				System Sounds - Adding Sound to Your Multimedia Project - Audio Recording -	CME804TW07D240321L32						24/03		
				Keeping Track of Your Sounds - Audio CDs - Sound for Your Mobile - Sound for the Internet.	CME804TW07D250321L33						25/03		
				Animation. the Power of Motion- Principles of Animation - Animation by Computer –Animation	CME804TW07D260321L34						26/03		
8	29 Mar to 03 April	5	IV	Data Compression: Need for Data compression -	CME804TW08D290321L35	MMTCH04		1. data and image diffrence	Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI Page no 165 to 287		29/03		
				General Data compression Scheme - Compression standards	CME804TW08D300321L36			2. mobile apps			30/03		
				Non-lossy compression for images -	CME804TW08D310321L37			3. diffrence for Mobile data and computer data			31/03		
				Lossy compression for Photographs and video -	CME804TW08D010421L38			4. study to analysis the different data and compression			01/04		
				Hardware Vs Software Compression.	CME804TW08D020421L39			5 study of various image editing and video editing tools.			02/04		
9	05 April to 09 April	5		Compression Schemes and standards:(Only Concepts of) Binary image compression,	CME804TW09D050421L40			6. conversion of the self image into grey scale with frame and image techniques	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH Page no 68 to 97, 164 to 179		05/04		
				Color, Gray Scale image compression - JPEG, video image compression - Multimedia Standards	CME804TW09D060421L41						06/04		
				Video - Requirements for Full-motion Video Compression –	CME804TW09D070421L42						07/04		
				MPEG - Audio compression -	CME804TW09D080421L43						08/04		
				Fractal compression - advantages / disadvantages	CME804TW09D090421L44						09/04		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Ch no,edition no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
10	12 April to 17 April	5	V	Data and File Format Standards: Popular File Formats - RTF, RIFF, GIF, PNG, TIFF, MIDI,	CME804TW10D120421L45	MMTCH05		1. find the diffrence between variosu types of images	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH Page no 196 to 254		12/04		
				JPEG, JFIF, AVI,WAV, BMP,WMF, MIX, MPEG standards - TWAIN. Multimedia Databases.	CME804TW10D130421L46			2. worked on the storage capacity			13/04		
				Storage and Retrieval - Database Management systems -	CME804TW10D140421L47			3. team developemnt			14/04		
				Database Organization and Transaction	CME804TW10D150421L48						15/04		
				management for multimedia systems.	CME804TW10D160421L49						16/04		
11	19 April to 23 April	6		Multimedia Skills: The Team - Project Manager -	CME804TW11D190421L50						19/04		
				Multimedia Designer - Interface Designer - Writer -	CME804TW11D200421L51						20/04		
				Video Specialist - Audio Specialist -	CME804TW11D210421L52						21/04		
				Multimedia Programmer -	CME804TW11D220421L53						22/04		
				Producer of Multimedia for the Web.	CME804TW11D230421L54						23/04		
12	26 April to 30 April	7	VI	Designing and Producing: Designing - Designing the Structure - Designing the User Interface –	CME804TW12D260421L55	MMTCH06		1. steps after compeltion	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH Page no 260, 358,422		26/04		
				Producing – Tracking – Copyrights - Virtual reality designing and modeling (VRML).	CME804TW12D270421L56			2. marketing startegy			27/04		
				The Internet and Multimedia: The Bandwidth Bottleneck - Internet Services – MIME Types -	CME804TW12D280421L57			3. analysisi on advvertisment			28/04		
				Multimedia on the Web - Web Page	CME804TW12D290421L58			4. web content management			29/04		
				Makers and Site Builders - Plug-ins and Delivery Vehicles.	CME804TW12D300421L59			5. content writing and presentation			30/04		
13	03 May to 07 May	8		Designing for the World Wide Web: Developing for the Web - The Desktop Workspace and the	CME804TW13D300421L60			6. package and deleivery			01/05		
				Small-Device Workspace - Text for the Web - Images for the Web - GIF and PNG Images -	CME804TW13D300421L61						02/05		
				JPEG Images - Clickable Buttons - Client-Side Image Maps - Sound for the Web - Animation for	CME804TW13D300421L62						03/05		
				the Web - GIF89a - Video for the Web.	CME804TW13D300421L63						04/05		
				Delivering: Testing-Preparing for Delivery -File Archives	CME804TW13D300421L64						05/05		

SESSIONAL 02 10 MAY TO 15 MAY

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
9	30/03/21 03/04/21	6	4	Frames and Inheritance: Semantic nets, Frames and single inheritance: tree like frame taxonomies, File Merging :Sorting of large files on disks.	CE8ESDW01 D030421L39	ESD-F&I-PPT6		C++ code	"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "		03/04		
10	05/04/21 09/04/21	5	4	Exceptions inheritance and attribute facts, Frames and multiple inheritance, frames as a representation formalism.Tutorial.	CE8ESDW01 D090421L45	ESD-FR-PPT9		C++ code			09/04	(2) 09/04	
11	12/04/21 17/04/21	6	5	Reasoning with Uncertainty: Production rules,inference and uncertainty, probability theory: the probability function,conditional probabilities.	CE8ESDW01 D170421L50	ESD-UP-PPT10			"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "		17/04/21		
12	19/04/21 23/04/21	4	5	Bayes' theorem, application in rule based expert system, The subjective Baysian method, the certainty factor model, Dempster-Shafer theory, Network model. Tutorial.	CE8ESDW01 D230421L56	ESD-BT-PPT11					23/04/21		
13	26/04/21 01/05/21	6	6	History of artificial neural networks,Neural information processing, hybrid intelligence, basic concept of neural network.	CE8ESDW01 D010521L60	ESD-NN-PPT12			"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "		30/4/21	(3)	
14	03/05/21 07/05/21	6	6	biological neural system, single layer perceptrons, multilayer perceptrons, supervised and unsupervised learning, neural network learning.Tutorial.	CE8ESDW01 D070521L66	ESD-LM-PPT-13					7/5/21	3/5/21	
15				**10/05/21 to 15/05/21**					**Sessional - II**				

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	15 Freb-20 Feb	5	II	Record access, Record structures,	CME402TW01D10221L13	FSDP-02	FSDP-V1-02	Give them small activity for collection of data with different field and arrange the records	FS-chpt-4-pg-180,189		15/2/24		
				file access & file organization,	CME402TW01D10221L14				chpt-5-pg-196		16/2/24		
				Abstract data models for file access.	CME402TW01D10221L15				FS-chpt-5-pg-198		17/2/24 18/2/24		
				Metadata. Extensibility,	CME402TW01D10221L16				FS-chpt-5-pg-200,209		19/2/24 20/2/24		
				Portability & standardization.	CME402TW01D10221L17				FS-chpt-5-pg-210		22/2/24		
4	22Feb-26Feb	5		Data Compression	CME402TW01D10221L18				FS-chpt-6-pg-229		23/2/24		
				Reclaiming spaces in files	CME402TW01D10221L19				FS-chpt-6-pg-234		24/2/24		
				Introduction to internal sorting & Binary searching.	CME402TW01D10221L20				FS-chpt-6-pg-248		25/2/24 26/2/24		
				Introduction to internal sorting & Binary searching.	CME402TW01D10221L21	FSDP-03					29/2/24		
5	1Mar-6Mar	6	III	Keysorting.Indexing concepts.	CME402TW01D10221L22		FSDP-V1-03	give activity for image compression and give task to find out various techniques related to data compression and arrange them ,MCQ's	FS-chpt-6-pg-254		2/3/24		
				Keysorting.Indexing concepts.	CME402TW01D10221L23						3/3/24 4/3/24		
				Object I/O.	CME402TW01D10221L24				FS-chpt-7-pg-279		5/3/24		
				Multiple keys indexing	CME402TW01D10221L25				FS-chpt-7-pg-291		6/3/24		
	26 APR 30 APR				CME402TW01D10221L26						26/4/24		
6	~~8Mar-12Mar~~	4		Inverted lists	CME402TW01D10221L27				FS-chpt-7-pg-298		27/4/24		
				Selective indexes, Binding.	CME402TW01D10221L28				FS-chpt-7-pg-304		28/4/24		

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

COMPUTER ENGINEERING

Session:-2020-21

Faculty Name: Prof. Sharayu J Deote						Sem:-VI CE		Subject: DBMS		
Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb-6 Feb	6	1	UNIT I: Introduction to Database Systems Database Systems: Significance and advantages, Types of Databases, the DBMS Environment Limitations of File processing system,		1. Abraham Silberschatz, Henry F. Korth and S. Sudarshan, 5th Edition, McGraw Database System Concepts 5th Edition, McGraw		08/02		
2 3	8 Feb-12 Feb	6		DBMS Architecture, Functions of DBMS, Data Abstraction, Data Independence, Formal relational query languages: Relational Algebra, Tuple Relational calculus, Domain Relational Calculus.	1.Drawing competition 2.Make group of 6 to 5 students ,give copy of prepare comparative table for symbols used 3.Practice Query examples	Hill (SIE), 2013. pg no. 1 to 28 ,chno 1 ch no 5 ,pg no 163 to 198 from same book		13/02		

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4	15 Feb to 20-Feb	6	II	**UNIT II: Relational Database Manipulation** Introduction to SQL: SQL Data Definition, Basic Structure of SQL Queries Set Operations, Null values, Aggregate	4 .Activity to Design tables relavant to application and , Define structure of table by also mention primary	Desai Bipin, Introduction to Database System Galgotia Publications, 2003				
				Intermediate SQL: Join Expressions, Views, Integrity,Constraints, SQL Data types and Schemas, Authorization	5. practice query	Ex. From both books & net & university papers		22/2		
5	22 Feb to 26 Feb	6		Advanced SQL: Dynamic SQL and Embedded SQLPL/SQL Functions and Procedures.QUEL: data definition, data manipulation, embedded data manipulationQBE: Basic data retrieval,		Inter net		01/03		
6	1 Mar to 6 Mar	6		**UNIT III: Data Models and Relational Database Design** Evolution of data model ,Entity relationship model Development of ER Diagrams, Extended Entity Relationship modelRelational model: Logical View of Data, Keys,		pg no 201 to 302 from korth ,Ch no 6 & 7& bipin desai		08/03		
7	8 Mar to 12Mar	6		Integrity Rules, Relational set operators, Data Dictionary and System Catalog, Indexes, Rules Codd's Relational Database Codd's Relational Database				12/03		
Sessional -I 14 Mar to 19 Mar										

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13	to 30 Apl	3	VI	**consistency, concurrency control,**		pg no 833 to 870 from Korth				
				distributed commitment and recovery,						
				security and protection in DDBMS,						
				homogenous and heterogeneous systems						
Internal Practical 3 May to 7 May										
Sessional -II 10 May To 15 May										

Subject Teacher

HOD, CE Dept.

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/CE / 20-21

Date: 28/ 1 / 2021

LESSON & TEACHING PLAN for Software Testing and Quality Assurance

Department of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Sub: STQA | Sec | Year : 2020-21 | Sem:- VIII

WEEK No	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no edition No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	1 Feb - 6 Feb	6	I	Need of testing, Errors, Faults, Defects, failures, Unit Testing,Integration Testing,Central issue in Testing,Testing activities	CE8STQAW01D01221L01	STQA_ppt_01		One object assign to students and tells possible test cases for the same	Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		1|2|21		
					CE8STQAW01D02221L02						2|2|21		
					CE8STQAW01D03221L03						3|2|21		
					CE8STQAW01D04221L04						4|5|21		
					CE8STQAW01D05221L05						5|2|21		
					CE8STQAW01D06221L06						8|2|21		
2	8 Feb - 12 Feb	5		System testing, Objectives of Testing, V-model,Sources Of information for Test Cases, Monitoring & measuring test execution,Test Tools & Automation, Limitation Of Testing	CE8STQAW02D08221L07	STQA_ppt_02					9|2|21		
					CE8STQAW02D09221L08						10|2|21		
					CE8STQAW02D10221L09						11|2|21 12|2|21		
					CE8STQAW02D11221L10						15|2|21		
					CE8STQAW02D12221L11						17|2|21 18|2|21		
3	15 Feb - 20 Feb	6	II	Concept of unit testing, Static unit testing, Defect Preventions, Dynamic unit testing	CE8STQAW03D15221L12	STQA_ppt_03			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi		22|2|21		
					CE8STQAW03D16221L13						23|2|21		
					CE8STQAW03D17221L14						24|2|21		
					CE8STQAW03D18221L15						25|2|21 26|2|21	2|3|21	
					CE8STQAW03D19221L16						1|3|21		
					CE8STQAW03D20221L17						2|3|21		
					CE8STQAW04D22221L18						3|3|21 4|3|21		

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WEEK No	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no edition No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	22 Feb - 26 Feb	5		Mutation testing, Debugging, Unit Testing in extreme programming, tools for unit Testing	CE8STQAW04D23221L19				Priyadarshi Tripathi (Wiley)		5|3|21		
					CE8STQAW04D24221L20						6|3|21		
					CE8STQAW04D25221L21						8|3|21		
					CE8STQAW04D26221L22						9|3|21		
5	1 mar - 6 mar	6	III	Outline of control flow testing, control flow graph, Path in control flow graph, Path selection Criteria	CE8STQAW05D01321L23	STQA_ppt_04		Draw Control flow graph for one of the program	Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		15|3|21		
					CE8STQAW05D02321L24						19|3|21		
					CE8STQAW05D03321L25						20|3|21		
					CE8STQAW05D04321L26						22|3|21		
					CE8STQAW05D05321L27						23|3|21		
					CE8STQAW05D06321L28						26|3		
6	8 mar - 12 mar	4		.All path coverage criteriaStatement coverage, Path coverage,Predicate coverage criteria, Generating Test input,example of test data selection	CE8STQAW06D08321L29						27|3		
					CE8STQAW06D09321L30						29|3		
					CE8STQAW06D10321L31						30|3		
					CE8STQAW06D11321L32						10|5		
7	15 mar - 20 mar	6		**Sessional I**									
8	22 mar -26 mar	5	IV	Introduction to Data flow testing, Data flow graph, Data flow Testing criteria, Comparison of Data flow Test selection criteria.	CE8STQAW08D22321L33	STQA_ppt_05			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		11|5		
					CE8STQAW08D23321L34						12|5		
					CE8STQAW08D24321L35						13|5		
					CE8STQAW08D25321L36						17|5		
					CE8STQAW08D26321L37						19|5		
9	29 mar -3 apr	5		System Integration: Introduction,Different types of interfaces & interfaces errors, System integration techniques, Software & Hardware integration	CE8STQAW09D29321L38						20|5		
					CE8STQAW09D30321L39						21|5		
					CE8STQAW09D31321L40						24|5		
					CE8STQAW09D01421L41						25|5		
					CE8STQAW09D02421L42						27|5		
				Test Plan for System integration Off-the Shelf component	CE8STQAW10D05421L43						28|5		
					CE8STQAW10D06421L44						1|6		
									Software		2|6		

Faculty in Charge

HOD

WEEK No	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no edition No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
10	5 apr - 9 apr	5	V	Integration, Taxonomy of system Test, Basic Test, Functionality test,Robustness Test	CE8STQAW10D07421L45	STQA_ppt_06			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		3|6		
					CE8STQAW10D08421L46						4|6		
					CE8STQAW10D09421L47						5|6		
11	12 apr - 17 apr	4		Performance Test,Scalability Test, Stress Test, Load & Reliability Test, Regression test, Documentation test, Test Cases and Necessity of Test Case Documentation	CE8STQAW11D12421L48						9|6		
					CE8STQAW11D13421L49						10|6		
					CE8STQAW11D14421L50						11|6	24|5	
					CE8STQAW11D15421L51						14|6		
14	19 apr - 24 apr	4		Functional specification based Test Case Design, Use Cases based Test Case Design,	CE8STQAW12D19421L52	STQA_ppt_07			Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)		15|6		
					CE8STQAW12D20421L53						16|6		
					CE8STQAW12D21421L54						17|6		
					CE8STQAW12D22421L55						18|6		
15	26 apr - 1 may	5	VI	Application based Test cases Design, Levels of Test Execution, Acceptance criteria, Selection of acceptance criteria, Acceptance Test Plan	CE8STQAW13D26421L56						19|6		
					CE8STQAW13D76421L57						21|6		
					CE8STQAW13D28421L58								
					CE8STQAW13D29421L59						22|6	31|5|21	
					CE8STQAW13D30421L60						23|6		
16	3 may - 7 may	5		Acceptance test execution, Acceptance Test report,Fine views of software Quality, ISO 9126, ISO 9000:2000 software quality Standard	CE8STQAW14D030521L61						24|6		
					CE8STQAW14D040521L62						28|6		
					CE8STQAW14D050521L63								
					CE8STQAW14D060521L64						29|6		
					CE8STQAW14D070521L65						30|6		
17	10 may - 15 may	SESSIONAL II											

07/07

3

Faculty in Charge **HOD**

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Date: 29/ 1 /

CCOEW/CE / 20-21

LESSON & TEACHING PLAN for Distributed System & Grid Computing

Department of Computer Engineering

Faculty Name: Prof. S.Khamankar | Sub: DSGC | Sec: | Year : 2020-21 | Sem:- VIII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial	AC's sign
1	1Feb - 6Feb	6	I	Motivation and goals	CME802TW01D10221L01	DSGC-01	DSGC-V1-01	given task them to find out examples of DS	"Advance Concepts in Operating System"Singhal and Shivratri.		1•/2/21		
				Overview and advantages of DS	CME802TW01D20221L02						2/2/21		
				Characteristics-Absence of global clock	CME802TW01D30221L03			MCQS taken given task 2 students to make ppts on LAn, WAN ,RPC			3/2/21		
				State (Local and Global)	CME802TW01D40221L04						4/2/21		
				Possibility of large network dela	CME802TW01D50221L05						5/2/21		
				Possibility of large network dela	CME802TW01D60221L06			PPT / activity given to find out how RPC exactly work?			6/2/21		
2	8Feb-12Feb	5		Scalability, security	CME802TW02D70221L07						7/2/21		
				Scalability, security	CME802TW02D80221L08			PPT / video https://www.youtube.com/watch?v=Azyizl9w2xo			8/2/21		
				security	CME802TW02D90221L09						9/2/21		
				Resource management	CME802TW02D100221L10						10/2/21		
				Resource management	CME802TW02D110221L11						11/2/21		
				Time and Global States-Introdu	CME802TW03D12221L12						12/2/21		

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WEEK No.	Week	No. Of Lec	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	[illegible]		V	software measurement, metrics for software quality,	CE6SEPMW10D08421L46	SEPM_ppt_06			[illegible] Practitioners Approach", Tata MCGraw Hill Publication pg 629,644,650,661,677,696,698		7|6		
				[illegible]	CE6SEPMW10D09421L47						8|6		
				project planning objectives	CE6SEPMW11D12421L48						9|6		
11	12 apr - 17 apr	4		software scope and feasibility Decomposition Techniques Empirical Estimation Models Specialized Estimation tech	CE6SEPMW11D13421L49			Decission tree for problem statement			10|6	21/5	
					CE6SEPMW11D14421L50						11|6		
					CE6SEPMW11D15421L51						14|6		
											15|6		
14	19 apr - 24 apr	4		~~Reactive versus Proactive S/w~~ Risk Risk Identification, projection, refinement RMMM, Task set for software ~~project~~	CE6SEPMW12D19421L52						16|6		
					CE6SEPMW12D20421L53								
					CE6SEPMW12D21421L54						17|6		
					CE6SEPMW12D22421L55						21|6		
15	26 apr - 1 may	5	VI	scheduling, earned value analysis Software Quality Factors SQA Activities Software reviews Software reliability	CE6SEPMW13D26421L56	SEPM_ppt_07			Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 727,737,737-740,716,722,749,751,762,772,780		22|6		
					CE6SEPMW13D76421L57						23|6		
					CE6SEPMW13D28421L58								
					CE6SEPMW13D29421L59						25|6		
					CE6SEPMW13D30421L60						28|6		
16	3 may - 7 may	5		FTR, software configuration management the SCM Repository SCM process	CE6SEPMW14D030521L61						1|7		
					CE6SEPMW14D040521L62						2|7		
					CE6SEPMW14D050521L63						5|7		
					CE6SEPMW14D060521L64						6|7		
					CE6SEPMW14D070521L65						7|7		
											8|7		
17	10 may - 15 may	SESSIONAL II											

12/07

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CCOEW/CE/ 20-21

Date: 1/ 2 / 2021

LESSON & TEACHING PLAN for EXPERT SYSTEM DESIGN

Department of COMPUTER ENGINEERING

Faculty Name: Prof. SHAILESH SAHU								Sub: Unix and Shell Programming		Sec: -	Year : 2020-21		Sem:- VIII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment Tutorial Date	AC's sign
1	01/02/21 06/02/21	6	1	Expert system & AI, Expert System characteristics.	CE8ESDW01 D060221L01	ESD-ES-PPT1			"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "				
2	08/02/21 12/02/21	5	1	Expert System Structure,Heuristic Reasoning,User Interface. Tutorial.	CE8ESDW01 D120221L07	ESD-UI-PPT2		cryptarithmetic problems			12/2/21		
3	15/02/21 20/01/19	6	2	Logic and Resolution: propositional logic, first order predicate logic.	CE8ESDW01 D200221L12	ESD-PL-PPT3		STORY	"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "		18/2/21		
4	22/02/21 26/02/21	5	2	causal logic form of logic, resolution and propositional logic.Tutorial.	CE8ESDW01 D260221L18	ESD-RP-PPT4		STORY			26/02/21	26/2 (1)	
5	01/03/21 06/03/21	6	3	Production Rules and Inference: Knowledge representation in a production system.	CE8ESDW01 D060321L23	ESD-PS-PPT5			"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "		06/03/21		
6	08/03/21 12/03/21	5	3	Inference in a production system,Pattern recognition,production rules.	CE8ESDW01 D120321L29						12/3/21		
7				**15/03/21 to 20/03/21**					**Sessional - I**				
8	22/03/21 26/03/21	5	3	Production rules as a representation formalism, Tutorial.	CE8ESDW01 D260321L34	ESD-PS-PPT5					25/03/21		

Subject Teacher

AC

CCOEW/AS / 20-21

Date: 30/01 / 2021

LESSON & TEACHING PLAN for Multimedia Systems

Department of Computer Engineering

Faculty Name: Prof. P.A.Lohe | Sub: MMT | Sec: | Year : 2020-21 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	01 Feb- 06 Feb	5	I	Introduction : Definition of multimedia -	CME804TW01D010221L01	MMTCH01		1. story telling	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH Page no 01 to 10 Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI Page no 01 to 17		01/02		
				Multimedia Basics - Where to use Multimedia -	CME804TW01D020221L02			2. Audio Visuals			02/02		
				Multimedia Elements –: Multimedia	CME804TW01D030221L03			3. Walt disney and Fairy tales			03/02		
				Multimedia Applications Multimedia Systems Architecture	CME804TW01D040221L04			4. Tom and Jerry			04/02		
				Multimedia Applications Multimedia Systems Architecture	CME804TW01D050221L05			5. Application of Multimedia			05/02		
2	08 Feb - 12 Feb	5		Workstation Architecture	CME804TW02D080221L06			6. Apps of the Mobile phone			08/02		
				Workstation Architecture	CME804TW02D090221L07			7. study for HD, SD, UD			09/02		
				High resolution Graphic displays	CME804TW02D100221L08			8. augmented realllity			10/02		
				High resolution Graphic displays	CME804TW02D110221L09						11/02		
				Multimedia Architecture Based on interface bus	CME804TW02D120221L10						14/02		
3	15 Feb - 20 Feb	5		Multimedia Architecture Based on interface bus	CME804TW03D150221L11						15/02		
				Network architecture for Multimedia systems	CME804TW03D160221L12						16/02		
				Evolving Technologies For Multimedia Systems	CME804TW03D170221L13						17/02		
				Hyper Speech - HDTV and UDTV - 3D Technologies and Holography -	CME804TW03D180221L14						18/02		
				Virtual Reality -Video conferencing	CME804TW03D190221L15						19/02		
4	21Feb - 26 Feb	5	II	Input Devices - Output Hardware - Communication Devices	CME804TW04D210221L16	MMTCH02		1. movie before and after edting	Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI Page no 20 to 60		21/02		
				Basic Software Tools : Text Editing - Word Processing - OCR Software - Painting and Drawing	CME804TW04D220221L17			2. 3D movie picturization			22/02		
				Tools - 3D Modeling and Animation Tools -	CME804TW04D220221L18			3. crop and edit self image			23/02		
				Image Editing - Sound Editing –Animation – Video	CME804TW04D240221L19			4. Handlelling of image editing tool			24/02		
				Making instant Multimedia : Linking Multimedia Object – office suites- word processors –	CME804TW04D250221L20						25/02		
5	01 Mar-06 Mar	5		spread sheets – databases – presentation tools – power point Multimedia authoring tools:	CME804TW05D010321L21						01/03		
				Types of authoring tools –	CME804TW05D020321L22						02/03		
				card and page based authoring tools	CME804TW05D030321L23						03/03		
				Icon based authoring tools –	CME804TW05D040321L24						04/03		

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CCOEW/CE / 20-21

Date: 7/ 7 / 2020

LESSON & TEACHING PLAN for Concepts In Computer Engineering

Department of Computer Engineering

Faculty Name: Prof. S.Khamankar									Sub: CCE		Sec:	Year : 2020-21		Sem:- III
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Description of computer input units	CME303TW01D100820L01	CCE-01		collect info about more devices & MCQ	VR-Chpt3-pg-31-35		7/8/20		
				other input methods	CME303TW01D110820L02				VR-Chpt3-pg-36-40		8/8/20		
				other input methods	CME303TW01D120820L03				VR-Chpt3-pg-36-40		12/8/20		
				computer output units,types of printer	CME303TW01D130820L04				VR-Chpt3-pg-42		13/8/20		
				types of printer,plotter	CME303TW01D140820L05				VR-Chpt3-pg-42		14/8/20		
				types of printer,plotter	CME303TW02D170820L06				VR-Chpt3-pg-42		17/8/20		
2	17Aug-21 Aug20	5		Memory cell, memory organization,	CME303TW02D180820L07		CCE-V1-01	Given task to make small presentation on secondary storage device	VR-Chpt4-pg-46-51		18/8/20		
				Types of memory	CME303TW02D190820L08				VR-Chpt4-pg-46-51		19/8/20		
				read only memory,Serial access memory	CME303TW02D200820L09				VR-Chpt4-pg-55-61		20/8/20		
				physical devices used to construct memory	CME303TW02D210820L10				VR-Chpt4-pg-55-61		21/8/20		
				semiconductor flip-flop	CME303TW03D240820L11				VR-Chpt4-pg-55-61		24/8/20		
				magnetic surface recording	CME303TW03D250820L12				VR-Chpt4-pg-55-61		25/8/20		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	24 Aug-29 Aug20	5	II	Magnetic Hard Disk	CME303TW03D2608 20L13	CCE-02			VR-Chpt4-pg-63,67		26/8/20		
				floppy disk, CDROM	CME303TW03D2708 20L14				VR-Chpt4-pg-63,67		27/8/20		
				magnetic tape drives,DVD	CME303TW03D2808 20L15				VR-Chpt4-pg-63-69,71		28/8/20		
4	31Aug-5Sept20	5		First generation computers,second generation computers,	CME303TW04D3108 20L16			to collect information about it & will show videos related to it.	VR-Chpt12-pg-250,251		31/8/20		
				third generation computers,Moore's Law	CME303TW04D0109 20L17				VR-Chpt12-pg-252,256		1/9/20		
				fourth & fifth generation ,computers	CME303TW04D0209 20L18				VR-Chpt12-pg-253		2/9/20		
				classification of computers	CME303TW04D0309 20L19				VR-Chpt12-pg-258-260		3/9/20		
				classification of computers	CME303TW04D0409 20L20				VR-Chpt12-pg-258-260		4/9/20		
5	7Sept-12 Sept 20	5		parallel computers distributed computer system	CME303TW05D0709 20L21			Task given to write instruction	VR-Chpt12-pg-261		7/9/20		
				Structure of instructions	CME303TW05D0809 20L22				VR-Chpt5-pg-78		8/9/20		
				Description of processor	CME303TW05D0909 20L23	CCE-V1-02			VR-Chpt5-pg-82		9/9/20		
				a machine language program	CME303TW05D1009 20L24				VR-Chpt5-pg-86		10/9/20		
6	14Sept-19Spt 20	5	III	Algorithms, Flowchart	CME303TW05D1109 20L25			Task given to write small programs with algorithm and	VR-Chpt1-pg-2-8		11/9/20		
				Why programming languages,	CME303TW06D1409 20L26				VR-pg-170 EB-333		14/9/20		
				Generation of Programming languages,(1'st)	CME303TW06D1509 20L27	CCE-03			EB-Chpt13-pg-336		15/9/20		
				2'nd generation of language	CME303TW06D1609 20L28				EB-Chpt13-pg-337		16/9/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Complet ion Date	Assignmen t/Tutorial Date	AC's sign
				3'rd generation of language	CME303TW06D1709 20L29			flowchart	EB-Chpt13-pg-338		17/9/20		
				4'th & 5'th generation of language	CME303TW06D1809 20L30				EB-Chpt13-pg-339		18/9/20		
				21 Sept-25Sept 2020 Sessional -I									
7	28Sept-3Oct 20	5	III	Characteristics of good programming language	CME303TW07D2809 20L31	CCE-03			EB-Chpt13-pg-340		28/9/20		
				Factors affecting the choice of languages	CME303TW07D2909 20L32				EB-Chpt13-pg-347		29/9/20		
				developing a program	CME303TW07D3009 20L33		CCE-V1-03		EB-Chpt13-pg-349-352		30/9/20		
				Introduction HTML, Python	CME303TW07D0110 20L34				Internet		1/10/20		
8	5Oct-9Oct	5	IV	roduction, Types of Computer Softw	CME303TW07D0310 20L35	CCE-04		MCQs	EB-Chpt10-pg-214		3/10/20		
				System Management Programs	CME303TW08D0510 20L36				EB-Chpt10-pg-215		5/10/20		
				System Development Programs	CME303TW08D0610 20L37						6/10/20		
				Unique Application Programs	CME303TW08D0710 20L38				EB-Chpt10-pg-217,219		7/10/20		
				Problem Solving	CME303TW08D0810 20L39						8/10/20		
				Structuring the logic, using the Computer	CME303TW08D0910 20L40		CCE-V1-04		EB-Chpt10-pg-224		9/10/20		
					CME303TW09D1210 20L41				EB-Chpt10-pg-228		12/10/20		
9	12Oct-17Oct	6		Need of operating system	CME303TW09D1310 20L42				EB-Chpt10-pg-228		13/10/20		
				types of operating systems	CME303TW09D1410 20L43				EB-Chpt11-pg-254 & VR-Chpt10-pg-214		14/10/20		
					CME303TW09D1510 20L44						15/10/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Complet ion Date	Assignmen t/Tutorial Date	AC's sign
			V	history & Open source software development,	CME303TW09D1610 20L45	CCE-05	CCE-V1-05	Task to given find out more types of OS	open source technology by K.Vadhera pg-1,9,12,13,16,20,36, 107 and internet		14/11/20		
				Free software & Free software license provider,	CME303TW09D1710 20L46						17/11/20		
					CME303TW09D1710 20L47						17/11/20		
				Proprietary Vs. Open source Licensing model	CME303TW10D1910 20L48						19/11/20		
				FOSS, GNU project.	CME303TW10D2010 20L49						20/11/20		
10	19Oct-24Oct	5		Representation of Image & moving image with camera,	CME303TW10D2110 20L50	CCE-06		Task given to find more techniques for image processing	VR-Chpt16-pg-372		21/11/20		
					CME303TW10D2210 20L51						22/11/20		
					CME303TW10D2310 20L52						23/11/20		
			IV	Compression of video data, MPEG	CME303TW11D2610 20L53				VR-Chpt16-pg-374-376		26/11/20		
				Acquiring and storing audio signals,	CME303TW11D2710 20L54				VR-Chpt16-pg-377		27/11/20		
				Compression of audio signals,	CME303TW11D2810 20L55		CCE-V1-06		VR-Chpt16-pg-378		28/11/20		
11	26Oct-31Oct	6		Audio signalprocessing & speech processing processing, speech processing	CME303TW11D2910 20L56				VR-Chpt16-pg-378-380		29/11/20		
					CME303TW11D3010 20L57						30/11/20		
				Revision	CME303TW11D3110 20L58						31/11/20		
16				Sessional II									

Sub. Teacher

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CCOEW/AS / 20-21

Date: 7/ 7 / 2020

LESSON & TEACHING PLAN for Programing Methedology and Data Structure

Department of Computer Engineering

Faculty Name: Prof. P.A.Lohe | Sub: PMDS | Sec: | Year : 2020-21 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Taxonomy and history of Computer	CME304TW01D100820L01	PMDS-01		Grp Discussion/Google Serach/ You tube Videos/Assignments	Chpt3-pg-31-35		10/08		
				Programming Program Execution basics.	CME304TW01D110820L02				Chpt3-pg-36-40		11/08		
				Problem solving and Programming strategies,	CME304TW01D120820L03				Chpt3-pg-36-40		12/08		
				Problem solving and Programming strategies,	CME304TW01D130820L04				Chpt3-pg-42		13/08		
				programming paradigms.	CME304TW01D140820L05				Chpt3-pg-42		14/08		
2	17Aug-21 Aug20	5		programming paradigms.	CME304TW02D170820L06				Chpt3-pg-42		17/08		
				Algorithm and flowchart design,	CME304TW02D180820L07			Given task to make small presentation	Chpt4-pg-46-51		18/08		
				Principles of Structured programming C Language Fundamentals	CME304TW02D190820L08				Chpt4-pg-46-51		19/08		
				Loop control statements,	CME304TW02D200820L09				Chpt4-pg-55-61		20/08		
				Arrays One dimensional	CME304TW02D210820L10				Chpt4-pg-55-61		21/08		
				Arrays One dimensional	CME304TW03D240820L11				Chpt4-pg-55-61		24/08		
3	24 Aug-29 Aug20	5		Two-dimensional array	CME304TW03D250820L12				Chpt4-pg-55-61		25/08		
				Functions – Definition,	CME304TW03D260820L13				Chpt4-pg-63,67		26/08		
				call, prototypes,	CME304TW03D270820L14				Chpt4-pg-63,67		27/08		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence (- Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				block structure, external variables, Recursion	CME304TW03D280820L15	PMDS-02			Chpt4-pg-63-69,71		28/08		
4	31Aug-5Sept20	5	II	Storage Classes – extern declaration and information hiding.	CME304TW04D310820L16			to collect information about it & will show videos related to it.	Chpt12-pg-250,251		31/08		
				Pointers	CME304TW04D010920L17				Chpt12-pg-252,256		01/09		
				Address and indirection operators	CME304TW04D020920L18				Chpt12-pg-253		02/09		
				Pointer arithmetic	CME304TW04D030920L19				Chpt12-pg-258-260		03/09		
				Functions and pointers	CME304TW04D040920L20				Chpt12-pg-258-260		04/09		
5	7Sept-12 Sept 20	5		Arrays and pointers	CME304TW05D070920L21			Task given to write instruction	Chpt12-pg-261		07/09		
				Strings and pointers	CME304TW05D080920L22				Chpt5-pg-78		08/09		
				Multi-dimensional arrays and pointers	CME304TW05D090920L23				Chpt5-pg-82		09/09		
				Pointer arrays	CME304TW05D100920L24				Chpt5-pg-86		10/09		
				Pointers to functions	CME304TW05D110920L25				Chpt1-pg-2-8		11/09		
6	14Sept-19Spt 20	5	III	Dynamic memory management. Structures – Variables, – –	CME304TW06D140920L26	PMDS-03		Task given to write small programs with algorithm and flowchart	pg-170 EB-333		14/09		
				Accessing members, Assignment and nesting	CME304TW06D150920L27				Chpt13-pg-336		15/09		
				Pointers to Structures – Structures and functions – Structures and arrays	CME304TW06D160920L28				Chpt13-pg-337		16/09		
				Structures containing pointers – Unions	CME304TW06D170920L29				Chpt13-pg-338		17/09		
				Introduction to data structures,	CME304TW06D180920L30				Chpt13-pg-339		18/09		

21 Sept-25Sept 2020 Sessional -I

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	28Sept-3Oct 20	5	III	Searching and sorting techniques- Linear search, Binary search, Indexed search,	CME304TW07D280920L31	PMDS-03			Chpt13-pg-340		28/09		
				Insertion sort, selection sort,	CME304TW07D290920L32				Chpt13-pg-347		29/09		
				Bubble Sort, radix Sort, Merge Sort, Hashing,	CME304TW07D300920L33				Chpt13-pg-349-352		30/09		
				Collision resolution policies.	CME304TW07D011020L34				Internet		01/10		
8	5Oct-9Oct	5	IV	Stack and queue	CME304TW07D031020L35	PMDS-04		Live Example/Google Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Chpt10-pg-214		03/10		
				Array representation of stacks,	CME304TW08D051020L36				Chpt10-pg-215		05/10		
				Queues and Dequeue, Circular queue,	CME304TW08D061020L37						06/10		
				Polish notation, Implementation of stack using arrays,	CME304TW08D071020L38				Chpt10-pg-217,219		07/10		
				Application of stack & queue: Conversion from Infix to Postfix ,	CME304TW08D081020L39						08/10		
				Evaluation of postfix expressions, Priority QueuesLinked list- Singly	CME304TW08D091020L40				Chpt10-pg-224		09/10		
				linked list: Operations on linked list, Searching, Insertion, Deletion	CME304TW09D121020L41				Chpt10-pg-228		12/10		
9	12Oct-17Oct	6	V	Linked list- Singly linked list: ,	CME304TW09D131020L42	PMDS-05			Chpt10-pg-228		13/10		
				Operations on linked list, Searching,	CME304TW09D141020L43			Live Example/Google Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Chpt11-pg-254 & Chpt10-pg-214		14/10		
				Insertion, Deletion	CME304TW09D151020L44						15/10		
				Doubly linked list	CME304TW09D161020L45						16/10		
				Operations on doubly linked list	CME304TW09D171020L46						17/10		
				Sorted Linked List	CME304TW09D171020L47						19/10		
				circular list,	CME304TW10D191020L48						20/10		
				sparse matrix storage using linked list	CME304TW10D201020L49						21/10		
10	19Oct-24Oct	5		Trees- Definition, Binary Trees, Binary tree Traversal, Pre-order , In order , Post Order ,Expression trees ,	CME304TW10D211020L50				Chpt16-pg-372		22/10		
				Balanced Binary Trees . Different tree traversal algorithms,	CME304TW10D221020L51						23/10		
				Graphs - Mathematical Properties,	CME304TW10D231020L52								

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book Chapter no. page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	26Oct-31Oct	6	VI	Degree, Connectedness, Directed Graphs, Directed Acyclic Graph,	CME304TW11D261020L53	PMDS-06			Chpt16-pg-374-376		26/10		
				Representation of Graphs	CME304TW11D271020L54				Chpt16-pg-377		27/10		
				Applications: Adjacency matrix, path matrix,	CME304TW11D281020L55				Chpt16-pg-378		28/10		
				Applications: Adjacency matrix, path matrix,	CME304TW11D291020L56				Chpt16-pg-378-380		29/10		
				Linked Representation of a graph,	CME304TW11D301020L57						30/10		
				Graph traversal - DFS & BFS, Shortest path,	CME304TW11D311020L58						31/10		
16				Sessional II									

Sub. Teacher

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Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ .Virtual lab link Teaching Aid	Refrence Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
7	28Sept-3Oct 20	5	III	Searching and sorting techniques- Linear search, Binary search, Indexed search,	CME304TW07D280920L31	PMDS-03			Chpt13-pg-340		28/09		
				Insertion sort, selection sort,	CME304TW07D290920L32				Chpt13-pg-347		29/09		
				Bubble Sort, radix Sort, Merge Sort, Hashing,	CME304TW07D300920L33				Chpt13-pg-349-352		30/09		
				Collision resolution policies.	CME304TW07D011020L34				Internet		01/10		
8	5Oct-9Oct	5	IV	Stack and queue	CME304TW07D031020L35	PMDS-04		Live Example/Google Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Chpt10-pg-214		03/10		
				Array representation of stacks,	CME304TW08D051020L36				Chpt10-pg-215		05/10		
				Queues and Dequeue, Circular queue,	CME304TW08D061020L37						06/10		
				Polish notation, Implementation of stack using arrays,	CME304TW08D071020L38				Chpt10-pg-217,219		07/10		
				Application of stack & queue: Conversion from Infix to Postfix ,	CME304TW08D081020L39						08/10		
				Evaluation of postfix expressions, Priority QueuesLinked list- Singly	CME304TW08D091020L40				Chpt10-pg-224		09/10		
				linked list: Operations on linked list, Searching, Insertion, Deletion	CME304TW09D121020L41				Chpt10-pg-228		12/10		
9	12Oct-17Oct	6	V	Linked list- Singly linked list: ,	CME304TW09D131020L42	PMDS-05			Chpt10-pg-228		13/10		
				Operations on linked list, Searching,	CME304TW09D141020L43			Live Example/Google Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Chpt11-pg-254 & Chpt10-pg-214		14/10		
				Insertion, Deletion	CME304TW09D151020L44						15/10		
				Doubly linked list	CME304TW09D161020L45						16/10		
				Operations on doubly linked list	CME304TW09D171020L46						17/10		
				Sorted Linked List	CME304TW09D171020L47						17/10		
				circular list,	CME304TW10D191020L48						19/10		
				sparse matrix storage using linked list	CME304TW10D201020L49						20/10		
10	19Oct-24Oct	5		Trees- Definition, Binary Trees, Binary tree Traversal, Pre-order , In order , Post Order ,Expression trees ,	CME304TW10D211020L50				Chpt16-pg-372		21/10		
				Balanced Binary Trees . Different tree traversal algorithms,	CME304TW10D221020L51						22/10		
				Graphs - Mathematical Properties,	CME304TW10D231020L52						23/10		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence (- Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				block structure, external variables, Recursion	CME304TW03D280820L15	PMDS-02			Chpt4-pg-63-69,71		28/08		
4	31Aug-5Sept20	5	II	Storage Classes – extern declaration and information hiding.	CME304TW04D310820L16			to collect information about it & will show videos related to it.	Chpt12-pg-250,251		31/08		
				Pointers	CME304TW04D010920L17				Chpt12-pg-252,256		01/09		
				Address and indirection operators	CME304TW04D020920L18				Chpt12-pg-253		02/09		
				Pointer arithmetic	CME304TW04D030920L19				Chpt12-pg-258-260		03/09		
				Functions and pointers	CME304TW04D040920L20				Chpt12-pg-258-260		04/09		
5	7Sept-12 Sept 20	5		Arrays and pointers	CME304TW05D070920L21			Task given to write instruction	Chpt12-pg-261		07/09		
				Strings and pointers	CME304TW05D080920L22				Chpt5-pg-78		08/09		
				Multi-dimensional arrays and pointers	CME304TW05D090920L23				Chpt5-pg-82		09/09		
				Pointer arrays	CME304TW05D100920L24				Chpt5-pg-86		10/09		
				Pointers to functions	CME304TW05D110920L25				Chpt1-pg-2-8		11/09		
6	14Sept-19Spt 20	5	III	Dynamic memory management. Structures – Variables, – –	CME304TW06D140920L26				pg-170 EB-333		14/09		
				Accessing members, Assignment and nesting	CME304TW06D150920L27	PMDS-03		Task given to write small programs with algorithm and flowchart	Chpt13-pg-336		15/09		
				Pointers to Structures – Structures and functions – Structures and arrays	CME304TW06D160920L28				Chpt13-pg-337		16/09		
				Structures containing pointers – Unions	CME304TW06D170920L29				Chpt13-pg-338		17/09		
				Introduction to data structures,	CME304TW06D180920L30				Chpt13-pg-339		18/09		

CCOEW/AS / 20-21

Date: 7/ 7 / 2020

LESSON & TEACHING PLAN for Programing Methedology and Data Structure

Department of Computer Engineering

Faculty Name: Prof. P.A.Lohe								Sub: PMDS		Sec:	Year : 2020-21		Sem:- III
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Taxonomy and history of Computer	CME304TW01D100820L01	PMDS-01			Chpt3-pg-31-35		10/08		
				Programming Program Execution basics.	CME304TW01D110820L02			Grp Discussion/Google Serach/ You tube Videos/Assignments	Chpt3-pg-36-40		11/08		
				Problem solving and Programming strategies,	CME304TW01D120820L03				Chpt3-pg-36-40		12/08		
				Problem solving and Programming strategies,	CME304TW01D130820L04				Chpt3-pg-42		13/08		
				programming paradigms.	CME304TW01D140820L05				Chpt3-pg-42		14/08		
2	17Aug-21 Aug20	5		programming paradigms.	CME304TW02D170820L06				Chpt3-pg-42		17/08		
				Algorithm and flowchart design,	CME304TW02D180820L07			Given task to make small presentation	Chpt4-pg-46-51		18/08		
				Principles of Structured programming C Language Fundamentals	CME304TW02D190820L08				Chpt4-pg-46-51		19/08		
				Loop control statements,	CME304TW02D200820L09				Chpt4-pg-55-61		20/08		
				Arrays One dimensional	CME304TW02D210820L10				Chpt4-pg-55-61		21/08		
3	24 Aug-29 Aug20	5		Arrays One dimensional	CME304TW03D240820L11				Chpt4-pg-55-61		24/08		
				Two-dimensional array	CME304TW03D250820L12				Chpt4-pg-55-61		25/08		
				Functions – Definition,	CME304TW03D260820L13				Chpt4-pg-63,67		26/08		
				call, prototypes,	CME304TW03D270820L14				Chpt4-pg-63,67		27/08		

Faculty in Charge

HOD

Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/CE / 20-21

Date: 30/ 7 / 2020

LESSON & TEACHING PLAN for Introduction to Computer Network

Department of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Sub: ICN | Sec | Year : 2020-21 | Sem:- III

WEEK	Week	No. Of	Unit	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/	Refrence Book - Chapter no. Page	link for quiz or	Completion Date	Assignment/ Tutorial	AC's sign
1	10Aug - 14Aug	5	I	Training and Introduction about Subject.Data and Signal,Bandwidth,Data Communication – Components, Data Representation, Data Flow,Networks –Network Criteria, Physical Structure (Types of Connection, Physical Topology),Categories of Network (LAN	CE3ICNW01D10820L01	ICN_ppt_01			Data Communications and Networking by Behrouz A Forouzan Pg. no.3 ,29-50,89 Computer Network By Andrew S. Tanenbaum Pg No. 3-237		10/8/20		
					CE3ICNW01D11820L02						11/8/20		
					CE3ICNW01D12820L03						12/8/20		
					CE3ICNW01D13820L04								
					CE3ICNW01D14820L05						13/8/20		
2	17Aug-22 Aug20	6		Internet, Protocols and Standards,Network Model – Layered Tasks,The OSI Reference Model, Introduction to TCP/IP Protocol Suite,Addressing – Physical, Logical,Specific Port Addressing ,Specific Addressing	CE3ICNW01D17820L06	ICN_ppt_02					14/8/20		
					CE3ICNW01D18820L07						17/8/20		02/09
					CE3ICNW01D19820L08						18/8/20		
					CE3ICNW01D20820L09						19/8/20		
					CE3ICNW01D21820L10						20/8/20		
					CE3ICNW01D22820L11						21/8/20 24/8/20		
3	24 Aug-29	6		Physical Layer: Physical Layer Objectives,Transmission Media –	CE3ICNW01D24820L12						25/8/20		
					CE3ICNW01D25820L13						26/8/20	31/8	
					CE3ICNW01D26820L14						27/8/20		

Faculty in Charge

HOD

WEEK	Week	No. Of	Unit	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/	Refrence Book - Chapter no. Page	link for quiz or	Completion Date	Assignment/ Tutorial	AC's sign
	Aug20		II	Wired and Wireless,Switching – Circuit switching Network	CE3ICNW01D27820L15				Data Communications and Networking by Behrouz A Forouzan Pg. no.101-129,141-155		28|8|20		
					CE3ICNW01D28820L16						29|8|20		
					CE3ICNW01D29820L17						31|8|20	31|8|20	
4	31Aug-5sept20	6		Datagram Network,Virtual Circuit Network,Tutorial,Digital Transmission,Digital to Digital Conversion,Analog to Digital Conversion,Analog Transmission	CE3ICNW01D31820L18						1|9|20		
					CE3ICNW01D01920L19						2|9|20		
					CE3ICNW01D02920L20						3|9|20		
					CE3ICNW01D03920L21						4|9|20		
					CE3ICNW01D04920L22						5|9|20		
					CE3ICNW01D05920L23								
5	7sept-12Sept 20	6	III	Digital to Analog Conversion ,Analog To Analog ConversionData Link Layer "Design Issues of Data Link Layer,Framing," Logical Link Control Protocols for Noiseless Channel Protocols for Noisy Channel Stop-and-Wait ARQ	CE3ICNW01D07920L24				Data Communications and Networking by Behrouz A Forouzan Pg. no 307,312,318,324,332,370,373,377,395		7|9|20		
					CE3ICNW01D08920L25						8|9|20		
					CE3ICNW01D09920L26						9|9|20		
					CE3ICNW01D10920L27						10|9|20		
					CE3ICNW01D11920L28						11|9|20		
					CE3ICNW01D12920L29						12|9|20		
6	14Sept-19Spt 20	4		Go-Back-N ARQ Selective Repeat ARQ,Multiple Access Control,Random Access Protocols (ALOHA, CSMA, CSMA/CD, CSMA/CA) IEEE Standard 802 for LAN – 802.3,802.4, 802.5	CE3ICNW01D14920L30						14|9|20		
					CE3ICNW01D17920L31						18|9|20		
					CE3ICNW01D18920L32						29|9|20		
					CE3ICNW01D19920L33						28|9|20 30|9|20	30|9|20	

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WEEK	Week	No. Of	Unit	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/	Refrence Book - Chapter no. Page	link for quiz or	Completion Date	Assignment/ Tutorial	AC's sign
7	21sept-26sept	5		Sessional I									
8	28sept-3oct20	5	IV	Network Layer Need for Network Layer, Internet as a Datagram Network" Logical Addressing Classfull Addressing in IPv4	CE3ICNW01D28920L34				Data Communications and Networking by Behrouz A Forouzan Pg. No. 549		3/10/20		
					CE3ICNW01D29920L35						5/10/20		
					CE3ICNW01D30920L36						8/10/20		
					CE3ICNW01D011020L37						9/10/20		
					CE3ICNW01D031020L38								21/10
9	5oct-10oct20	6	IV	Routing – Routing Algorithm Distance Vector Routing, Link State Routing Congestion and Congestion Control Open Loop, Closed Loop	CE3ICNW01D051020L39						10/10/20		
					CE3ICNW01D061020L40						13/10/20		
					CE3ICNW01D071020L41						15/10/20		
					CE3ICNW01D081020L42						16/10/20		
					CE3ICNW01D091020L43						17/10/20		
					CE3ICNW01D101020L44						19/10/20		
10	12oct-17Oct 20	6	V	Transport Layer Objectives of Transport Layer Process to Process Delivery Addressing IANA Ranges, Socket Addresses,Multiplexing and De – multiplexing.Reliable and Unreliable Services	CE3ICNW01D121020L45						20/10/20		
					CE3ICNW01D131020L46						21/10/20		
					CE3ICNW01D141020L47				Data Communications and Networking by Behrouz A Forouzan Pg. No. 549 TCP/IP Protocol Suite by Behrouz A Forouzan			23/10	
					CE3ICNW01D151020L48						22/10/20		
					CE3ICNW01D161020L49						23/10/20		
					CE3ICNW01D171020L50								

Faculty in Charge

HOD

WEEK	Week	No. Of	Unit	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/	Refrence Book - Chapter no. Page	link for quiz or	Completion Date	Assignment/ Tutorial	AC's sign
11	19Oct-24oct20	6	VI	Quality of Service Traffic Shaping policies, Session Layer – Introduction Presentation Layer – Data Compression Network Security and Privacy	CE3ICNW01D191020L51				A Forouzan		26/10/20	23/10	
					CE3ICNW01D201020L52								
					CE3ICNW01D211020L53				Data Communications and Networking by Behrouz A Forouzan Pg. No. 799		27/10/20		
					CE3ICNW01D221020L54						28/10/20		
					CE3ICNW01D231020L55								
					CE3ICNW01D241020L56						29/10/20		
14	26Oct-31oct20	5		Introduction to Cryptography(Symmetric and Asymmetric),Digital Signature Authentication (Message and Entity) Application Layer – Domain Name System, Electronic Mail, Architecture of Browser	CE3ICNW01D261020L57								
					CE3ICNW01D271020L58						4/11/20		
					CE3ICNW01D281020L59								
					CE3ICNW01D291020L60						6/11/20		
					CE3ICNW01D311020L61								
15	5Nov-10Nov 20			Sessional II									

Sub Teacher

Faculty in Charge

HOD

CCOEW/CE / 20-21

Date: 04/08 / 2020

LESSON & TEACHING PLAN for Applied Maths-III

Department of Computer Engineering

Faculty Name: Prof. Pravin Gorantiwar | Sub: Applied Maths III | Computer Engineering | Year : 2020-21 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	10Aug - 15Aug 20	5	IV	MATRICES: Linear and Orthogonal Transformations	CE-AM III-U4-Matrices	PDF-Matrices-01		Engineering Mathematics by Tembhekar & Shobhane 2.37 to 2.66		14/08/20		
				Linear dependence of vectors,								
				Characteristics equation, Eigen values and Eigen vectors		PDF-Matrices-02						
				Reduction to Diagonal form								
				Statement and Verification of Cayley-Hamilton Theorem		PDF-Matrices-03						
2	17Aug - 22Aug 20	5	IV	Sylvester's Theorem	CE-AM III-U4-Matrices	PDF-Matrices-04		Engineering Mathematics by Tembhekar & Shobhane 2.66 to 2.82		21/08/20		
				Solution of Second Order Linear Differential Equation with Constant Coefficients by Matrix method		PDF-Matrices-05						
				Reduction of Quadratic form to Canonical form by Orthogonal Transformation		PPT					21/08/20	
3	24 Aug-29 Aug 20	5	IV	Largest Eigen value and Eigen vector by Iteration method.	CE-AM III-U4-Matrices	PDF-Matrices-06				29/08/20		
			II	FOURIER TRANSFORM:Definition and Properties(excluding FFT)	CE-AM III-U2-Fourier Transform	PDF-FT-01		Engineering Mathematics by Tembhekar & Shobhane 5.1 to 5.15				
				Fourier Integral Theorem		PDF-FT-02						
				Applications of Fourier Transform to Solve Integral Equations.							29/08/20	

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
4	31Aug-5 Sept 20	6	III	Z-TRANSFORM: Definition, Convergence and Properties	CE-AM III-U3-Z Transform	PDF-ZT-02		Engineering Mathematics by Tembhekar & Shobhane 6.1 to 6.27		4/9/2020		
				Inverse Z-transform by Partial Fraction Method		PDF-ZT-02						
5	7 Sept-12 Sept 20	3	III	Convolution of two sequences						10/9/2020		
				Power Series Expansion, Residue Method								
				Solution of Difference Equations with Constant Coefficients by Ztransform method		PDF-ZT-03					10/9/2020	
		3	V	THEORY OF PROBABILITY: Axioms of Probability	CE-AM III-U5-TOP	PDF-TOP-01		Engineering Mathematics by Tembhekar & Shobhane 11.1 to 11.7		14/9/20		
				Conditional probability								
				Baye's Rule,								
6	14 Sept-19 Sept 20	2	V	Random variables: Discrete and Continuous random variables		PDF-TOP-02		Engineering Mathematics by Tembhekar & Shobhane 11.8 to 11.23		19/09/20		
				Probability function and Distribution function		PDF-TOP-03						
7	21 Sept-27 Sept 20	SESSIONAL-II										
9	28 Sept-03 Oct 20	5	V	Joint distributions	CE-AM III-U5-TOP	PDF-TOP-04 PDF-TOP-05		Engineering Mathematics by Tembhekar & Shobhane 11.24 to 11.38		3/10/2020		
				Independent Random Variables, Conditional Distributions.		PDF-TOP-06						
				MATHEMATICAL EXPECTATION & STOCHASTIC PROCESS		PDF-ME-01		Engineering				
				Variance, Standard Deviation								
				Moments								

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	PPt ID	Video ID/ PDF	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
10	05 Oct-10 Oct 20	6	VI	Moment generating function	CE-AM III-U6-ME	PDF-ME-02		Mathematics by Tembhekar & Shobhane 12.1 to 12.24		10/10/2020		
				Covariance & Correlation Coefficient, Conditional expectation.		PDF-ME-03						
				Stochastic process: Bernoulli and Poisson process.								
11	12 Oct-17 Oct 20	6	I	LAPLACE TRANSFORM:Definition	CE-AM III-U6-ME			Engineering Mathematics by Tembhekar & Shobhane 4.1 to 4.61		17/10/20		
				Properties, Laplace Transform of Derivatives and Integrals								
				Evaluation of Integrals by Laplace Transform								
				Inverse Laplace Transform and its Properties								
12	19 Oct-24 Oct 20	6	I	Convolution Theorem						23/10/20		
				Laplace Transform of Periodic Functions								
				Unit Step Function								
13	26 Oct-31 Oct 20	6	I	Applications of Laplace Transform to solve Ordinary Differential Equations						30/10/20		
				Simultaneous Differential Equations								
				Integral Equations & Integro-Differential Equations.								
Sessional II												

Sub. Teacher

Faculty in Charge

HOD

Ac

Maharshi Karve Stree Shikshan Samstha's
Educating Women for
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Lab Practicals Plan

CCOEW/ Department of Computer Engineering

S.Khamankar					C-Lab-I			Section:	
					Batch-B1.B2,B3				
Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark	
print	print				print	fill	fill	fill	
1	To demonstrate HTML with different tags	CME307PD120820P01	For each practical I created extra practical list which I mailed to students for variations	http://vlabs.iitb.ac.in/vlabs-dev/labs/html-basics-iitd/index.html	12-08-20	12/8/20	10		
2	To demonstrate HTML with setting color	CME307PD190820P02			19-08-20	19/8/20	10		
3	To demonstrate HTML by Ordered List	CME307PD260820P03			26-08-20	26/8/20	20		
4	To demonstrate HTML by Tables	CME307PD020920P04			02-09-20	2/9/20	10		
5	To demonstrate HTML by image as background	CME307PD090920P05			09-09-20	9/9/20	10		
6	To demonstrate HTML by hyperlinks	CME307PD160920P06			16-09-20	16/9/20	10		
7	Write a program to demonstrate "Website Login Form" in HTML	CME307PD230920P07			23-09-20	23/9/20	10		
8	Create a Web page having Main Frame along with three Sub Frames(Windows)	CME307PD300920P08			30-09-20	30/9/20	10		

9	*Develop a web page to play video file using <Embed> Tag.*	**CME307PD071020P09**		**07-10-20**	7/10/20	10	
10	To DemonstrateHTML document by using CSS	**CME307PD141020P10**		**14-10-20**	14/10/20	10	

Subject-Teacher

Ac

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Lab Practicals Plan

CCOEW/ Department of Computer Engineering 2020-21 ODD

Prof. Suruchi Kitey — Computer Graphics — BatchB 1

Pi	Name of experiment	Lab ID	Possible variations used	Link for virtual lab	Planned Date	Perform Date	No. of Viva done	Ac's Remark
1	To study the various Computer Graphics functions.	CE5CGD110820P01			11/8/2020	11/8/20		
2	Write a program to generate a line using DDA Algorithm.	CE5CGD180820P02			18/8/20	18/8/20		
3	Write a program to generate a line using generalized Bresenham's algorithm.	CE5CGD250820P03			25/8/20	25/8/20		
4	Write a program to generate a circle in clockwise direction with center at origin and radius R.	CE5CGD010920P04			1/9/2020	1/9/20		
5	To study 2-D Graphics Primitives and Write a program to draw a HUT using Graphics Primitives.	CE5CGD080920P05			8/9/2020	8/9/20		
6	Write a program to fill the polygon using simple seed fill algorithm	CE5CGD290920P06			29/09/2020	29/9/20		
7	Write a menu driven program for 2-D transformations(translation,scaling).	CE5CGD061020P07			6/10/2020	6/10/20		
8	Write a program to implement a 2-D Rotation.	CE5CGD131020P08			13/10/20	13/10/20		
9	Write a program to implement mid-point subdivision line clipping algorithm.	CE5CGD201020P09			20/10/20	27/10/20		

Sub Teacher

AC

Date: 30/ 7 / 2020

LESSON & TEACHING PLAN for Computer Graphics

Department of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Sub: Computer Graphics | Sec | Year : 2020-21 | Sem:- V

WEEK	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual	Refrence Book - Chapter no. Page	link for	Completion Date	Assignment /Tutorial	AC's sign
1	10Aug 14Aug	5	I	Geometry and line generation: points, lines, planes, pixels,frames buffers, types of display devices,aliasing , anti-aliasing and its techniques,DDA	CE5CGW01D10820L01	CG_ppt_01			Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill. Pg.No. 6,7,8,66,70,74,75, 79,88,142-151		10/8/20		
					CE5CGW01D11820L02						11/8/20		
					CE5CGW01D12820L03						12/8/20		
					CE5CGW01D13820L04	0					13/8/20		
					CE5CGW01D14820L05						14/8/20		
2	17Aug-22 Aug20	6		Bresenham's algorithms for line generation,Bresenham's algorithm for circle	CE5CGW01D17820L06	CG_ppt_03					17/8/20		
					CE5CGW01D18820L07						18/8/20		
					CE5CGW01D19820L08						19/8/20		
					CE5CGW01D20820L09	CG_ppt_04					20/8		
					CE5CGW01D21820L10						21/8		
					CE5CGW01D22820L11						24/8		
3	24 Aug-29 Aug20	6	II	Graphics primitives: Display files, algorithms for polygon generation	CE5CGW01D24820L12				Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill.Pg. No. 3,137-142,115,118,121,,		25/8		
					CE5CGW01D25820L13								
					CE5CGW01D26820L14						26/8		
					CE5CGW01D27820L15						27/8		
					CE5CGW01D28820L16						28/8		
					CE5CGW01D29820L17						29/8		
					CE5CGW01D31820L18						31/8	30/8	
					CE5CGW01D01920L19								

Faculty in Charge

HOD

WEEK	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual	Refrence Book - Chapter no. Page	link for	Completion Date	Assignment /Tutorial	AC's sign
4	31Aug-5sept20	6		polygon filling algorithms. Simple ordered Edge list, Edge fill, Fence fill, Edge flag,Seed fill, Scan line Seed fill, NDC	CE5CGW01D02920L20				126,131,133,		1/9/20		
					CE5CGW01D03920L21						2/9/20		
					CE5CGW01D04920L22						3/9/20		
					CE5CGW01D05920L23						4/9		
5	7sept-12Sept 20	6	III	operations on segments,data structures for segments and display files,window,viewport,viewing transformations,	CE5CGW01D07920L24				Procedural elements for computer graphics by David F. Rogers Pg.No. 63,175,177,181,187,192,196,253		5/9		
					CE5CGW01D08920L25						7/9		
					CE5CGW01D09920L26						8/9		
					CE5CGW01D10920L27								
					CE5CGW01D11920L28						9/9		
					CE5CGW01D12920L29						10/9		
6	14Sept-19Spt 20	4		Cohen-Sutherland,Cyrus-Beck Algorithm,Mid-point subdivision,Polygon clipping(Sutherland- Hodgeman)	CE5CGW01D14920L30						11/9		
					CE5CGW01D17920L31						12/9		
					CE5CGW01D18920L32						14/9		
					CE5CGW01D19920L33						18/9		
7	21sept-26sept	5		**Sessional I**									
8	28sept-3oct20	5	IV	scaling,Translation,Rotation,Reflection,Shearing,	CE5CGW01D28920L34				Computer Graphics by Udit Agrawal		28/9		
					CE5CGW01D29920L35						29/9		
					CE5CGW01D30920L36						30/9		
					CE5CGW01D011020L37						1/10		
					CE5CGW01D031020L38						3/10		
9	5oct-10oct2	6		Rotation about arbitary axis parallel, perspective and	CE5CGW01D051020L39						5/10		
					CE5CGW01D061020L40						6/10		
					CE5CGW01D071020L41						7/10		

Faculty in Charge

HOD

WEEK	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual	Refrence Book - Chapter no. Page	link for	Completion Date	Assignment /Tutorial	AC's sign
	0			axis parallel, perspective and isometric projections	CE5CGW01D081020L42						8|10		
					CE5CGW01D091020L43						9|10		
					CE5CGW01D101020L44								
10	12oct-17Oct 20	6	V	Painter's, Z-buffer,Warnock's, Back-face Removal algorithm,Methods of interpolation,Bezier and B-splines	CE5CGW01D121020L45				Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill.Pg.no. 375,343,474,476,482		10|10		
					CE5CGW01D131020L46						13|10		
					CE5CGW01D141020L47						15|10		
					CE5CGW01D151020L48						16|10		
					CE5CGW01D161020L49						17|10		
					CE5CGW01D171020L50						19|10		
11	19Oct-24oct20	6	V	Gouraud Shading, Phong Shading,Constant Intensity Shading, Fast Shading,Properties of light,chromaticity Diagram,RGB,YIQ	CE5CGW01D191020L51						20|10		
					CE5CGW01D201020L52						21|10		
			VI		CE5CGW01D211020L53						22|10		
					CE5CGW01D221020L54						26|10		
					CE5CGW01D231020L55								
					CE5CGW01D241020L56						28|10		
14	26Oct-31oct20	5	VI	CMY, HSK,color models & their conversion,color selection & applications,Design of Animation sequences, animation Function,animation language,Key-Frame System, motion Specification	CE5CGW01D261020L57				Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill. Pg.No. 609,611,623,624,627,645		29|10		
					CE5CGW01D271020L58						4|11	30|10	
					CE5CGW01D281020L59						5|11		
					CE5CGW01D291020L60						5|11		
					CE5CGW01D311020L61						6|11	4|11|20	
15	5Nov-10Nov 20			Sessional II									

Faculty in Charge

HOD

Date: 30/07/2020

EW/CE/ 20-21

LESSON & TEACHING PLAN for Industrial Economics and Entrepreneurship Development

Department of Computer Engineering

y Name: Prof. Priyadarshini Ramteke						Sub:Industrial Economics and Entrepreneurship Development		Sec:	Year : 2020-21		Sem:- V
Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1Aug - 7Aug	0		**Skill Development**									
10 Aug-15 Aug20	5	I	Industrial Economics: Introduction	CE5IEEDW02D100820 L01						12/8/2020		
			Types of Business structures: Sole Proprietorship	CE5IEEDW02D110820 L02			https://youtu.be/iBAvFEK			13/08/2020		
			Partnership	CE5IEEDW02D120820 L03			https://youtu.be/iBAvFEK			14/08/2020		
			Corporation	CE5IEEDW02D130820 L04			https://youtu.be/iBAvFEK			17/08/2020		
			Company	CE5IEEDW02D140820 L05			https://youtu.be/iBAvFEK			18/08/2020		
17Aug-22Aug20	5		Difference between Public and Private Company	CE5IEEDW03D170820 L06			https://youtu.be/iBAvFEK			19/08/2020		
			Top and Bottom Line of the organization	CE5IEEDW03D180820 L07						20/08/2020		
			Economic Analysis	CE5IEEDW03D190820 L08						21/08/2020		
			Economic Prudence & Economies of Operation	CE5IEEDW03D200820 L09						25/08/2020		
			Revision and university questions	CE5IEEDW03D210820 L10						25/08/2020		

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
4	24Aug-29 Aug 20	5	II	Costing	CE5IEEDW04 D240820L11						24/08/2020		
				Market Structures	CE5IEEDW04 D250820L12						27/08/2020		
				Perfect Competition	CE5IEEDW04 D260820L13						28/08/2020		
				Monopolistic Competition & Monopoly	CE5IEEDW04 D270820L14						29/08/2020		
				Oligopoly	CE5IEEDW04 D280820L15						31/08/2020		
5	31 Aug-5 Sept 20	5		Pricing Strategies	CE5IEEDW05 D310820L16						2/9/2020		
				Business integration	CE5IEEDW05 D010920L17						3/9/2020	2.5/9/20	
				Economies and Diseconomies of Scale & Optimum Size of the	CE5IEEDW05 D020920L18						4/9/2020		
				LPG Policy	CE5IEEDW05 D030920L19						5/9/2020		
				Business Cycles	CE5IEEDW05 D040920L20						7/9/2020		
6	7 Sept-12Sept 20	5	III	Functions of Central Bank	CE5IEEDW06 D070920L21						8/9/2020		
				Functions of Commercial Banks	CE5IEEDW06 D080920L22						9/9/2020		
				Foreign Direct Investment	CE5IEEDW06 D090920L23						12/9/2020		
				Free Trade Vs. Protection	CE5IEEDW06 D100920L24						11/9/2020		
				Capital Formation	CE5IEEDW06 D110920L25						10/9/2020		
7	14 Sept - 19 Sept 20	5		Inflation: Types and Causes	CE5IEEDW07 D140920L26						14/9/2020		
				Inflation: Control and Effects	CE5IEEDW07 D150920L27						18/9/2020		
				Deflation and Stagnation	CE5IEEDW07 D160920L28						18/9/2020		
				Public Private Partnership	CE5IEEDW07 D170920L29						19/9/2020		
				Inclusive Growth	CE5IEEDW07 D180920L30						19/9/2020		

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
8	21 Sept - 25 Sept			Sessional I									
9	28 Sept - 3 Oct 20	5	V	Sources of finance	CE5IEEDW09 D280920L31						28-30/9/2020	30/9/20	
				Venture Capital and Angel Funding	CE5IEEDW09 D290920L32						1/10/2020		
				Capital Structure	CE5IEEDW09 D300920L33						16/10/2020		
				Working Capital	CE5IEEDW09 D011020L34						9/10/2020		
				Break Even Analysis	CE5IEEDW09 D021020L35						1/9/2020		
10	5 Oct - 10 Oct	5		Network Analysis Techniques: PERT/CPM	CE5IEEDW10 D051020L36						9/10/2020		
				Taxation	CE5IEEDW10 D061020L37						3,6/10/2020		
			VI	Small Scale Industries: Features and Problems	CE5IEEDW10 D071020L38						7/10/2020		
				Sickness in SSIs	CE5IEEDW10 D081020L39						8/10/2020		
11	12 Oct - 17 Oct 20	5		Technical Consultancy Organizations	CE5IEEDW10 D091020L40						12/10/2020	15/10/20	
				Government Policies to SSIs	CE5IEEDW11 D121020L41						13/10/2020		
				Tax Benefits and other Incentives to SSIs	CE5IEEDW11 D131020L42						15/10/2020		
			IV	Entrepreneurship Meaning and Concept	CE5IEEDW11 D141020L43						21/10/2020		
				Factors affecting entrepreneurship growth	CE5IEEDW11 D151020L44						22/10/2020		
				Motives influecing entrepreneurship	CE5IEEDW11 D161020L46						23/10/2020		
12	19Oct - 25 Oct 20	5		Project formulation	CE5IEEDW12 D191020L47						26/10/2020		
				Product Development	CE5IEEDW12 D201020L48								
				Market Survey and Research	CE5IEEDW12 D211020L49						4/11/2020		

CCOEW/CE / 20-21

Date: 30/ 7 / 2020

LESSON & TEACHING PLAN for Computer Architecture and Organization

Department of Computer Engineering

Faculty Name: Prof.Prasanna Lohe | **Sub: Computer Architecture and** | **Sec** | **Year : 2020-21** | **Sem:- V**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab	Refrence Book - Chapter no. Page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Computer Evaluation and Arithmetic:A Brief History of computers, Designing for Performance, Von Neumann Architecture, Computer Components,interconnection Structures.	CE5CAOW01D10820L01	CAOPPT1		Animated Videos. PPTS, You tube videos Link	Computer Organization and Architecture by W. Stallings		10/08		
					CE5CAOW01D11820L02						11/08		
					CE5CAOW01D12820L03						12/08		
					CE5CAOW01D13820L04						13/08		
					CE5CAOW01D14820L05						14/08		
2	17Aug-22 Aug20	6		Bus Interconnection, Scalar Data Types, Fixed and Floating point numbers, Signed numbers, Integer Arithmetic, 2's Complement method for multiplication.Booths Algorithm, Hardware Implementation, Division, Restoring and Non Restoring algorithms, Floating point representations, IEEE standards, Floating point arithmetic	CE5CAOW02D17820L06			Binary Addition/Subtraction Using 2's Complement, Practical Assignments			17/08		
					CE5CAOW02D18820L07						18/08		
					CE5CAOW02D19820L08						19/08		
					CE5CAOW02D20820L09						20/08		
					CE5CAOW02D21820L10						21/08		
					CE5CAOW02D22820L11						22/08		
3	24 Aug-29 Aug20	6	II	Processor Design:Machine Instruction characteristics, types of operands, types of operations, Addressing, Instruction formats, Processor organization, Register Organization	CE5CAOW03D24820L12	CAOPPT2		Solving Problems in groups/Pairs,, Assignments	Computer Organization by Carl Hamacher		24/08		
					CE5CAOW03D25820L13						25/08		
					CE5CAOW03D26820L14						26/08		
					CE5CAOW03D27820L15						27/08		
					CE5CAOW03D28820L16						28/08		
					CE5CAOW03D29820L17						29/08		
4	31Aug-5sept20	6		Instruction cycles, Instruction pipelining, ALU – Combinational ALUs and Sequential ALUs, RISC Architecture.	CE5CAOW03D31820L18			Animated Videos. PPTS, You tube videos Link			31/08		
					CE5CAOW03D01920L19						01/09		
					CE5CAOW03D02920L20						02/09		
					CE5CAOW03D03920L21						03/09		
					CE5CAOW03D04920L22						04/09		

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab	Refrence Book - Chapter no & page	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
					CE5CAOW03D05920L23						06/09		
5	7sept-12Sept 20	6	III	Single Bus Organization, Control Unit Operations: Instruction sequencing, Micro operations and Register Transfer.	CE5CAOW04D07920L24	CAOPPT3		Case Study of designing CU	Computer Organization by Carl Hamacher pg no : 411-445		07/09		
					CE5CAOW04D08920L25						08/09		
					CE5CAOW04D09920L26						09/09		
					CE5CAOW04D10920L27						10/09		
					CE5CAOW04D11920L28						11/09		
					CE5CAOW04D12920L29						12/09		
6	14Sept-19Spt 20	4		Hardwired Control : Design methods – State table and classical method, Design Examples - Multiplier CU,Micro-programmed Control	CE5CAOW05D14920L30						14/09		
					CE5CAOW05D17920L31						17/09		
					CE5CAOW05D18920L32						18/09		
					CE5CAOW05D19920L33						19/09		
7	21sept-26sept	5		**Sessional I**									
8	28sept-3oct20	5	IV	Microinstructions and micro-program sequencing Characteristics of memory systems, Internal and External Memory, Types of memories.	CE5CAOW06D28920L34	CAOPPT4		Google Search on the topic and submission group wise	Computer Organization by Carl Hamacher pg no : 291 to pg no 313		28/09		
					CE5CAOW06D29920L35						29/09		
					CE5CAOW06D30920L36						30/09		
					CE5CAOW06D011020L37						01/10		
					CE5CAOW06D031020L38						03/10		
9	5oct-10oct20	6		High-Speed Memories: Cache Memory, Organization and Mapping Techniques, Virtual Memory,Segmentation, Paging, Address Translation	CE5CAOW07D051020L39						05/10		
					CE5CAOW01D061020L40						06/10		
					CE5CAOW07D071020L41						07/10		
					CE5CAOW07D081020L42						08/10		
					CE5CAOW07D091020L43						09/10		
					CE5CAOW07D101020L44						10/10		
					CE5CAOW08D121020L45						12/10		
				Secondary Storage, Input/Output	CE5CAOW08D131020L46			hands on Implementation			13/10		

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab	Refrence Book Chapter no.	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
10	12oct-17Oct 20	6	V	Secondary Storage: Input Output Systems, Programmed I/O, Interrupt Driven I/O, I/O channels, Direct Memory Access (DMA), Buses and standard Interfaces.	CE5CAOW08D141020L47	CAOPPT5		n of Hard disk and Storage,Case Study of working mechanism of printer,scanner,mouse,Keyboard	Computer Organization by Carl Hamacher pg no : 203		15/10		
					CE5CAOW08D151020L48						16/10		
					CE5CAOW08D161020L49						19/10		
					CE5CAOW08D171020L50						19/10		
11	19Oct-24oct20	6		Working mechanisms of Peripherals: Keyboard, Mouse, Scanners, Video Displays, Touch Screen panel, Dot	CE5CAOW10D191020L51						20/10		
					CE5CAOW10D201020L52						21/10		
			VI	Superscalar Processors, Multiple Processor Organizations, Symmetric Multiprocessors, Clusters, Non-uniform Memory Access , Vector Computations, Bus allocation Schemes.	CE5CAOW01D211020L53	CAOPPT6		Case Study on working mechanism	Computer Organization by Carl Hamacher pg no : 617-656		21/10		
					CE5CAOW10D221020L54						22/10		
					CE5CAOW10D231020L55						23/10		
					CE5CAOW10D241020L56						24/10		
14	26Oct-31oct20	5		RISC: Instruction execution characteristics, use of large register file, compiler based register optimization, RISC architecture, pipelining. RISC vs. CISC	CE5CAOW11D261020L57						26/10		
					CE5CAOW11D271020L58						27/10		
					CE5CAOW11D281020L59						28/10		
					CE5CAOW11D291020L60						29/10		
					CE5CAOW11D311020L61						31/10		
15	5Nov-10Nov 20			Sessional II									

Sub. Teacher

Ac

Faculty in Charge

HOD

Date 1/ 8 / 2020

LESSON & TEACHING PLAN for Data Warehousing & Mining

Department of Computer Engineering

Faculty Name: Prof. Vidya Raut | Sub: Data Warehousing & Mining (BECME704T) | Sec: A | Year : 2020-21 | Sem:- III

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no, Page no,edition, No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Introduction to data warehousing, evolution of decision support systems	CE7DWMW02D1208201 01	DWM_IDW_ppt_01	DWM_IDW V_01		Data Warehousing Fundamentals – Paulraj Ponnaiah Wiley		10/8/20		
				Data warehouse life cycle, building a data warehouse,	CE7DWMW02D1408201 05						11/8/20		
2	17Aug-21 Aug20	5		Data Warehousing Components	CE7DWMW03D1908201 08	DWM_DWA_ppt_02					17/8/20		
				Data Warehousing Architecture, Trends in data warehousing Data marts, Metadata	CE7DWMW03D2108201 10						18/8 20/8 21/8		
3	24 Aug-29 Aug20	5	II	On Line Analytical Processing, :OLAP in the Data Warehouse:	CE7DWMW04D2508201 13	DWM_AP_ppt_03			Data Warehousing Fundamentals – Paulraj Ponnaiah Wiley		24/8 25/8		
				Demand for Online analytical processing,	CE7DWMW04D2608201 14						26/8		
				need for multidimensional analysis, fast access and powerful calculations, limitations of other analysis methods, OLAP definitions and rules	CE7DWMW04D2908201 16						27/8 28/8		
4	1Sep-5Sep20	4		OLAP characteristics, major features and functions, OLAP models the MOLAP model, the ROLAP model, ROLAP versus MOLAP	CE7DWMW01D0509201 20	DWM_OLAP_ppt_04					31/8 1/9 2/9 3/9 4/9		
5	7Sep-11 Sept 20	5	III	Multidimensional Data Models: Types of Data and Their Uses,	CE7DWMW02D0809201 22	DWM_MDM_ppt_05			Data Warehousing Fundamentals – Paulraj Ponnaiah Wiley		7/9 8/9 9,10,11/9	Assgn	
				from Tables and Spreadsheets to Data Cubes	CE7DWMW02D0909201 23								
				Identifying Facts and Dimensions, Designing Fact Tables,	CE7DWMW02D1109201 25	DWM_IFD_ppt_06					14/9 15/9 16/9 17/9 18/9		
6	14Sep-18Sep20	5		Designing Dimension Table, Data Warehouse Schemas, Introduction to OLTP	CE7DWMW03D1809201 30								

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refr... Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Sessional 1 practice									
7	21 Sep-25 Sep			Sessional I									
8	28 Sep-3 Oct 20	5	IV	Data Mining: Introduction: Motivation, Importance, Data Mining Functionalities Knowledge Discovery Process, KDD and Data Mining, Data Mining vs. Query Tools, , interesting patterns,	CE7DWMW04D300920L34	DWM_DM_ppt_07			https://nptel.ac.in/courses/106/105/106105174/		28/9		
											29/9		
				Classification of data mining systems, Major issues, from Data warehousing to data Mining							30/9		
											1/10.		
									Data Mining Concepts and Techniques by Jiawei Han ,Micheline Kamberr , JianPei		3/10		
9	5 Oct -9 Oct 20	5		Data Preprocessing: Need for Preprocessing the Data, Data Cleaning, Data Integration and Transformation, Data Reduction, Discrimination and Concept Hierarchy Generation	CE7DWMW02D071020L39	DWM_DP_ppt_08					5/10		
											6/10		
											7/10.		
			V	Mining Frequent Patterns, Associations and Correlations – Mining Methods – Mining Various Kinds of Association Rules	CE7DWMW02D091020L41	DWM_MFP_ppt_12					8/10	Assg 2	
											9/10		
10	12 Oct -16 Oct 20	3		Correlation Analysis – Constraint Based Association Mining – Classification and Prediction - Basic Concepts - Decision Tree Induction - Bayesian Classification	CE7DWMW03D141020L44	DWM_CA_ppt_13			https://nptel.ac.in/courses/106/105/106105174/		12/10		
											13/10.		
											14/10		
				Rule Based Classification – Classification by Back propagation – Support Vector Machines – Associative Classification – Lazy Learners – Other Classification Methods - Prediction	CE7DWMW03D161020L46	DWM_RBC_ppt_14					15/10		
											16/10		
11	19 Oct -23 Oct 20	5		Cluster Analysis - Types of Data – Categorization of Major Clustering Methods - K- means – Partitioning Methods	CE7DWMW041D211020L49	DWM_CA_ppt_15					19/10		
											20/10		
											21/10		
				Hierarchical Methods - Density-Based Methods –Grid Based Methods	CE7DWMW04D231020L51	DWM_HM_ppt_16			Data Mining Concepts and		22/10.		
											23/10		

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refr... Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	26 Oct-31 Oct 20	4	VI	– Model-Based Clustering Methods – Clustering High Dimensional Data Constraint – Based Cluster Analysis – Outlier Analysis	CE7DWMW05D281020L53	DWM_MBC_ppt_17			Techniques by Jiawei Han ,Micheline Kamberr , JianPei		26/10	Assg 3	
											27/10		
				Data Mining Applications. Social Impacts of Data Mining Case Studies: Mining WWW Mining Text Database Mining Spatial Databases	CE7DWMW05D311020L55	DWM_DMA_ppt_18					28/10 31/10		
13	2 Nov - 4 Nov20	3		Revision							2/11		
14	5 Nov - 10 Nov20	Sessional II											

Sub. Teacher
Prof. Vidya Raut

Ac

Faculty in Charge

HOD

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/CE/ 20-21

Date: 31/ 7 / 2020

LESSON & TEACHING PLAN for Engineering Physics

Department of Computer Engineering

Faculty Name: Prof. Sharayu Deote							Sub: Information Assurance and Network Sec			Year : 2020-21		Sem:- VII
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
1	24 Aug - 27 Aug	5	I	Security fundamentals ,Introduction Terminology Attacks ,security goals : Authentication & Authorization	CE7IANSW01D100820L01	IANS_CE_PPT_01		Socratic Questioning	Cryptography & network security by William stalling	https://docs.google.com/forms/d/e/1FAIpQLSfzcU8Wk0Cxog66kteqW1zRSWS7ZlNYxN8WC6dVzjCQlgFDCw/viewform?usp=sf_link	24/08		
				Ciber techniques:Substitution and Transposition Various algorithm and its implementation	CE7IANSW01D100820L02	IANS_CE_PPT_01							
					CE7IANSW01D100820L03	IANS_CE_PPT_01							
					CE7IANSW01D100820L04	IANS_CE_PPT_01					26/08		
					CE7IANSW01D100820L05	IANS_CE_PPT_01		Examples			27/08		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
2	30 Aug-21 ~~Aug21~~ 04sept	5	I	Attacks ,security goals : Authentication & Authorization	CE7IANSW02D170820L06	IANS_CE_PPT_02			Cryptography & network security by William stalling				
				One time pad ,Modular Arithmatic ,GCD	CE7IANSW02D170820L07	IANS_CE_PPT_02	AMP_CE_V01						
				stream cipher , secret splitting and sharing	CE7IANSW02D170820L08	IANS_CE_PPT_02							
				block cipher	CE7IANSW02D170820L09	IANS_CE_PPT_02	AMP_CE_V						
				Tutorial	CE7IANSW02D170820L10	IANS_CE_PPT_02						Assignment	
3	06 ~~Aug~~ Sept 20 ~~Aug20~~ sept	5	II	eclide algoriths, Chinese Remainder theorm ,	CE7IANSW03D240820L11	IANS_CE_PPT_03	AMP_CE_V					Tutorial	
				Descete Logarithm,	CE7IANSW03D250820L12	IANS_CE_PPT_03							
				Fermats Theorms	CE7IANSW03D240820L12	IANS_CE_PPT_03							
				Block generation & uses ,ECC	CE7IANSW03D250820L13	IANS_CE_PPT_03							
				Pentium real mode	CE7IANSW03D240820L13	IANS_CE_PPT_03							

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
				Tutorial	CE7IANSW03D250820L14	IANS_CE_PPT_03							
4	31 Aug-5Sept 20 / 7 sept / 18 sept	5	I	Hash Algorithms: SHA-1,MD5	CE7IANSW04D310820L16	IANS_CE_PPT_04		GD on implementation of algorithm			28/09 29/09		
				Cryptograhpy Symmetric key algorithm : DES	CE7IANSW04D020920L17	IANS_CE_PPT_4					16 17/09		
				AES	CE7IANSW04D310820L17	IANS_CE_PPT_04					20/09		
				Blowfish Algorithm,	CE7IANSW04D020920L18	IANS_CE_PPT_04					21/09		
				Attacks on DES	CE7IANSW04D310820L18	IANS_CE_PPT_5					13/09		
	20 sept / 07Sept-11Sept 20 / 24 sept	5		Modes of operations	CE7IANSW05D070920L21	IANS_CE_PPT_5					27/09 22/09		
				Linear cryptanalysis and Differential cryptanalysis	CE7IANSW05D080920L22	IANS_CE_PPT_5					23 24/09		
				Public key algorithm :RSA,Key Exchange	CE7IANSW05D070920L22	IANS_CE_PPT_5					27/09		
				Tutorial	CE7IANSW05D080920L23	IANS_CE_PPT_5							

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
			III	Key Management Introduction,	CE7IANSW05D070920L23	IANS_CE_PPT_6	AMP_CE_V						
5	21 Sept-19 Sept 20	4		Key Management: Generations, Distribution, Updation	CE7IANSW06D140920L26	IANS_CE_PPT_6							
				Digital Certificate, X.509 certificates,	CE7IANSW06D170920L27	IANS_CE_PPT_6							
				Digital Signature,	CE7IANSW06D140920L27	IANS_CE_PPT_6					19-oct		
				Diffiee Hellman Key Exchange	CE7IANSW06D170920L28	IANS_CE_PPT_6							
6	21Sept-25Sept 20			**Sessional I**									
7	28 Sept-03 Oct 20	5	IV	One Way Authentication,	CE7IANSW07D280920L29	IANS_CE_PPT_7							
				Kerberos.	CE7IANSW07D290920L30	IANS_CE_PPT_7							
				Network Security	CE7IANSW07D280920L30	IANS_CE_PPT_7							
				Layer Wise Security Concerns,	CE7IANSW07D290920L31	IANS_CE_PPT_7							
				IPSEC- Introduction, AH and ESP,	CE7IANSW07D280920L31	IANS_CE_PPT_7							
9	05 Oct-			Tunnel Mode, Transport	CE7IANSW08D051020L34	IANS_CE_PPT_7							
				Mode,	CE7IANSW08D061020L35	IANS_CE_PPT_8		GD on implementation of algorithm			08/oct		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	10 Oct 20	5	IV	Security Associations, SSL-Introduction,	CE7IANSW08D051020L35	IANS_CE_PPT_8							
				Handshake Protocol, Record Layer Protocol.	CE7IANSW08D061020L36	IANS_CE_PPT_8						Assignment	
				IKE-Internet Key Exchange Protocol.	CE7IANSW08D051020L36	IANS_CE_PPT_8					10/10/	Tutorial	
10				Intrusion Detection Systems: Introduction,	CE7IANSW09D121020L39	IANS_CE_PPT_09							
				Anomaly based	CE7IANSW09D131020L40	IANS_CE_PPT_09							
	12 Oct-17Oct 20	6	V	Signature Based, Host Based,	CE7IANSW09D121020L40	IANS_CE_PPT_09							
				Network Based Systems.	CE7IANSW09D131020L41	IANS_CE_PPT_09							
				Security Management and Applications	CE7IANSW09D121020L41	IANS_CE_PPT_09					19/oct		
				Intruders, Intrusion detection, Password management,	CE7IANSW09D131020L42	IANS_CE_PPT_10							
11				Worms, viruses, Trojans,	CE7IANSW10D191020L45	IANS_CE_PPT_10							
				Virus countermeasures, Firewalls,	CE7IANSW10D201020L46	IANS_CE_PPT_10							
	19 Oct-24 Oct 20	5		Firewall design Principals,	CE7IANSW10D191020L46	IANS_CE_PPT_10							
				Trusted system, Electronic	CE7IANSW10D201020L47	IANS_CE_PPT_10					26/oct		
				Payment: Introduction, Payment types, over internet	CE7IANSW10D191020L47	IANS_CE_PPT_11						Assignment	
12				Smart Cards, Chip card transactions and attacks payment	CE7IANSW11D261020L50	IANS_CE_PPT_11							

HOD

Faculty in Charge

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/ Tutorial Date	AC's sign
	26 Oct-31 Oct 20	5	VI	Mobile Payments, Electronic Cash.	CE7IANSW11D271020L51	IANS_CE_PPT_11							
				Cyber Crimes & Laws	CE7IANSW11D261020L51	IANS_CE_PPT_11							
				Introduction, Computer Forensics, Online Investigative tool	CE7IANSW11D271020L52	IANS_CE_PPT_11							
				tracing and recovering electronic	CE7IANSW11D261020L52	IANS_CE_PPT_11							
				Internet fraud, Cyber Stalking, Identity Theft,	CE7IANSW11D271020L53	IANS_CE_PPT_11							
				Industrial Espionage, Cyber Terrorism.	CE7IANSW11D261020L53	IANS_CE_PPT_11					31/oct		
				IT LAWS									
16		Sessional II											

Sub. Teacher

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	https://youtu.be/fezcbAbilHU	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Aug20			DHTML.	CME705TW03D270820L14			ii) Task given students for design creative web pages , also collect more info about web essentials as an assignment	A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications) ", 3rd Edition, Chris Bates		26|10|20		
				Client side programming,	CME705TW03D280820L15						26|10|20		
4	31Aug-5Sept20	5	II	Client side programming,	CME705TW04D310820L16						31|10|20		
				Java Script Language,	CME705TW04D010920L17						1|9|20		
				Java Script Language, syntax	CME705TW04D020920L18						2|9|20		
				host objects: Browsers	CME705TW04D030920L19	WT-02					3|9|20		
				host objects: Browsers	CME705TW04D040920L20						4|9|20 5|9|20		
				DOM	CME705TW05D070920L21						7|9|20		
5	7Sept-12 Sept 20	5		DOM prgram structure	CME705TW05D080920L22						8|9|20 9|9|20		
				AJAX	CME705TW05D090920L23						10|9|20		
				JAVA Applets,	CME705TW05D100920L24						11|9|20 11|9|20		
				server side programming:	CME705TW05D110920L25						12|9|20		
				server side programming:	CME705TW06D140920L26						14|9|20		
6	14Sept-19Spt 20	5	III	Java Servlets - basics,	CME705TW06D150920L27	WT-03		Given examples for more practse			15|9|20		
				Java Servlets - basics,	CME705TW06D160920L28						16|9|20		
				separating programming and presentations	CME705TW06D170920L29						17|9|20 18|9|20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	https://youtu.be/fezcbAbilHU	Reference Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
					CME705TW06D180920L30						19/9/20		

21 Sept-25Sept 2020 Sessional -I

7	28Sept-3Oct 20	5	III	JSP basics	CME705TW07D280920L31	WT-03		Given Task to find out applications for related topic	1) "Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)",		28/9/20		
				simple JSP pages.	CME705TW07D290920L32						29/9/20		
				Representing web data	CME705TW07D300920L33						30/9/20		
				database connectivity	CME705TW07D011020L34						1/10/20		
8	5Oct-9Oct	5	IV	JDBC	CME705TW08D051020L35	WT-04					3/10/20		
				Dynamic web pages,	CME705TW08D061020L36						5/10/20		
				Dynamic web pages,	CME705TW08D061020L37						6/10/20		
				XML, DTD	CME705TW08D071020L38			XML practice program			7/10/20		
					CME705TW08D081020L39						8/10/20		
				XML schema,	CME705TW08D091020L40						9/10/20		
9	12Oct-17Oct	6		DOM, SAX	CME705TW09D121020L41						11/10/20		
				Parsing XML Document using DOM/SAX parser.	CME705TW09D131020L42						12/10/20		
					CME705TW09D141020L43						13/10/20		
				Email Tools	CME705TW09D151020L44						14/10/20		
				FTP Tools	CME705TW09D161020L45						15/10/20		
					CME705TW09D171020L46						16/10/20		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	https://youtu.be/fezcbAbilHU	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
			V	WWW,TELNET, PUTTY,	CME705TW09D171020L47				3rd Edition, Chris Bates		17|10|20		
10	19Oct-24Oct	5		DNS, Web Services & Feeds	CME705TW10D191020L48	WT-05					19|10|20		
					CME705TW10D201020L49						20|10|20		
				SOAP, RSS Feeds	CME705TW10D211020L50						21|10|20		
				Building web Applications,	CME705TW10D221020L51						22|10|20		
				Cookies sessions,	CME705TW10D231020L52			Given task to find out more web application			23|10|20		
11	26Oct-31Oct	6	VI	APACHE TOMCAT,Accessibility	CME705TW11D261020L53	WT-05					26|10|20		
					CME705TW11D271020L54						27|10|20		
				Internationalization	CME705TW11D281020L55						28|10|20		
				Types of Web Attack ,Intrusions	CME705TW11D291020L56						29|10|20		
					CME705TW11D301020L57						30|10|20		
				Revision	CME705TW11D311020L58						31|10|20		
			Sessional II										

Sub. Teacher

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Faculty in Charge

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/CE / 20-21

Date: 7/ 7 / 2020

LESSON & TEACHING PLAN for Operating System

Department of Computer Engineering

Faculty Name: Prof. Shailesh Sahu | Sub: Operating System | Year : 2020-21 | Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	What is Operating System do(OS)	CE7OSW01D010820L01	FY_CE_ppt_01			Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		14/8		
				"Types of OS,Operating system services,"	CE7OSW01D010820L02	FY_CE_ppt_02					17/8		
				User-operating system Interface, System calls, Types of system calls	CE7OSW01D010820L03	FY_CE_ppt_03					14/8		
2	17Aug-21 Aug20	5	I	System programs,operating system structure, Virtual machines	CE7OSW02D010820L01	FY_CE_ppt_04			Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		18/8		
				FILE SYSTEM: File concepts, Access methods	CE7OSW02D010820L02	FY_CE_ppt_05					20/8		
				Directory & Disk structure	CE7OSW02D010820L03	FY_CE_ppt_06					21/8		
				File system Mounting,File sharing, protection File system structure,	CE7OSW03D010820L01	FY_CE_ppt_07			Opearting System Concepts by Avi		25/8		

Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
3	24 Aug-29 Aug20	5	I	File system implementation, Directory implementation,Allocation method,Free-space management, Efficiency & performance, recovery	CE7OSW03D0 10820L02	FY_CE_ppt_08			Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451		24/8		
4	31Aug-5 Sep 20	5	II	Process concept, process scheduling operations on process,interprocess communication	CE7OSW04D0 10820L01	FY_CE_ppt_09			Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128		31/8	31/8/2020 (1)	
				THREADING: Multithreaded programming overview,multithreading models.	CE7OSW04D0 10820L02	FY_CE_ppt_10					5/9		
5	7 sep-11 sep 20	5	II	PROCESS SCHEDULING: Basic concepts.	CE7OSW05D0 10820L01	FY_CE_ppt_11			Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257		8/9		
				scheduling criteria, scheduling algorithm.	CE7OSW05D0 10820L02	FY_CE_ppt_12					10/9		
				multiprocessor scheduling algorithm evaluationithm.	CE7OSW05D0 10820L03	FY_CE_ppt_13					11/9		
6	14 Sept-19 Spt 20	5	III	PROCESS SYNCHRONIZATION: Background" critical section problem Peterson's solution,synchronization,	CE7OSW06D0 10820L01	FY_CE_ppt_14			Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg no. 283-304		9/9		
7	21 sept to 25 sept 20	**Sessional- I (21 sept to 25 sept 20)**											
8	28 sept to3 oct 20	5	III	Hardware solution, semaphore monitors, classic problems of synchronization, types of semaphore.	CE7OSW08D0 10820L01	FY_CE_ppt_15			Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg no. 283-304		8/10	8/9/2020 (2)	

Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
9	5 oct-9 oct		IV	DEADLOCKS: System model, Deadlock characterization Methods for handling deadlocks Deadlock prevention,deadlock avoidance Deadlock detection Recovery from deadlock	CE7OSW09D0 10820L01	FY_CE_ppt_16			Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257 Chapter 7, pg no. 283-304		5/10		
					CE7OSW09D0 10820L02	FY_CE_ppt_17					7/10		
					CE7OSW09D0 10820L03	FY_CE_ppt_18					9/10		
10	12 oct - 17 oct 20		IV	SECONDARY STORAGE STRUCTURE: Overview of mass storage structure,Disk structure.	CE7OSW10D0 10820L01	FY_CE_ppt_19			Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396		15/10		
				Disk attachment, Disk scheduling, Disk management Introduction to RAID structure swapping.	CE7OSW10D0 10820L02	FY_CE_ppt_20					17/10		
11	19 oct-23 oct 20		V	contiguous memory allocation paging structure of page table, segmentation VIRTUAL MEMORY MANAGEMENT: Background demand paging copy-on-write, page replacement, allocation of frames Thrashing, memory mapped file Allocating kernel memory	CE7OSW11D0 10820L01	FY_CE_ppt_21			Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396		20/10		
					CE7OSW11D0 10820L02	FY_CE_ppt_22					28/10		

Faculty in Charge

HOD

Week No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
12	26 oct - 31 Oct 20	6	VI	SYSTEM PROTECTION Goals of protection principles and Domain of protection Access Matrix implementation Access control Revocation of access Right capability based systems language based protection SYSTEM SECURITY	CE705TA12D00 10IE20IL015	FY CE p pt 25			Operating System Concepts by Avi Silberschatz, Galvin Chapter 14 pg no. 901 to 30		20/10/2020 31/10/2020	3	
13		Sessional II (5 Nov to 10 Nov 20)											

Sub Teacher

Ac

Faculty in Charge

HOD

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CCOEW/AS / 20-21

Date: 07/07/2020

LESSON & TEACHING PLAN for Theory of Computation

Department of Computer Engineering

Faculty Name: Prof. Shailesh Sahu | Sub: Theory of Computation | Year : 2020-21 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	Strings, Alphabet, Language operations,Finite state machine definitions, Finite automation model.	BECME501TTOC W01D100820L01	TY_CE_ ppt_01			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 35 to45		10/8		
				Acceptance of strings and language, Non deterministic finite automation, Deterministic finite automation.	BECME501TTOC W01D110820L02	TY_CE_ ppt_02					12/8		
				Design of Automation	BECME501TTOC W01D120820L03	TY_CE_ ppt_03					14/8		
2	17Aug-21 Aug20	5	I	Design of Automation	BECME501TTOC W02D170820L01	TY_CE_ ppt_04			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J.		17/8		
				Design of Automation	BECME501TTOC W02D180820L02	TY_CE_ ppt_05					19/8		

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				Equivalence between NFA and DFA. Conversion of NFA into DFA	BECME501TTOC W02D190820L03	TY_CE_ ppt_06			Ullman Page No. 45 to 55		21/8		
3	24 Aug-29 Aug20	6	I	Minimization of FSM	BECME501TTOC W03D170820L01	TY_CE_ ppt_07			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 60 to 77		24/8		
				Equivalence between two FSM's	BECME501TTOC W03D180820L02	TY_CE_ ppt_08					27/8		
4	31Aug-5 Sep 20	6	I	Moore and Mealy machines	BECME501TTOC W04D190820L01	TY_CE_ ppt_09					28/8		
				Interconversion between Moore and Mealy machines.	BECME501TTOC W04D030920L02	TY_CE_ ppt_10					29/8	1 Assignment	
5	7 sep-11 sep 20	5	II	Introduction to Regular languages and Regular expression Regular set, Regular Expression and Regular languages smaple examples.	BECME501TTOC W05D170820L01	TY_CE_ ppt_11			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 79 to 105		07/9		
				Regular expression examples. Equivalence and Inter Conversion between Regular Expression and FA.	BECME501TTOC W05D180820L02	TY_CE_ ppt_12					03/09		
				Identity rules and manipulation of Regular Expression Interconversion of RE and FA.	BECME501TTOC W05D190820L03	TY_CE_ ppt_13					11/09		

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
6	14 Sept-19 Spt 20	5	II	Interconversion of RE and FA. Closure Properities of Regular set and Chomsky Hierarchy.	BECME501TTOC W06D030920L01	TY_CE_ ppt_14					19/09		
7	21 sept to 25 sept 20	**Sessional- I (21 sept to 25 sept 20)**											
8	28 sept to3 oct 20	5	II	Conversion from RE to RG and Right Linear to Left LinearConversion from Regular Grammar to FA, conversion for Left to Right linear Grammar Pumping Lemma for Regular Grammar.	BECME501TTOC W08D030920L01	TY_CE_ ppt_15			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No.105 to 154		03/10	2	
9	5 oct-9 oct		III	Introduction to CFG and derivation Trees. Left Derivation Tree and Right Derivation Tree.	BECME501TTOC W09D170820L01	TY_CE_ ppt_16			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 157 to 175		05/10		
				Chomsky normal form.	BECME501TTOC W09D180820L02	TY_CE_ ppt_17					06/10		
				Greibach normal form	BECME501TTOC W09D190820L03	TY_CE_ ppt_18					09/10		
10	12 oct - 17 oct 20		III	Push Down Automaton Definition and model.	BECME501TTOC W10D170820L01	TY_CE_ ppt_19			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 175 to 200, Page No. 200 to 235.		12/10		
				Closure Properties of CFL, Pumping lemma for CFL.	BECME501TTOC W10D180820L02	TY_CE_ ppt_20					15/10		

Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	19 oct-23 oct 20		IV	Turing Machine: Definition, Model of TM Design of TM, Universal Turing Machine. Tutorial: TM. Computable function.	BECME501TTOCW11D170820L01	TY_CE_ppt_21			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 234 to 380		20/10		
			IV	Recursive enumerable language Types of TM's (proofs not required). Linear bounded automata and Context sensitive language, Counter machine.	BECME501TTOCW11D180820L02	TY_CE_ppt_22					21/10		
12	26 oct -		V	Decidability and Undecidability of problems,Properties of recursive & recursively enumerable languages.Halting problems and Undecidability of language Post correspondence problem, Ackerman function, and Church's hypothesis.	BECME501TTOCW12D190820L01	TY_CE_ppt_23			Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 287 to 337		26/10		

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	31 Oct 20	6	VI	Recursive Function: Basic functions and operations on them, Bounded Minimalization, Primitive recursive function, μ-recursive function, Primitive recursive predicates, Mod and Div functions, Unbounded Minimization, Equivalence of Turing Computable function and μ-recursive function.					Guest Lecture		31/10	(3) Assign	
13		Sessional II (5 Nov to 10 Nov 20)											

Sub. Teacher

Ac

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Lab Practicals Plan

CCOEW/ Department of Computer Engineering 2020-21

Prof. S. Deote	TCPIP and Internet			Department: CE						
		BatchB1			B2			B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Planned Date	Perform Date	No. of Viva done and link for viva questions	Ac's Remark
pri	print	print	fill	fill	print	fill	fill	print	fill	fill	fill
1	To study TCP/IP protocol suit	10/08/20	10/08								
2	Configure star topology using Hub & Switch	17/08/20	17/08								
3	To Configure VLAN on switch	24/08/20	24/08			Due to online.					
4	To Configure VLAN on switch with Trunk mode	31/08/20	31/08			PR. conducted in 4					
5	To configure router and perform communication	07/09/20	07/09			Next.	batch.				
6	To implement NAT(Static,dyanamic,PAT)	28/09/	28/09								
7	To implement RIP Protocol on router	05/10	05/10								
8	To implement OSPF Protocol on router	12/10	12/10								
9	Configure BGP Protocol	26/10	26/10								

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Date: 31/ / 2020

CCOEW/CE/ 20-21

LESSON & TEACHING PLAN for TCPIP

Department of Computer Engineering

Faculty Name: Prof. Sharayu Deote | Sub:Transmission Control Protocol & | Year : 2020-21 | Sem:- V

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no edition	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
1	10Aug - 14Aug	5	I	: Comparison of OSI & TCP/IP model, Internetworking concepts & architecture model,	CE5TCPIPW01D100820L01	TCPIP_CE_PPT_01		· Socratic Questioning	TCPIP Protocol Suite Fourth Edition Behrouz a. Forouzan	https://docs.google.com/forms/d/e/1FAIpQLSfzcU8Wk0Cxog66ktaqW1zRS	completed		
				: IPV4 Address: Classful, Classless,	CE5TCPIPW01D110820L02	TCPIP_CE_PPT_02							
				NAP, ISP, RFC,Internet standards, Internet Backbone,	CE5TCPIPW01D120820L03	TCPIP_CE_PPT_01							
				CIDR(Class less interdomain Routing)	CE5TCPIPW01D130820L04	TCPIP_CE_PPT_02					14 Aug		
				Numericals on CIDR(subnetting)	CE5TCPIPW01D140820L05	TCPIP_CE_PPT_02		Examples			completed.		
				Numericals on CIDR(Supernetting)	CE5TCPIPW02D170820L06	TCPIP_CE_PPT_02		Subnetting Perform on Cisco Packet tracer					
				SpeCial address	CE5TCPIPW02D180820L07	TCPIP_CE_PPT_02			TCPIP Protocol Suite				

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no. edition	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
2	17Aug-21 Aug20	5	I	NAT, Delivery & forwarding of IP Packets, IP Datagram,	CE5TCPIPW02D190 820L08	TCPIP_CE_PPT_02			Fourth Edition Behrouz a. Forouzan		20-Aug		
				IPV4 Packet format	CE5TCPIPW02D200 820L09	TCPIP_CE_PPT_02					Completed		
				Tutorial	CE5TCPIPW02D210 820L10							#######	
3	24 Aug-29 Aug20	5	II		CE5TCPIPW03D240 820L11							Tutorial	
					CE5TCPIPW03D250 820L12								
					CE5TCPIPW03D260 820L13								
					CE5TCPIPW03D270 820L14						29 Aug.		
					CE5TCPIPW03D280 820L15								
					CE5TCPIPW03D290 820L16								
4	31Aug-5Sept20	5	I	Fragmentation	CE5TCPIPW04D310 820L16				TCPIP Protocol Suite Fourth Edition Behrouz a. Forouzan			Asi-1	
				, ARP	CE5TCPIPW04D020 920L17								
				, RARP.	CE5TCPIPW04D030 920L18								
				IPV6 Address: Addressing, Packet Format,	CE5TCPIPW04D040 920L19								

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no.edition	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
				IPV6 Address: Addressing, Packet Format,	CE5TCPIPW04D050 920L20								
5	07Sept-11Sept20	5	III	Transition from IPV4 to IPV	CE5TCPIPW05D070 920L21						12 Sep		
				ICMPv4,	CE5TCPIPW05D080 920L22								
				ICMPv4,	CE5TCPIPW05D090 920L23								
				ICMPV6.	CE5TCPIPW05D100 920L24								
				ICMPV6.	CE5TCPIPW05D110 920L25								
6	14 Sept-19 Sept 20	4		Routing protocols	CE5TCPIPW06D140 920L26								
				RIP	CE5TCPIPW06D150 920L27								
				OSPF	CE5TCPIPW06D160 920L28								
				BGP	CE5TCPIPW06D170 920L29								
7	21Sept-25Sept 20	Sessional I											
8	28 Sept- 03 Oct 20	5	IV	IP : Addressing,	CE5TCPIPW08D280 920L29						28/09		
				agents,phases	CE5TCPIPW08D290 920L30								
				problems in Mobile IP	CE5TCPIPW08D300 920L31								

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no. edition	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
	Oct 20			Multicasting &- multicasting,	CE5TCPIPW08D031 020L32						03		
				Routing protocols	CE5TCPIPW08D051 020L33						Oct		
9	05 Oct-10 Oct 20	5	IV	IGMP	CE5TCPIPW09D051 020L34								
				MOSPF,	CE5TCPIPW09D061 020L35	PPT		GD on implementation of algorithm					
				DVMRP and	CE5TCPIPW09D071 020L36								
				CBT	CE5TCPIPW09D081 020L37							Assignment 2	
					CE5TCPIPW09D091 020L38							Tutorial	
10	12 Oct-17Oct 20	6	V	UDP: Services	CE5TCPIPW10D121 020L39								
				Congestion control, Encapsulation & De-	CE5TCPIPW10D131 020L40	PPT							
				Multicasting & De-multicasting,	CE5TCPIPW10D141 020L41						completed 17 Oct		
				TCP: Services, Features,	CE5TCPIPW10D141 020L42								
				Segment Format,	CE5TCPIPW10D151 020L43								
					CE5TCPIPW10D161 020L44	PPT							
				TCP Connection State Transition Diagram	CE5TCPIPW11D191 020L45								

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Topic ID	PPt ID	Video ID	Activity/ Virtual lab link Teaching Aid	Reference Book - Chapter no. Page no. edition	link for quiz or poll	Completion Date	Assignment/Tutorial Date	AC's sign
11	19 Oct-24 Oct 20	5		Windows in TCP, Flow control	CE5TCPIPW11D20020L46	PPT					24/Oct		
				, Error control, Congestion Control,	CE5TCPIPW11D21120L47								
				TCP timer's option, SCTP.	CE5TCPIPW11D22102 0L48								
				Socket concepts and Socket programming.	CE5TCPIPW11D23102 0L49								
12	26 Oct-31 Oct 20	5	VI	DHCP,DNS	CE5TCPIPW12D26102 0L50	PPT					31-Oct 20	Assignment 3	
				TELNET, SSH, FTP,	CE5TCPIPW12D27102 0L51								
				, TFTP, HTTP	CE5TCPIPW12D28102 0L52								
				Electronic Mail: SMTP,	CE5TCPIPW12D29102 0L53								
				POP3, MIME	CE5TCPIPW12D30102 0L54								
				IMAP.	CE5TCPIPW12D31102 0L55								
16				Sessional II									

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Sub. Teacher

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Faculty in Charge

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Academic year

2019-20

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Lab Practicals Plan Sem. IV

CCOEW/CE / 19-20 Date: 16 /12 / 2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vidya S Raut		Subject: Object Oriented Methodlogy			for	Department: Computer Engineering						Sem:4th CE
			Batch B3			Batch B2			Batch B1			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	AC's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	fill
1	Study the basic concept of Object Oriented Programming language.	Study about basic concepts C languges, ie variables , functions.	16/12/19	16/12		19/12/19	26/12		20/12/19	20/12		
2	Write a simple C++ program to read and display the information, by using simple main function, and implement the same by using the concept of class and object.	Program using simple function in main and class Employee and Class Rectangle , Account class.	23/12/19 30/12/19	23/12 30/12		26/12/19 2/1/2020	2/1/20		27/12/19 3/1/2020	27/12 3/1/20		
3	Write a C++ program by using default and parameterized constructer.	Program for Person and Book constructer using default and parameterized constructer.	06/1/20 13/1/20			9/1/20 16/1/20	9/1		10/1/2020- 17/1/20	10/1		
4	Write a C++ program using the concept of function overloading.	Program for to print absolute value and print different data type values.	27/1/20 3/2/2020			30/1/20 6/2/2020			31/1/20- 7/2/2020-			
5	Write a C++ program using the concept of operator overloading.	Program to overloading '+' Operator to add two time object. And to concatenate two strings	17/2/20- 24/2/20			20/2/20 - 27/2/20			21/2/20- 28/2/20-			
6	Write a C++ program using the concept of inheritance..	Program on different types of inheritance.	2/3/2020- 9/3/20			5/3/2019- 12/3/2019			6/3/2020- 13/3/20			
7	Write a C++ program to implement the concept of Abstract class.	Program to implement abstract class Vehicle.	16/3/2020-			19/3/2019			20/3/20			
8	Write a C++ program to implement the concept of Exception Handling.	Program on different types of Exception.	23/3/2020-			26/3/2019			27/3/20			

Cummins College of Engineering for Women, Nagpur-441110

Dr. Milind Khanapurkar
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CCOEW/CE / 19-20

Date: 10 /12 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vidya S. Raut | Subject:Object Oriented Methodlogy | Department: Computer Engineering | SEM : 4thSemCE(2019-20)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
1	16/12/2019 to 21/12/2019	5	1	Course Objetive Introduction **Object Oriented Development** Object Oriented Themes. Object Modeling: Object & Classes Tutorial		Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 1,2,3,4 Pg No. 4, 15, 21,57	NPTEL PPT	16/12 17/12 20/12 21/12,23/12	Tutorial 23/12	
2	23/12/2019 to 27/12/2019	4		Object Modeling: Link and Associations ,Generalization And Inheritance, Grouping Constructs, A sample object module, Tutorial.	Activity 1.1:		NPTEL PPT	24/12 26/12 26/12 26/12	Tutorial 26/12	
3	30/12/2019 to 4/1/2020	6		Advanced Object Modling : Aggregation, Abstract Classes ,Mmultiple Inheritance Metadata,Candidate keys,Constriants.Tutorial	Activity 1.2		NPTEL PPT	27,27 27/12 29,30/12	Tutorial 30/12	Allocated extra
4	6/1/2020 to 10/1/2020	5	2	**Dynamic modeling :** Events & states Nested state diagrams Concurrency . Tutorial		Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 5,6 Pg No. 84,123	https://www.tutorialspoint.com/object_oriented_analysis_design/ooad_dynamic_model.htm	31/12 31/12 1, 2/1	Tutorial 2/1	
5	13/1/2020 to 16/1/2020	3		Advanced Dynami Modeling Concepts Sample Dynamic Module Functional models,Data Flow Diagrams.Specufying operation Constriants A sample functional module. Tutorial	Activity 2.1 : Activity 2.2 :		https://www.tutorialspoint.com/object_oriented_analysis_design/ooad_uml_analysis_model.htm and PPT	6/1 7/1 8/1 9/1 13/1 14, 15, 16	Assig 13/1 Tutorial 15/1	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
7	20/1/2020 to 24/1/2020			Annual Cultural Program						
8	27/1/2020 to 1/2/2020	6	3	**Design methodology** Overview of Analysis, Problem Statements, TM network, Object Modeling Various Phases	Activity 3.1:	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . . Ch No. 8 Pg No.148	PPT	27, 28 29, 30 30, 31		
9	3/2/2020 to 7/2/2020	5		Dynamic modeling, Various Phases Adding Operation, Refining the object model Tutorial, Tutorial	Activity 3.2:		PPT	1/2 3/2 4/2, 4/2	Tutorial 4/2	
10	10/02/20-14/02/20			**Sessional I**						
11	17/2/2020 to 20/2/2020	4	4	**System design** Overview systems Design.Allocating Subsystems Management of Data Stores.Choosing Software Control Implementation Handling Boundary Conditions, Setting Trade-Offs Priorites	Activity 4.1:	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 9 Pg No.198	System design PDF	5/2 6/2 24/2		
12	24/2/2020 to 29/2/2020	6		Common Architectural Framework Tutorial	Activity 4.2:		System design PDF	25/2 26/2 27/2		
13	2/3/2020 to 7/3/2020	6	5	**Object Design:** Overview Designing Algorithms Design Optimization Implementation of Control Adjustment of Inheritance. Tutorial	Activity 5.1: Activity 5.2:	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 10 Pg No. 227	PPT	29/2 2/3 3/3 3/3 4/3		
14	9/3/2020 to 13/3/2020	4		Design of Associations Object Representations Physical Packaging Documenting Design Decisions Tutorial			PPT	4/3 4/3 5/3 6/3		

Faculty in Charge

Dr. Milind Khanapurkar
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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
15	16/3/2020 to 21/3/2020	6	6	Comparison of methodologies Information Modeling Notations Implementation using Programming Languages Implementation using Database Systems Object Oriented Reusability ,Extensibility Robustness Tutorial	Activity 6.1: Activity 6.2	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William Iorensen . Ch No. 12 Pg No.266	PPT	11/3, 9/3 12/3		
16	23/3/2020 to 26/3/2020	4-Jan		Practice and Preparation on university Question Paper						
15	04/04/20- 09/04/20			Sessional II						

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Lab Practicals Plan

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Department of Computer Engineering

(Session 2019-2020)

Faculty Name: Prasanna Lohe

Fourth sem

SN	Name of Experiment	Batch # 1		Batch # 2		Batch # 3	
		Planned Date	Perform Date	Planned Date	Perform Date	Planned Date	Perform Date
1	Study of working of various storage media.	16/12	23/12	20/12	27/12	19/12	26/12
2	Study of COBOL coding sheet.	23/12	30/12	27/12	03/01	26/12	02/01
3	Write a program to demonstrate the use of	30/12		03/01		02/01	
4	Write a menu driven program to accept two numbers from keyboard and	06/01		10/01		09/01	
5	Write a program to demonstrate STRING and	13/01		17/01		16/01	
6	Write a program to single and multidimensional	20/01		24/01		23/01	
7	Write a program to demonstrate various conditions in COBOL.	27/01		31/01		30/01	
8	Write a program to demonstrate various table sorting methods.	03/02		07/02		06/02	

Subject Teacher

Dr. Milind Khanapurkar
Principal

CCOEW/CE/ 19-20

Date: 14/12/2019

LESSON & TEACHING PLAN

Faculty Name: Prof. Prasanna Lohe | **Subject: FSDP** | **EVEN SEM (2019-20)** | **Sem:- 4th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16 DEC TO 21 DEC	5	1	Introduction: File structure design, File processing operations :open, close, read, write, seek.	Grp Discussion/Google Serach/ You tube Videos/Assignments	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos	20/12/19		
2	23 DEC TO 27 DEC	5	1	Unix directory structure.Secondary storage devices: disks, tapes, CD-ROM. Buffer management. I/O in Unix.	Assignment/ Problem Solving practice	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos/Live Execution	31/12/19		
3	30 DEC TO 04 JAN	5	2	File Structure Concepts: Field & record organization, Using classes to manipulate buffers, Record access, Recordstructures, file access & file organization,	Presentation/ grp Discussion/Live examples	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos	02/01/20		
4	06 JAN TO 10 JAN	5	2	Abstract data models for file access. Metadata. Extensibility, Portability & standardization.	Presentation/ grp Discussion/Live examples	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An	Chalk and Board/PPT/Videos	04/01/20		
5	13 JAN TO 17 JAN	5	3	Data Compression, Reclaiming spaces in files, Introduction to internal sorting and Binary searching.	Videos/Assignmment/Problem Solving Practice	Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos	14/01		
6	27 JAN TO 01 FEB	5	3	Keysorting.Indexing concepts. Object I/O.	Gooogle Search data collection/ Aniamted Videos/Assignments	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos/Live Execution	31/01		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7				**Sessional I**						
8	**03 FEB TO 07 FEB**	**6**	**3**	Multiple keys indexing. Inverted lists, Selective indexes, Binding.	Gooogle Search data collection/ Aniamted Videos/Assignments	Michael J Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos/Live Execution			
9	**17 FEB TO 21 FEB**	**5**	**4**	Cosequential processing : Object-Oriented model, its application. Internal sorting: a second look.	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-	Chalk and Board/PPT/Videos/Live Execution			
10	**24 FEB TO 29 FEB**	**4**	**4**	File Merging :Sorting of large files on disks. Sorting files on tapes. Sort merge packages. Sorting and Cosequential processing in UNIX	Live Example/Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos/Live Execution			
11	**02 MAR TO 07 MAR**	**6**	**5**	Multilevel indexing : Indexing using Binary Search trees. OOP based B-trees. B-tree methods Search, Insert and others. Deletion, merging & redistribution	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-	Chalk and Board/PPT/Videos/Live Execution			
12	**09 MAR TO 13 MAR**	**5**	**5**	B*trees. Virtual B-trees. VL records & keys. Indexed sequential file access and Prefix B+trees.	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach	Chalk and Board/PPT/Videos/Live Execution			
13	**16 MAR TO 21 MAR**	**5**	**6**	Hashing : Introduction, a simple hashing algorithm. Hashing functions and record distributions. Collision resolution.	Gooogle Search data collection/ Aniamted Videos/Assignments/Roll	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An	Chalk and Board/PPT/Videos/Live Execution			
14	**23 MAR TO 27 MAR**	**5**	**6**	Buckets. Making deletions. Pattern of record access. External hashing.	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Object-Oriented Approach using C++. (Addison-Wesley) (LPE)	Chalk and Board/PPT/Videos/Live Execution			
15	**30 MAR TO 31 MARCH**	**5**	**6**	Implementation. Deletion. Performance.Alternative approaches.	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Michael J.Folk, Bill Zoellick, Greg Riccard :File Structures : An Object-Oriented Approach using C++. (Addison-	Chalk and Board/PPT/Videos/Live Execution			
16				**Sessional II**						

Faculty in Charge

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HOD

CCOEW/CE / 19-20

Date: 09 / 12 / 2019

LESSON & TEACHING PLAN for NUMERICAL COMPUTATION TECHNIQUES

Department of Computer Engineering

Faculty Name:Asst. Prof. Pratik Heat | **Year : 2019-20** | **Sem:- IV th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
Skill Development (9 Dec to 13 Dec)										
2	16/12/19-21/12/19	6	1	Problem solving & computers Numerical methods for roots of equations polynomial Machine Structure transcendental quadratic equations		Numerical Methods by Dr.P.kandaswamy(Page no 53-97)	LCD ,Projector and chalk board, ppt on componenets of system software by john donvan	18/12		
3	23/12/19-27/12/19	6	1	Bisection Method Newton Raphson method False position method			LCD ,Projector and chalk board ,ppt on assesmblers by john donvan	20/12		
4	30/12/19-4/1/20	6	2	Solution of Simultaneous Equations Gauss Elimination Gauss Seidal				27/12		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Sub Topic	Activity/ Teaching Aid	Refre... Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
5	06/1/20-10/1/20	5	2	Gauss- Jordan Methods Matrix methods Inversion Interpolation Linear & polynomial		Numerical Methods by Dr.P.kandaswamy(Page no 505-516)	LCD ,Projector and chalk board and animated video of shaun micheal stone on memory management	01/01		
6	13/1/20-17/1/20	5	3	Numerical differentiation by polynomial fit Numerical integration by Trapezoidal Rule				03/01		
Ananaya Festival (20 Jan-24 Jan)										
7	27/1/20-1/2/20	5	3	Simpson Rule Gaussion Quadratre.		Numerical Methods by Dr.P.kandaswamy(Page no 300-318)	LCD ,Projector and chalk board and PPTs on compiler by john donvan	05/02		
8	3/2/20-7/2/20	5	4	Sampling frequency distribution measures of central tendency, dispersion moments		Numerical Methods by Dr.P.kandaswamy(Page no 202-223)				
Sessional -1 (10 Feb-15 feb)										

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refre... Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
10	17/2/20-21/2/20	5	4	Discrete probability distributions Probability Various types of distributions			LCD ,Projector and chalk board and PPTs on compiler by john donvan			
11	24/2/20-29/2/20	6	5	Regression Linear LS fit,Nonlinear fit Polynomial function			LCD ,Projector and chalk board and PPTs on device driver by john donvan			
12	2/3/20-7/3/20	6	5	Correlation Coefficient Properties of correlation coefficient. Multiple Partial and Rank correlation		Advanced Engineering Mathematics s.chand ublication by H.Kdass				
13	9/3/20-13/3/20	5	6	Test of significance: Introduction						
14	23/3/20-31/3/20	5	6	The 2-test. The t-test, the F-test .		Advanced Engineering Mathematics s.chand ublication by H.Kdass	LCD ,Projector and computer system			
16	Sessional -2 (4 Apr-9 Apr)									

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Faculty in Charge

HOD

CCOEW/CE / 19-20

Date: 13 / 12 / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sneha Uttarwar						Subject: DMGT		SEM IV CE (2019-20)		Sem:- EVEN
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16 Dec - 21 Dec	5	I	Propositions and Logical Operations, Quantifiers, Conditional Statements and Tautologie	Form a question bank on this topic		PPT and vedio for application	18/12/19		
2	23 Dec - 27 Dec	4		Basic concepts of set theory, Operations on Sets, The power set	search about application of set theory in CE through internet		PPT with diagram	23/12/19		
3	30 Dec - 4 Jan	6	II	Properties of Relations, Equivalence Relations & Partitions	Solving example		Using PPT	Tutorial -I 6/01/20		
4	6 Jan-10 Jan	5		Compatible Relation, Manipulation of Relations, Composition of Relations, Transitive Closure of a relation, Partial order relation, Partially ordered set	Solving example		Using PPT	~~Tutorial-I~~ 9/0/20		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	13 Jan-16 Jan	4	II	Relations and Digraphs,Matrix of Relation, Paths in Relations and Digraphs	Solving example		Using PPT	15/01/20		
Ananya Cultural Festival 2020 (20-26th January)										
6	27 Jan - 1 Feb	6		Hasse Diagrams, Definition, Composition of functions, Types of Functions, Invertible Function, Permutation Function, Characteristics function of a set with Theorems	Solving example		Using PPT	Tutorial - II 30/01/20		
7	3 Feb - 7 Feb	5	VI	Generating Functions, Recurrence Relations,Counting: Permutations	Dividing students into group and Solving different example		Using PPT	Tutorial - III		
				Counting: Permutations & Combinations,Pigeonhole Principle with Simple Applications			Using PPT	7/02/20		
SESSIONAL - I (10 Feb - 15 Feb)										
8	17 Feb - 22 Feb	6	V	Basic concepts of Graph Theory, Digraphs, Basic definitions, Paths and Circuits, Reachability and Connectedness Subgraphs & Quotient Graphs,	Solving example		Using PPT			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
9	24 Feb - 29 Feb	6	V	Isomorphic digraphs & Transitive Closure, digraph, Euler's Path & Circuit (only definitions and examples,	Dividing students into group and Solving different example		Using PPT	29/02		
10	2 March - 7 March	6		Trees, Binary Tree, Labeled Trees, Undirected Trees, Spanning Trees of Connected Relations,Prim's Algorithm to construct Spanning	Solving example		Using PPT	9/03	06/03 Tutorial IV	
11	9 March - 13 March	5	III	Binary Operations, Properties, Semigroups, Monoids, SubsemigroupSubmonoid, Isomorphism & Homomorphism Groups (only definitions and examples)	Solving example		Using PPT	16/03	~~12/03~~	
12	16 - 21 March	6	IV	Rings, Fields, Integral Domain, , Ring Homomorphism (definitions & examples), Lattices: Properties, Types of Lattices, Sub lattices, Isomorphic Lattices,Complemented & Modular Lattices (definitions &	Dividing students into group and Solving different example		Using PPT	21/03	18/03 Tutorial V	
13	23 -27 March	5		Boolean Algebra: Definition, Properties,Simplification of Switching Circuits	~~Seminar~~ Revision		Using PPT	27/03		
	1 April - 8 April	Sessional II								

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/CE /19-20

Date: 10 / 12 / 2019

LESSON & TEACHING PLAN for MICROPROCESSOR

Department of Computer Engineering

Faculty Name: Prof. Harshwardhan Kharpate | Sub: Microprocessor | Session: (2018-19) | Sem:- Fourth

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
1	16/12/19-21/12/19	6	I	8086 architecture and pin configuration, Software model of 8086 microprocessor	Comparative study	Advance Microprocessors and Peripherals by K M Burchundi. Pg No : 01-38	PPT of Architecture and Pin diagram, Black board and chalk	21/12/2019		
2	23/12/19-27/12/19	4		Memory addresses space and data organization. Data types. Segment registers, memory segmentation	Fetch-Decode-Execute		Animated PPTon address generation,Program structureVideo	01/01/2020		
3	30/12/19-4/1/20	6		IP & Data registers, Pointer, Index registers. Memory addresses generation. 8086 Instruction set overview, addressing modes.8086 instruction formats.	Problems on address generation,Passing the ball/Taking the command	Advance Microprocessors and Peripherals by K M Burchundi. Pg No : 35-77		07/01/2020		
4	6/1/20-10/1/20	5	II	8086 programming : Integer instructions and computations: Data transfer instructions.	Programming	8086 Microprocessors by Walter Triebel, Avtar Singh. Pg No. 137	Blackboard & Chalk ,PPT	14/01/2020		
5	13/1/19-18/1/19	6		Arithmetic instructions and their use in 8086 programming. Programs.	Programming	8086 Microprocessors by Walter Triebel, Avtar Singh.	Blackboard & Chalk ,PPT	27/01/2020		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
6	20/1/19-24/1/19	5		**Ananya 2k20**						
7	27/1/20-1/2/20	6	III	8086 programming: logical instructions. Shift and rotate instructions and their use in 8086 programming. 8086 flag register and Flag control instructions	Programming/Understanding shift and rotate through student's register activity	8086 Microprocessors by Walter Triebel, Avtar Singh. Pg No. 179	Blackboard & Chalk ,PPT	06/02/2020		
8	3/2/20-7/2/20	5		compare instruction, control flow and jump instructions. Loops & loop handling instructions. 8086 programming using these instructions.		8086 Microprocessors by Walter Triebel, Avtar Singh. Pg No. 200	Blackboard & Chalk ,PPT			
9	10/2/20-14/2/20	6		**Sessional I**						

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
10	15/2/20-21/2/20	5	IV	The 8086 stack segment and stack related instructions. 8086 I/O Address space. Subroutines and related instructions, Parameter passing, Concept of Macros	1.Make students Group and give them one object(pen,pencil etc) & student will write test plan, test cases, & different paths.	8086 Microprocessors by Walter Triebel, Avtar Singh. Pg No. 229	Blackboard & Chalk ,PPT,NPTEL Lecture			
11	24/2/20-29/2/20	6		Status saving on stack. Concept of recursion at assembly program level. 8086 Programming using subroutines, recursion and macros.	1. Write simple c program &test their basic paths 2. stress testing by thread & rubberband	8086 Microprocessors by Walter Triebel, Avtar Singh. Pg No. 297	Blackboard & Chalk ,PPT,NPTEL Lecture			
12	2/3/20-7/3/20	6	V	8086 I/O: Types of input output, isolated I/O interface, input output data transfers, I/O instructions and bus cycles.	1. Students play game that they find minum price (with quality+ duration+no. of people) of objects and make decision accordingly	Advance Microprocessors and Peripherals by K M Burchundi. Pg No : 149	PPT,NPTEL Vedios, Bharatacharya education video			
13	9/3/20-13/3/20	4		Programmable Peripheral Interface 8255 PPI: pin diagram, internal organization, modes of operation. 8086 I/O programming using 8255.	1. Mini project group tell the scop of their project. 2. Calculate cost of object with COCOMO model & numerical 3. distribution game	8086 Microprocessors by Walter Triebel, Avtar Singh. Pg No. 530	PPT,NPTEL Vedios, Bharatacharya education video			
14	16/3/20-21/3/20	6	VI	8086 Interrupts types, priority and instructions. Interrupt vector table, External hardware-interrupt interface signals & interrupts sequence. Software interrupts. Non-maskable interrupts.	1.How they avoid risk in their problem statement 2.Students have to prepare RMMM plan for their mini project.	8086 Microprocessors by Walter Triebel, Avtar Singh. Pg No. 545	PPT,NPTEL Vedios, Bharatacharya education video			
15	23/3/20-31/3/20	6		Programmable Interrupt Controller 8259: pin diagram, internal organization, modes of operation. 8086 Interrupt-driven programming using 8259.	1. Explain any feedback form and reveiews(quality). 2. one student act as SCM coordinator & others are developers.		PPT,NPTEL Vedios, Bharatacharya education video			
16	4/4/20-4/4/20									

Sessional II

Faculty in Charge

HOD

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Lab Practicals Plan Sem. VI

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Suruchi Kitey | **Subject: SEPM** | **for** | **Department: Computer Engineering**

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoT's Remark
P1	Introduction to rational rose software.	24-Dec-19	24|12		1-Jan-20	1|1|20		19-Dec-19	26|12|19		Suruchi
P2	To perform user's view analysis: Use case diagram	31-Dec-19	31|12		8-Jan-20	8|1|20		26-Dec-19	2|01|20		
P3(A)	To draw structural view diagram: Class diagram,object diagram	7-Jan-20	28|1|20		15-Jan-20	5|2|20		2-Jan-20	9|1|20		
(B)	To draw structural view diagram: Class diagram,object diagram using	1/14/2020	28|1|20		29-Jan-20	5|2|20		9-Jan-20	6|2|20		
P4	To draw the behavioral view diagram: Sequence diagram	1/28/2020	4|2|20		5-Feb-20			16-Jan-20			
P5	To draw the behavioral view diagram: Collaboration diagram	2/4/2020			19-Feb-20			30-Jan-20			
P6	To draw the behavioral view diagram: State chart diagram	18-Feb-20			26-Feb-20			6-Feb-20			
P7	To draw the behavioral view diagram: Activity diagram	25-Feb-20			4-Mar-20			20-Feb-20			
P8	To draw implementation view diagram: Component diagram	3-Mar-20			11-Mar-20			27-Feb-20			
P9	To draw enviromental view diagram: Deployment diagram	17-Mar-20			18-Mar-20			5-Mar-20			

Faculty in charge

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HoD

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/CE /19-20

Date: 10 / 12 / 2019

LESSON & TEACHING PLAN for SEPM

Department of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Session: (2018-19) | Sem:- Sixth

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
1	16/12/19-21/12/19	6	I	Introduction,CO Discussion evolving role of software software characteristics software myths software process	1.1	"Pressman R., ""Software Engineering, A Practitioners Approach"", Tata MCGraw Hill Publication pg 34,36,45,53,54,71,79,80,81,83,86,88,106,110"	PPT on S/w process	16|12|19 18|12|19 19|12|19 19|12|19 20|12|19		Jvikey
2	23/12/19-27/12/19	4		software engineering software development phases waterfall model,RAD model prototype model incremental model spiral model,WINWIN spiral model	1.2 1. Comparitive study of all models 2. drawing competion of digram(all models)			20|12|19 23|12|19 23|12|19 24|12|19 26|12|19		
3	30/12/19-4/1/20	6		concurrent,agile process extreme programming System Engineering: Hierarchy Business Process and Product Engineering: Overview Requirements Engineering	1.Distribute chits(story) of paper having some numbers and theory, students have to decide which chits are combine together & process 1st and also tell the feedback of story 1.3 combination.	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 157	PPT on System, business engg.	27|12|19 30|12|19 31|12|19 1|1|20 3|1|20	A-1 3/1/20	Jvikey

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
4	6/1/20-10/1/20	5	II	Initiating the process, Eliciting Requirements Building the Requirements Model Negotiating, Validatingrequirements requirements Requirements Analysis	1. Make a group of Students(5 in each) one group gather requirement from other group and from that requirement they analyze, negotitate & validate requirement and make requirement table (ex. Requirement of technical committee,decoration etc in anannya)	6,208,218,226,233		6/1/20 08/1/20 8/1/20 9/1/20 10/1/20 14/1/20		
5	13/1/19-18/1/19	6		Scenario-Based Analysis Requirements Modeling strategies Flow-Oriented Modeling Class based modeling SRS	1.4 From above activity students draw the all types of modeling diagrams			15/1/20 16/1/20 27/1/20 28/1/20		
6	20/1/19-24/1/19	5		**Ananya 2k20**						
7	27/1/20-1/2/20	6	III	Design Process Design Principles, and Concepts Effective Modular design The Design Model: Data,Architectural,Interface design Architectural Design: Software Architecture	1. Give them analysis of any problem statement and prepare the design model(total stackholders,output benefited etc)	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 261,265,274,291,298,357,361,373,324	PPT on Interface design	31/1/20 03/2/20 03/2/20 04/2/20		
8	3/2/20-7/2/20	5		Architectural Styles & Design Interface Design: Rules User Interface Analysis and Design Applying Interface Design Steps Component- level Design	1.5			5/2/20 6/2/20 4/2/20 7/2/20	A-II 5/2/20	
9	10/2/20-14/2/20	6		**Sessional I**						

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WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
10	15/2/20-21/2/20	5	IV	Testing Tactics: Testing Fundamentals Control Structure Testing Black Box Testing. A Strategic approach and Strategic Issues of testing	1.Make students Group and give them one object(pen,pencil etc) & student will write test plan, test cases, & different paths.	Pressman R., "Software Engineering, A Practitioners Approach", Tata				
11	24/2/20-29/2/20	6		White Box Testing: Basis Path TestingUnit Testing Integration Testing Validation Testing, Debugging	1. Write simple c program &test their basic paths 2. stress testing by thread & rubberband	MCGraw Hill Publication pg 393,394,397,406,411,421				
12	2/3/20-7/3/20	6	V	Management Spectrum: 4 P's Critical practices Metrics in process and project domains software measurement, metrics for software quality,	1. Students play game that they find minum price (with quality+ duration+no. of people) of objects and make decision accordingly	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 629,644,650,661,677,696,698				
13	9/3/20-13/3/20	4		project planning objectives software scope and feasibility Decomposition Techniques Empirical Estimation Models Specialized Estimation tech Make by decision	1. Mini project group tell the scop of their project. 2. Calculate cost of object with COCOMO model & numerical 3. distribution game					
14	16/3/20-21/3/20	6		Reactive versus Proactive S/w Risk Risk Identification, projection, refinement RMMM, Task set for software project defining a task network scheduling,	1.How they avoid risk in their problem statement 2.Students have to prepare RMMM plan for their mini project.	Pressman R., "Software Engineering, A Practitioners Approach", Tata				

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WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
15	23/3/20-31/3/20	6	VI	earned value analysis Software Quality Factors SQA Activities Software reviews Software reliability,FTR software configuration management the SCM Repository SCM process	1. Explain any feedback form and reveiews(quality). 2. one student act as SCM coordinator & others are developers.	Approach , Tata MCGraw Hill Publication pg 727,737,737-740,716,722,749,751,762,772,780	https://www.youtube.com/watch?v=AaHaLjuzUm8			
16	4/4/20-9/4/20	Sessional II								

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Faculty in Charge

HOD

Lab Practicals Plan Sem. II

Date:09 /12 /2019

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pratik Hepat		Subject: DAA Practical		for	Department: Comuter Engineering			
		Batch B1			Batch B3			
P.no	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill
1	Write a program to implement bubble sort, selection sort, Heap sort.		17-12-19			18-12-19			
2	Write A program to implement binary search algorithm		24-12-19			01-01-20			
3	Write a program to MST using prim's algorithm		31-12-19			08-01-20			
4	Write a program to MST using krushkal's algorithm.		07-01-20			15-01-20			
5	Write a program to implement SSSP Dijikstra's algorithm.		14-01-20			28-01-20			

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HoD

6	Write a program to implement travelling salesman problem		27-01-20			05-02-20			
7	Write a program to implement N-Queen's problem		04-02-20			12-02-20			
8	Write a program to implement DFS on connected graph.		11-02-20			26-02-20			
9	Write a program to implement BFS on connected graph.		18-02-20			04-03-20			

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Faculty in charge

HoD

CCOEW/CE / 19-20

Date: 09 / 12 / 2019

LESSON & TEACHING PLAN for Design and Analysis of Algorithm

Department of Computer Engineering

Faculty Name: Prof. Pratik Hepat | Year : 2019-20 | Sem:- VI th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
Skill Development (9 Dec to 13 Dec)										
2	16/12/19-21/12/19	6	2	Asymptotic notations of analysis of algo. worst case and average case analysis amortized analysis sorting algorithms selection sort, insertion sort, bubble sort heap sort		Advance in Alogorithm by corman Ch 02 pg no 2-24, Ch 02 pg no 35-40, Ch 03 pg no. 60-77	LCD ,Projector and chalk board, ppt on componenets of system software by john donvan	20/12		
3	23/12/19-27/12/19	6	2	External Sorting lower bound proof elementary and advanced data structures with operations on them and their time complexity space complexity			LCD ,Projector and chalk board ,ppt on assesmblers by john donvan	24/12 26/12		
4	30/12/19-4/1/20	5	3	Greedy method – Basic strategy application to job sequencing with deadlines problem minimum cost spanning trees single source shortest path. prims and krushkal algo				01/01		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Sub Topic	Activity/ Teaching Aid	Refrence Book - Chapter No. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
5	06/1/20-10/1/20	5	3	Divide and conquer Basic strategy binary search Quick sort Merge sort Fast Fourier Transform		Advance in Alogorithm by corman Ch 02 pg no 2-24, Ch 02 pg no 35-40, Ch 03 pg no. 60-77	LCD ,Projector and chalk board and animated video of shaun micheal stone on memory management			
6	12/1/20-18/1/20	6	4	Dynamic Programming - Basic strategy multistage graphs all pair shortest path						
Ananaya Festival (20 Jan-24 Jan)										
7	27/1/20-1/2/20	5	4	single source shortest paths optimal binary search trees traveling salesman problem.		Advance in Alogorithm by corman Ch 02 pg no 2-24, Ch 02 pg no 35-40, Ch 03	LCD ,Projector and chalk board and PPTs on compiler by john donvan			
8	3/2/20-7/2/20	6	5	Basic Traversal and Search Techniques breadth first search connected components Backtracking basic strategy		Advance in Alogorithm by corman Ch 02 pg no 2-24, Ch 02 pg no 35-40, Ch 03 pg no. 60-77				
Sessional -1 (10 Feb-15 feb)										

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Sub Topic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
10	17/2/20-21/2/20	6	5	8 – Queen's problem Graph coloring Hamiltonian cycles.		Advance in Alogorithm by corman Ch 02 pg no 2-24, Ch 02 pg no 35-40, Ch 03 pg no. 60-77	LCD ,Projector and chalk board and PPTs on compiler by john donvan			
11	24/2/20-29/2/20	5	6	NP-hard and NP -complete problems non deterministic algorithms NP-hard and NP complete			LCD ,Projector and chalk board and PPTs on device driver by john donvan			
12	2/3/20-7/3/20	6	6	Cook's Theorem decision and optimization problems decision and optimization problems						
13	9/3/20-13/3/20	5	1	Introduction to Iteration, Design IssuesUse of Loops, Efficiency of Algorithms, Estimating & Specifying Execution Times			LCD ,Projector and computer system			
14	23/3/20-31/3/20	5	1	Order Notations, Algorithm Strategies, Mathematical foundations, summation of arithmetic and geometric series, bound summations using integration, Design using Recursion.						
16	Sessional -2 (4 Apr-9 Apr)									

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Lab Practicals Plan Sem. II

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. A.Borkar			**Subject: DAA Practical**		Department:- Comp. Engg	
			Batch B2			
P.no	**Name of experiment**		**Planned Date**	**Perform Date**	**No. of Viva done**	**HoD's Remark**
print	print	possible Variations	print	fill	fill	fill
1	Write a program to implement bubble sort, selection sort, Heap sort.		19-12-2019 & 26-12-2019	19/12/19 26/12/19		
2	Write A program to implement binary search algorithm		31-12-2019 & 02-01-2020	31/12/19 2/1/20.	08	
3	Write a program to MST using prim's algorithm		09-01-2020 & 16-01-2020	9/1 16/1	25	
4	Write a program to MST using krushkal's algorithm.		23-01-20	23/1	15	
5	Write a program to implement SSSP Dijikstra's algorithm.		30-01-20			
6	Write a program to implement travelling salesman problem		06-02-20			
7	Write a program to implement N-Queen's problem		13-02-20			
8	Write a program to implement DFS on connected graph.		20-02-20			
9	Write a program to implement BFS on connected graph.		27-02-20			

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Faculty in charge

HoD

CCOEW/CE / 19-20

Date: 09 / 12 / 2019

LESSON & TEACHING PLAN for SYSTEM SOFTWARE

Department of Computer Engineering

Faculty Name: Prof. Abhilasha T. Borkar

Year : 2019-20 | Sem:- VI th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
				Skill Development (9 Dec to 13 Dec)						
2	16/12/19-21/12/19	1	6	Components of system software Evolution of system software Language translators,Machine Structure Machine Structure Assembly Language instructions Assemblers	1) Plan to show them some graphics icon of system softwares and make them to identify it and allow them to write something about it. 2) introducing concept on ppts and on black board	Systems Programming (John Donovan) Ch 01 pg no 1-14, Ch 02 pg no 21,35, 43, Ch 03 pg no. 60-77	LCD ,Projector and chalk board, ppt on componenets of system software by john donvan	21/12/19 23/12/19 24/12		
3	23/12/19-27/12/19	1	6	Design of two pass assembler Single Pass assembler Data structures used for design of assembler Symbol Table management Design and Implementation of two pass assembler Tutorial	1) Plan to to design structure of assembler by student on black board by giving them instruction with explanantion from other student		LCD ,Projector and chalk board ,ppt on assesmblers by john donvan	26/12 27/12 30/12 31/12	Assignment 1	
4	30/12/19-4/1/20	2	5	Handling constants, literals, labels and Procedures One pass assembler design Cross Assembler,Macro language Macro processor,Macro instructions Features of macro facility	1)Plan to Revise the concept of C languange in which Macros was used. Student allow to use macros in program by their own			1/1/20 2/1/20 3/1 4/1 9/1 10/1		

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopics	Activity/ Teaching Aid	Reference & Chapter no. Page no.edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
5	06/1/20-10/1/20	2	5	Features of macro facility Implementation Problems Tutorial (Problems) Basic Loader functions	1) Plan to show them loading procedure by the loader in animated way	Systems Programming (John Donovan) pg no 60-77	LCD ,Projector and chalk board and animated video of shaun micheal stone on memory management		13/1 14/1 15/1 16/1	
6	12/1/20-18/1/20	3	6	Loader schemes,Compiler and go" Loaders general Loader scheme absolute loaders,subroutine linkages,relocating loaders direct linking loaders Overlays Tutorial	2) plan to show concept of memory management in animated video			Assm no 2	27/1 28/1 29/1 30/1	
Ananaya Festival (20 Jan-24 Jan)										
7	27/1/20-1/2/20	3	5	Dynamic Binders Design of an absolute Loaders Design of a Direct – Linking loaders Numericals based on loaders	2)Solving numercials in tutorial lecture	Systems Programming (John Donovan) pg no 111-136	LCD ,Projector and chalk board and PPTs on compiler by john donvan		1/2 3/2	
8	3/2/20-7/2/20	4	6	Basic Compiler Function Compiler Phases Lexical Analysis – NFA and DFA Intermediate code generation –three address code intermediate code forms Top down v/s bottom up parsing Tutorial	3) Plan to revise the concept of theory of computation and giving them task of design of NFA and DFA	Systems Programming (John Donovan) pg no 111-136			5/2 7/2	
Sessional -1 (10 Feb-15 feb)										

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Bo… Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
10	17/2/20-21/2/20	4	6	Semantic Analysis Syntax Directed Translation Syntax Directed Translation LEX YACC Interpreters	understand the concept by real time example	Systems Programming (John Donovan) pg no 152-178	LCD ,Projector and chalk board and PPTs on compiler by john donvan	15/2 17/2 18/2		
11	24/2/20-29/2/20	5	5	Unix Device Drivers Basic device driver operation Implementation with Line printer Comparison unix Vs Windows (TuTorial) Implementation with Line printer	understanding the concept by device drivers by real time car example showing them differents Parts of car and consider as a device		LCD ,Projector and chalk board and PPTs on device driver by john donvan	24/2 25/2 27/2		
12	2/3/20-7/3/20	5	6	Comparison unix Vs Windows (TuTorial) Device Programming Installation and Incorporation of driver routines Basic device driver operation Basic device driver operation (Tutorial)	plan to give activity as a seminar to understand the concept by giving real time example for each device driver	Systems Programming (John Donovan) pg no 265,279		28/2 29/2 2/3 3/3 4/3 5/3 6/3		
13	9/3/20-13/3/20	6	5	Case study of Intel®64 and IA-32 Processors	case study will perform as a group activity			7/3 12/3		
14	23/3/20-31/3/20	6	5	Case study of Intel®64 and IA-32 Processors	case study will perform as a group activity	Unix Device drivers by George Pajani	LCD ,Projector and computer system	13/3 14/3 15/3 16/3 31/3		
16	Sessional -2 (4 Apr-9 Apr)									

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LESSON & TEACHING PLAN
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR
COMPUTER ENGINEERING

Faculty Name: Prof. Sharayu J Deote | **Subject: DBMS** | **Third Year(2019-20)** | **Sem:-VI CE**

Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no, Page no	Activity	ICT Tools	Completion Date	Assignment Date	AC's remark
1	23 Dec-27 Dec	6	1	**UNIT I: Introduction to Database Systems** Database Systems: Significance and advantages, Types of Databases, the DBMS Environment Limitations of File processing system,	1. Abraham Henry F. Korth and S. Sudarshan, 5th Edition, McGraw Database System Concepts 5th Edition, McGraw		PPTS Chalk Board & PPTS Mobile Whatapp	27/12		
2	30 Dec-04 Jan	6		DBMS Architecture, Functions of DBMS, Data Abstraction, Data Independence,	Hill (SIE), 2013. pg no. 1 to 28 ,chno 1	1.Drawing competition 2.Make group of 6 to 5 students ,give copy of xerox of achitecture to	ON INTERNET	04/01	01 06/01	10/1/20
3				Formal relational query languages: Relational Algebra, Tuple Relational calculus, Domain Relational Calculus.	ch no 5 ,pg no 163 to 198 from same book	prepare comparative table for symbols used in 3.Practice Query examples	PPTS Chalk Board & PPTS Mobile Whatapp also			
4	6-Jan to 10-Jan	6		**UNIT II: Relational Database Manipulation** Introduction to SQL: SQL Data Definition, Basic Structure of SQL Queries Set Operations, Null values, Aggregate	Desai Bipin, Introduction to Database System Galgotia Publications, 2003	4 .Activity to Design tables relavant to application and , Define structure of table by also mention primary key ,Null values integrity constraints,sql datatypes		26/12		

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			II	Intermediate SQL: Join Expressions, Views, Integrity,Constraints, SQL Data types and Schemas, Authorization	Ex. From both books & net & university papers	5. practice query	PPT	30/01			
5	13-Jan to 18-Jan	6		Advanced SQL: Dynamic SQL and Embedded SQLPL/SQL Functions and Procedures.QUEL: data definition, data manipulation, embedded data manipulationQBE: Basic data retrieval,	Inter net		Chalk board. Mobile	3			Shilpa 6/2/20
20-Jan - To -24-Jan				**Anannya Cultural Festival**							
6	27Jan - 01 FEB	6		**UNIT III: Data Models and Relational Database Design** Evolution of data model ,Entity relationship model Development of ER Diagrams, Extended Entity Relationship modelRelational model: Logical View of Data, Keys,	pg no 201 to 302 from korth ,Ch no 6 & 7& bipin desai	6. Design of ER diagram	PPT Chalk board Mobile	01/03			Shilpa 6/2/20
7	3 Feb- 7 Feb	6		Integrity Rules, Relational set operators, Data Dictionary and System Catalog, Indexes, Rules Codd's Relational Database			"				
Sessional -I 10 Feb 2019 to 14 Feb-2019											
8	17 Feb-21 Feb	6	III	Normalization of Database Tables: Need and Significance, the normal forms - 1NF, 2NF, 3NF, BCNF, 4NF, 5NF, normalization & database design,renormalization.	pg no 201 to 302 from korth ,Ch no 6 & 7& bipin desai	7.Activity observe fault in datdabe design and find solution					

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	Mar			distributed commitment and recovery, security and protection in DDBMS, homogenous and heterogeneous systems	Korth				
Internal Practical 27 Mar to 31 Mar									
Sessional -II 4-April To 9 April -2019									

Subject Teacher

AC, CE Dept

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CCOEW/ Department of CE/ME/ETC./ 2019-20
Date: 16 /12 /2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande | **Subject: Functional English** | **Year (2019-20)** | **Sem:-VI**

WEEK No.	Week	No.Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no, Page no	Completion Date	Assignment Date	HOD's remark	Principal
1	16-21 Dec 19	1	2	***English for Competitive Exams and interview Technique*** **: IPA,Word Building,Synonyms,Antonyms,Analogies**	Quick Learning objectiveGeneral English, Functional Eng.For Tech.Stu. Himalaya Pub.(pg no. 57-86)	23/12 24/12			
2	23- 27 Dec 19	2	1 &2	Give One word for, Phrases, Idioms and Proverbs	Quick Learning objectiveGeneral English,Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.41,47,93,103)	25/12 30/12			
3	30-4 Jan 2020	1	1	***Functional Grammar*** **: Active Passive, Narration**	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.2-26)	1/6/7/13 15/1/20	15/1/20		
4	6-10 Jan 2020	1	1	Functional Grammar : Common Errors	Quick Learning objectiveGeneral English,Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.21,38)	20, 21, 22 27/1/20			
5	13-18 Jan 2020	1	1	Functional Grammar : Common Errors	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.108-110,113-129)	28/1			
6	20-24 Jan 2020	Anannya 2020							
7	27-1 Feb 2020	2	3	Functional Grammar: Transformation of Sentences	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.132-139)	28/1/20 29/1			
8	3-7 Feb 2020	2	3	Formal Correspondence (A): Business Letters(Copmplaint,Notices,Circulars,Memos)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.111-112)	29/1	02. 06/2		

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9	10-14 Feb 2020	Sessional I (10 Feb- 14 Feb2020)							
11	24-29 Feb 2020	2	4	Formal Correspondence (A): Business Letters(Copmplaint,Notices,Circulars,Memos)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.pg no.111-112,145-178)	31/2/20		1 Task 4/2	
12	2-7 March2020	2	4	Writing Resume, Interview Technique,E-mail etiquettes		17/2 18/2			
13	9-13 March 2020	2	4	Formal Correspondence (B): Technical Report writing	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.180-207)	24/2 25/2	A.3 11/3		
14	16-21 March 2020	2	4	Formal Correspondence (B): Technical Report writing		26/2			
15	23-27 March 2020	2	4	Analytical comprehension: (fictional ,non-fictional unseen text)	Analytical comprehension,Functional Eng.For Tech.Stu. Himalaya Pub (pg no.144-178)	2/3 3/3			
16	30-31 March 2020	2	4	Features of Technical and Scientific writing	Features of Technical and Scientific writing,Functional Eng.For Tech.Stu. Himalaya Pub (pg no.179-215)	4/3 9/3 11/3			
		Sessional 2 (4th April - 9th April)							

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CCOEW/CE /19-20 Date: 10 / 12 / 2019

LESSON & TEACHING PLAN for WCMC

Department of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Session: (201 -) | Sem:- Eight

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOT's sign
1	16/12/19-21/12/19	2	V	MOBILE NETWORKS: Issues & challenges-		Theodore S. Rappaport- Wireless Communication Principals & Practice Prentice Hall		19/12 20/12		Suruchi
2	23/12/19-27/12/19	2		Security issues,Authentication in Mobile application,				26/12 27/12		
3	30/12/19-4/1/20	2		privacy issues				2/1 3/1		
4	6/1/20-10/1/20	2		power management				9/1, 10/1		Suruchi
5	13/1/19-18/1/19	2		Energy awareness computing				16/1 6/2		
6	20/1/19-24/1/19			**Ananya 2k20**						
7	27/1/20-1/2/20	2	V	Mobile IP& Adhoc Network						
8	3/2/20-7/2/20	2		VOIP application						
9	10/2/20-14/2/20	2		**Sessional I**						
10	15/2/20-21/2/20	2		PROTOCOLS & TOOLS: Wireless Application protocol-WAP						

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
7	20/1/2020 to 24/1/2020			Ananya Cultural Program						
8	27/1/2020 to 1/2/2020	4	2	SDMA-FDMA-TDMA-CDMA: Cellular wireless networks, Wireless LAN-IEEE 802.11 standards: Architecture ,services. Tutorial		Mobile Communication- Jochen Schiller, Adison Wesley, 2000 Pg_No 449-464	PPT	27/1 28/1 29/1 30/1		
9	3/2/2020 to 7/2/2020	3		MANET: Wifi& Wimax, Wireless local loop, routing,HIPERLAN, Bluetooth. Tutorial	Activity 2.3:		PPT	31/1 1/2 3/2		
10	10/02/20-14/02/20			Sessional I						
11	17/2/2020 to 20/2/2020	3	3	MOBILE NETWORKS: Sensor Networks, Peer to Peer networks, mobile routing protocols:-	Activity 3.1:	Wireless Communication & Networks-W. Stallings, Prentice Hall.	https://nptel.ac.in/courses/106105160/10	4/2 5/2		
12	24/2/2020 to 29/2/2020	4		DSR,AODV, reactive routing- Location Aided routing-	Activity 3.2:			24/2 25/2		
13	2/3/2020 to 7/3/2020	4		Mobility models- Entity based-group mobility- Random ways point mobility model.	Activity 3.3:		PPT	26/2 28/2 29/2		
14	9/3/2020 to 13/3/2020	4	4	MOBILENETWORKS LAYER: Mobile IP, dynamic host configuration protocols, Adhoc Networks.Tutorial	Activity 4.1:	Mobile Communication- Jochen Schiller, Adison Wesley, 2000 Pg_No 304-366	PPT	2/3 3/3,4/3		
15	16/3/2020 to 21/3/2020	4		MOBILE TRANSPORT LAYER: Traditional TCP, Indirect TCP, Snooping TCP, Mobile -TCP, Transaction oriented TCP.Tutorial	Activity 4.2:		PPT	9/3 11/3		
16	23/3/2020 to 26/3/2020	3		Practice and Preparation on university Question Paper						
15	4/04/20- 09/04/20			Sessional II						

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vidya S. Raut | Subject:Wireless Communication & Mobile Computing | Department: Computer Engineering | SEM : 8thSemCE(2019-20)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC's sign
1	16/12/2019 to 21/12/2019	4	1	**WIRELESS COOMUNICATION:** Introduction to Wireless communication, Radio Frequencies,Objectives. Tutorial.		Theodore S. Rappaport- Wireless Communication Principals & Practice Prentice Hall Pg_No 1-93	PPT NPTEL Video lect	16, 17 21, 22 23, 24/12	Tutori 21/12	
2	23/12/2019 to 27/12/2019	2		The cellular Concept, System design & fundamentals, Frequency reuse,	Activity 1.1:		PPT NPTEL lect	23/12 24/12		
3	30/12/2019 to 4/1/2020	4		Channel Assignment & handoff strategies. Tutorial.	Activity 1.2		PPT NPTEL Video lect.	30/12	Tutorial 4/1/20	
4	6/1/2020 to 10/1/2020	3		Adjacent Channel interference, cell splitting, Sectoring. Tutorial .			PPT. Youtube Video lect	6/1/20 7/1/20 8/1/20		
5	13/1/2020 to 18/1/2020	3	2	INTRODUCTION TO GSM: Architecture, Radio Subsystem, Channel types, Gsm frames Structure ,Tutorial	Activity 2.1 : Activity 2.2 :	Theodore S. Rappaport- Wireless Communication Principals & Practice Prentice Hall Pg_No 551-563		13/1/20 14/1/20 15/1/20 18/1/20	Assign 15/1/20. Tutorial 18/1/20	

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CCOEW/CE / 2019-2020

Date: 06/12/2019

LESSON & TEACHING PLAN for Expert System Design

Department of Computer Engineering

Faculty Name: Prof. SHAILESH SAHU | Year : 2019-2020 | Sem:- 8th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	16/12 to 21-12	5	1	Expert system & AI, Expert System characteristics.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems"	online videos.	21/12/2019	-	Shailesh
2	23/12 to 27/12	4	1	Expert System Structure,Heuristic Reasoning,User Interface. Tutorial.	(1)			27/12/2019	Tutorial	
3	30/12 to 4/1	5	2	Logic and Resolution: propositional logic, first order predicate logic.	(2)	"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems"		4/1/20	Assig (1)	
4	6/1 to 10/1	4		causal logic form of logic, resolution and propositional logic.Tutorial.				10/1/20	Tutorial	Shailesh
5	13/1 to 16/1	4	3	Production Rules and Inference: Knowledge representation in a production system.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems"		16/1/20	-	
6	27/1 to 1/2	5		Inference in a production system,Pattern recognition,production rules.				1/2/20	-	
7	3/2 to 7/2	5	3	Production rules as a representation formalism, Tutorial				7/2/20	7/2/20	
8	10/2 to 15/2	Sessional - 1								

(1) ABL: crypt-arithmetic problem is given to understand the concept heuristic reasoning.

(2) ABL: Logic using real life examples. (How a physician detects a particular problem)

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AC Shailesh

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
9	17/2 to 20/2	3	4	Frames and Inheritance: Semantic nets, Frames and single inheritance: tree like frame taxonomies, File Merging :Sorting of large files on disks.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "	videos	18/02/20	—	
10	24/2 to 29/2	5	4	Exceptions inheritance and attribute facts, Frames and multiple inheritance, frames as a representation formalism.Tutorial						
11	2/3 to 7/3	5	5	Reasoning with Uncertainty: Production rules,inference and uncertainty, probability theory: the probability function,conditional probabilities.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "				
12	9/3 to 13/3	5	5	Bayes' theorem, application in rule based expert system, The subjective Baysian method, the certainty factor model, Dempster-Shafer theory, Network model. Tutorial.						
13	16/3 to 21	5	6	History of artificial neural networks,Neural information processing, hybrid intelligence, basic concept of neural network.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems "				
14	23/3 to 27/3	6	6	biological neural system, single layer perceptrons, multilayer perceptrons, supervised and unsupervised learning, neural network learning.Tutorial.						
16	4/4 to 9/4	Sessional - 2								

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Date: 14/06/2019

CCOEW/CE/ 19-20

LESSON & TEACHING PLAN

Faculty Name: Prof. Prasanna Lohe | **Subject: MMT** | **EVEN SEM (2019-20)** | **Sem:- 8th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	16 DEC TO 21 DEC	5	1	Introduction : Definition of multimedia - Multimedia Basics - Where to use Multimedia Multimedia Elements –Multimedia Applications Multimedia Systems Architecture: Multimedia Workstation Architecture - High resolution Graphic displays -	Grp Discussion/Google Serach/ You tube Videos/Assignments	Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI	Chalk and Board/PPT/Videos	30/12		
2	30 DEC TO 03 JAN	5	1	Multimedia Architecture Based on interface bus - Network architecture for Multimedia systems. Evolving technologies For Multimedia Systems: Hyper Speech - HDTV and UDTV - 3D Technologies and Holography -Virtual Reality - Video conferencing.	Assignment/ Problem Solving practice	Fundamental of Multimedia - Ze-Nian Li & M. S. Drew ,PHI	Chalk and Board/PPT/Videos/Live Execution	04/01		
3	06 JAN TO 10 JAN	5	2	Input Devices - Output Hardware - Communication Devices , Basic Software Tools : Text Editing - Word Processing - OCR Software - Painting and Drawing Tools - 3D Modeling and Animation Tools - Image Editing - Sound Editing –Animation – Video - Digital Movie tools - Movie Editors - Compressing Movie Files, Making instant Multimedia : Linking Multimedia Object – office suites- word processors – spread sheets – databases – presentation tools	Presentation/ grp Discussion/Live examples	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH	Chalk and Board/PPT/Videos	07/01		
4	13 JAN TO 17 JAN	5	2	Multimedia authoring tools: Types of authoring tools – card and page based authoring tools – Icon based authoring tools – Time based authoring tools.	Presentation/ grp Discussion/Live examples	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH	Chalk and Board/PPT/Videos	05/02		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	27 JAN TO 31 JAN	5	3	Text: About Fonts and Faces - Using Text in Multimedia - Designing with Text - Hypermedia and Hypertext - The Power of Hypertext - Using Hypertext - Hypermedia Structures - Hypertext Tools,	Videos/Assignmment/Problem Solving Practice	Multimedia Systems Design - Prabhat k.Andleigh, Kiran Thakra	Chalk and Board/PPT/Videos			
6	3 FEB TO 7FEB	5	3	Images: Making Still Images – Bitmaps - 1 bit images - 8-bit gray level images - 8-bit color images- Dithering- 24 bit color images - Vector Drawing - Vector-Drawn Objects vs. Bitmaps- 3-D Drawing and Rendering – Color - Understanding Natural Light and Color - Computerized Color - Color Palettes - Color Look-up table.	Gooogle Search data collection/ Aniamted Videos/Assignments	Multimedia Systems Design - Prabhat k.Andleigh, Kiran Thakra	Chalk and Board/PPT/Videos/Live Execution			
7				**Sessional I**						
8		6	3	Sound : The Power of Sound - Digital Audio - Making Digital Audio Files - MIDI Audio - MIDI vs. Digital Audio - Multimedia System Sounds - Adding Sound to Your Multimedia Project - Audio Recording - Keeping Track of Your Sounds - Audio CDs - Sound for Your Mobile - Sound for the Internet. Animation: the Power of Motion- Principles of Animation - Animation by Computer –Animation Techniques. Video: Using Video- How Video Works and Is Displayed - Analog Video - Digital Video, Displays - Digital Video Containers – Codec - Video Format Converters - Obtaining Video Clips - Shooting and Editing Video.	Gooogle Search data collection/ Aniamted Videos/Assignments	Multimedia Systems Design - Prabhat k.Andleigh, Kiran Thakra	Chalk and Board/PPT/Videos/Live Execution			
9		5	4	Data Compression: Need for Data compression - General Data compression Scheme - Compression standards - Non-lossy compression for images - Lossy compression for Photographs and video - Hardware Vs Software Compression	Gooogle Search data collection/ Aniamted Videos/Assignments/Roll odel/ Chart Preparation	Multimedia Systems - John F.Koegel Buford	Chalk and Board/PPT/Videos/Live Execution			

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book Chapter no. P... no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10		4	4	Compression Schemes and standards:(Only Concepts of) Binary image compression, Color, Gray Scale image compression - JPEG, video image compression - Multimedia Standards for Video - Requirements for Full-motion Video Compression – MPEG - Audio compression - Fractal compression - advantages / disadvantages.	Live Example/Gooogle Search data collection/ Aniamted Videos/Assignments/Roll odel/ Chart Preparation	Multimedia Systems - John F.Koegel Buford	Chalk and Board/PPT/Videos/Live Execution			
11		6	5	Data and File Format Standards: Popular File Formats - RTF, RIFF, GIF, PNG, TIFF, MIDI, JPEG, JFIF, AVI,WAV, BMP,WMF, MIX, MPEG standards - TWAIN. Multimedia Databases,Storage and Retrieval - Database Management systems - Database Organization and Transaction management for multimedia systems.	Gooogle Search data collection/ Aniamted Videos/Assignments/Roll odel/ Chart Preparation	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH	Chalk and Board/PPT/Videos/Live Execution			
12		5	5	Multimedia Skills: The Team - Project Manager - Multimedia Designer - Interface Designer – Writer - Video Specialist - Audio Specialist - Multimedia Programmer - Producer of Multimedia for the Web	Gooogle Search data collection/ Aniamted Videos/Assignments/Roll odel/ Chart Preparation	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH	Chalk and Board/PPT/Videos/Live Execution			
13		5	6	Designing and Producing: Designing - Designing the Structure - Designing the User Interface – Producing – Tracking – Copyrights - Virtual reality designing and modeling (VRML). :	Gooogle Search data collection/ Aniamted Videos/Assignments/Roll odel/ Chart Preparation	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH	Chalk and Board/PPT/Videos/Live Execution			
14		5	6	The Internet and Multimedia: The Bandwidth Bottleneck - Internet Services – MIME Types - Multimedia on the Web - Web Page Makers and Site Builders - Plug-ins and Delivery Vehicles. Designing for the World Wide Web	Gooogle Search data collection/ Aniamted Videos/Assignments/Roll odel/ Chart Preparation	Multimedia: Making It Work By Tay Vaughan Eighth Edition, TMH	Chalk and Board/PPT/Videos/Live Execution			

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CCOEW/CE / 2019-2020 Date: 06/12/2019

LESSON & TEACHING PLAN for Unix and Shell Programming

Department of Computer Engineering

Faculty Name: Prof. SHAILESH SAHU Year : 2019-2020 Sem:- 8th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	16/12 to 21-12	5	1	General Overview of the system: System Structure (Architecture of UNIX Systems). User Perspective (The file system, Processing Environment.)	(1)	The Design of Unix Operating System by- M.J Bach (4-36)		21/12/2019		
2	23/12 to 27/12	4		(Building Block Primitives),Operating systems services.Assumption about hardware (Interrupts and Exceptions, Processor Execution Levels, Memory			ppt	27/12/2019		
3	30/12 to 4/1	5		Introduction to kernel: Architecture of the UNIX Operating System (Block Diagram of the system Kernel). Tutorial.	(2)			03/01/2020	Tutorial 03/01/2020	
4	6/1 to 10/1	4	2	Introduction to system Concepts (An Overview of the File Subsystem,Processes-State and Transitions). Kernel data structures,System administration		The Design of Unix Operating System by- M.J Bach (38-56)		10/01		
5	13/1 to 16/1	4		The Buffer cache: Buffer headers, structure of Buffer pool, Scenarios for retrival of a buffer.(Scenarios no. 1 and Scenarios no. 2).	(3)			16/01		

ABL : (1) students have used ls -command with option to understand file structure.
(2) using c code, students have understand the block diagram of system kernel.
(3) PPT

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
6	27/1 to 1/2	5		Scenarios for retrival of a buffer.(Scenarios no. 3 and Scenarios no. 4 & 5). Reading and writing disk blocks. Tutorial.	(4)		~~11/1/20~~	~~28/01~~	27/1/2020	
7	3/2 to 7/2	5	3	Internal representation of files: Inodes (Definition, Accessing Inodes, Releasing Inodes).Structure of regular files.		The Design of Unix Operating System by- M.J Bach(67-77)	~~7/2/20~~	~~6~~ 8/2		
8	10/2 to 15/2	**Sessional - 1**								
9	17/2 to 20/2	3	3	Directories.conventions of a path name of nodes (Algo-namei). Super block.Inode assignment to a new file (Algo-ialloc). Allocation of a disk block, other file types. Tutorial.		The Design of Unix Operating System by- M.J Bach(77-88)	ppt	15/02	15/02/2020 Tutorial	
10	24/2 to 29/2	5	4	System calls of the file systems: Open, Read,Write. File and record coding seek.close, file creation, creation of special fileschange directory, root, mode and owner.		The Design of Unix Operating System by- M.J Beach (91-140)	Give examples in C	~~25~~ 2/2		
11	2/3 to 7/3	5		stat, fstat, pipes, dup mounting and unmounting file system, File system abstraction and maintenance. Tutorial.			Give examples in C.	~~28~~ 2/2	~~28~~ 2/2 Tutorial	
12	9/3 to 13/3	5		The structure of the Processes:Process states and transitions Layout. Layout of System memory, Contex of the process, saving the contex of the process.		The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)	—	7/3	(2)	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
13	16/3 to 21	5	5	Manipulation of the process address space, sleep. Process control- Creation. Signal, termination, awaiting process termination, Invoking other programms. UID of a process, changing size of process,The shell, the system boot and the INIT process. Tutorial.		The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)				
14	23/3 to 27/3	6	6	Interprocess Communication: Process tracing, System V IPC.Network communications, sockets. Managing the system and network connection in any LINUX version: Monitoring resources, Mastering Time.		Ubuntu Linux, Toolbox by Christopher Nequs.				
15	30/3 to 31/3	2	6	Managing boot process, Controlling startup and Run levels. Configuring networks from the GUI, Managing Network Interface cards, Connections: using wireless connections, Troubleshooting network problems. Tutorial.						
16	4/4 to 9/4	Sessional - 2								

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Faculty in Charge

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CCOEW/CE / 19-20

Date: 17 / 12 / 2019

LESSON & TEACHING PLAN for Distributed System & Grid Computing

Department of Computer Engineering

Faculty Name: Prof. Sakshi A.Khamankar

Year : 2019-20

Sem:- VIIIth

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	Ac's sign
1	16 Dec-21 Dec	6	1	Motivation and goals Overview and advantages of DS Characteristics-Absence of global clock State (Local and Global) Possibility of large network delays	Plan to divide class into at least two group and announce a competition for most points on a practice test. Let them study a topic together and then give that quiz, after each round,let them study the next topic before quizzing again	"Advance Concepts in Operating System"Singhal and Shivratri, Chap 4,71-80	LCD, Projector and chalk board and question on operating and some concept of desktop operating system	16|12|19 17|12|19 18|12|19 19|12|19 19|12|19		
2	23 Dec- 27 Dec	4	1	Scalability, security security Resource management Time and Global States-Introduction Clocks,Events and process states Tutorial				20|12|19 20|12|19 23|12|19 24|12|19		
3	30 Dec- 04 Jan	6	2	Synchronizing Physical clocks Logical time,Logical clocks 3 Distributed debugging Tutorial				30|12|19 31|12|19 1|1|2020 2|1|2020 3|1|2020	1st assignment	
4	6 Jan-10 Jan	5	3	Coordination Agreement Distributed mutual exclusion Token based algorithm Lamports Algorithm	for understanding the concept of clock synchronization ...forming the group of 5 student and setting the clock and dictacting the message to each group and let them synchronise with that message	"Distributed Operating system" M.A.Ansari chap 6	LCD, Projector and chalk board and ppt on assembler by john donvan	6|1|2020 7|1|2020 8|1|2020 9|1|2020 10|1|2020		
5	13 Jan- 18 Jan	4	3	Ricart Aggrwala Algorithm Suzuki Kasamis Algorithm Raymond Tree based and Singhal Introduction Distributed file systems				13|1|2020 14|1|2020 15|1|2020 16|1|2020		

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Academic Coordinator

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	Ac's sign
				Assignment-1 on Festival 20 Jan 24 Jan						
7	27 Jan-1 Feb	6	3	Design issues Distributed Shared Memory Distributed Shared Memory Introduction to middleware technology Introduction to middleware technology	for understanding the concept of shared memory board consider as a shared memory and student allow to write anything on it like message ,note etc.	Distributed system consept and design forth edition by George Coulouris. Chap 8,18	LCD, Projector and PPts on CS 550 distributed file system	27|1|2020 28|1|2020 29|1|2020 30|1|2020 31|1|2020		
8	03 Feb-07 Feb	5	3	Design issues Implementation issues CORBA Case Study CORBA Case Study Types Tutorial	CORBA is middelware and mostly used technology so giving the student middelware as a topic and study it and do anylysis why corba is popular		LCD, Projector and chalk board and ppts on CORBA selfprepared http://linux.die.net/man/2/read	1|2|2020 3|2|2020 4|2|2020 5|2|2020 5|2|2020	-guest lecture	
				10 feb-14 feb Sessional-1						
10	17Feb- 21 Feb	4	3	CORBA RMI-Remote Method Invocation RMI-Remote Method Invocation CORBA services CORBA services Tutorial	CORBA is middelware and mostly used technology so giving the student middelware as a topic and study it and do anylysis why corba is popular		LCD, Projector and chalk board and ppts on CORBA selfprepared http://linux.die.net/man/2/read	4|2|2020 (E) 24|2|2020 24|2|2020 25|2|2020		
11	25 Feb-29Feb	6	4	Introduction Grid Computing Grid Computing models Protocols Types of Grid Desktop Grid Clusters & Cluster Grids HPC Grid	understanding the concept of grid computing by real time example of solar plant	"Grid Computing" Ahmar Abbas PDF from Internet	LCD, Projector and chalk board and PPTS on grid computing	26|2|2020 27|2|2020 28|2|2020 29|2|2020		WFH

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	Ac's sign
12	2 Mar- 6 Mar	6	5	Data Grids Message Passing Interface (MPI) Standard Procedures, Tutorial				2/3/2020 3/3/2020 4/3/2020 5/3/2020 6/3/2020		
13	9 Mar-13 Mar	4		Arguments ,Data Types Processes Platform independence Error Handling Point-to-Point Communication Collective Communication Error Handling ,Platform independence	for message passing student will chat on whats app..one to one there will be message passing one to all there will be collective communication...i	John.Rittinghouse "Cloud Computing " PDF from Internet	LCD, Projector and chalk board and PPTS on cloud computing	7/3/2020 9/3/2020 11/3/2020 12/3/2020	Send material via mail as no online classes due to lockdown	
14	16 Mar-21 Mar	6		Process Technologies Introduction of cloud computing Characteristics,Benefits of cloud Cloud models Service models : IaaS, PaaS, SaaS Deployment models						
15	23 Mar-31Mar	6	6	Public cloud Private cloud Hybrid cloud Community cloud Cloud Architecture Tutorial	plan to give them case study on cloud					
4 Apr- 9 Apr Sessional-2										

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN NAGPUR

Lab Practicals Plan Sem. VIII

Date: / /

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. S.Khamankar	Subject: DSGC		for	Department:CE	Section: 8'th Sem

		Batch B1(Tue)			Batch B2(Mon)			Batch B3(Wed)			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	AC's Remark
print	possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	fill
	Introduction	17/12/19	17/12/19		16/12/19	16/12/19		18/12/19	18/12/19		
1	Write a program for implementing client server communication model	24/12/19	24/12/19	4	23/12/19	23/12/19	4	1/1/2020	1/1/2020	8	
2	WAP to simulate the functionality of Lamport logical clock in C	31/12/19	31/12/19	3	30/12/19	30/12/19	5	8/1/2020	8/1/2020		
3	WAP to implement vector clock in C	7/1/2020	7/1/2020		6/1/2020	6/1/2020		15/1/2020	15/1/2020		
4	Simulation of Distributed mutual exclusion in C	14/1/2020	14/1/2020	8	13/1/2020	13/1/2020	10	29/1/2020	29/1/2020	12	
5	Implement JAVA RMI mechanism for accessing method of remote system.	28/1/2020	28/1/2020	5	27/1/2020	27/1/2020	9	5/2/2020	5/2/2020	9	WFH
6	Implementation of CORBA (Common object Request Broker Architecture) Mechanism	4/2/2020	4/2/2020	4	3/2/2020	3/2/2020	8	12/2/2020	12/2/2020	7	

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7	To study Grid sim toolkit for modeling and simulating grid computing environment.	11/2/2020			########			19/2/2020			
8	To study Installation & Configuration of Hadoop	18/2/2020			17/2/2020			26/2/2020			
9	Write steps to create services deployment and usage over cloud.	25/2/2020			24/2/2020			4/3/2020			
10	Squid installation and configuration	2/3/2020			3/3/2020			11/3/2020			

Subject Teacher

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CCOEW/CE/ 19-20

Date: 17/06/2019

LESSON & TEACHING PLAN for Theory of Computation

Department of Computer Engineering

Faculty Name: Prof. Shailesh C. Sahu | **Year : 2019-20** | **Sem:- 5th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC sign
Project Oriented Traing Program (17-21June PHP/Python)										
1	24 June - 29 June	5	1	Introduction to Theory of automatan Strings, Alphabet, language operations. Finite state machine definitions. Tutorial.	[1][2][3] [4]	Introduction to Automata Theory. Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 35 to45	Students stationeries, laptop	29/06		
2	01 July - 06 July	5	1	Finite automation model acceptance of strings and anguage. Non deterministic finite automation, Deterministic finite utomation. Tutorial.	[5][6]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 45 to 55	Students stationeries, card containing symbols	06/07		
3	08 July - 12 July	5	1	Equivalence between NFA and DFA. Conversion of NFA into DFA, NFA with e moves and e-closure with examples. Ttorial.	[7]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 55 to 60	Students stationeries	16/07		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC sign
4	15 July - 20 July	5	1	Conversion of NFA with e moves to without e-moves Minimization of FSM, Equivalence between two FSM's Moore & Mealy mchines. Tutorial.	[8][9]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 60 to 77	Students stationeries	26/07		
5	22 July - 26 July	5	2	Introduction to Regular languages and Regular expression Regular set, Regular Expression and Regular languages smaple examples. Regular expression examples. Equivalence and Inter Conversion between Regular Expression and FA. Tutorial	[10]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 79 to 105	Projector	29/07	29/07/19 ~~28/~~ (1)	
	Sessional I (29 July - 03 Aug)									
6	05 Aug - 09 Aug	6	2	Identity rules and manipulation of Regular Expression Interconversion of RE and FA. Tutorial: Interconversion of RE and FA. Closure Properities of Regular set and Chomsky Hierarchy. Conversion from RE to RG and Right Linear to Left Linear Conversion from Regular Grammar to FA, conversion for Left to Right linear Grammar Pumping Lemma for Regular Grammar. Tutorial.	[11]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No.105 to 154	Projector	23/08	(2) 22/08	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC sign
7	13 Aug-17Aug	5	3	Introduction to CFG and derivation Trees. Left Derivation Tree and Right Derivation Tree Chomsky normal form, Tutorial.	[12][13]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 157 to 175	Projector			
8	19 Aug-24Aug	4	3	Greibach normal Push Down Automaton Definition and model Equivalnace of CFL and PDA, Inter Conversion. GNF.Closure Properties of CFL, Pumping lemma for CFL, Introduction to CFL and DPDA. Tutorial.	[14][15] [16]	Introduction to Automata Theory, Languages, and,Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 175 to 200, Page No. 200 to 235.	Projector	13/09		
9	26 Aug - 31 Aug	5	4	Turing Machine: Definition, Model of TM Design of TM, Universal Turing Machine. Tutorial: TM. Computable function, Recursive enumerable language Types of TM's (proofs not required). Linear bounded automata and Context sensitive language, Counter machine.	[17]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 234 to 380	Projector	18/09		
10	02 Sept-07 Sept	5	5	Decidability and Undecidability of problems,Properties of recursive & recursively enumerable languages. Tutorial.	[18]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 287 to 337	Projector	19/09		
11	09 Sept-13 Sept	5	5	Halting problems and Undecidability of language Post correspondence problem, Ackerman function, and Church's hypothesis.Tutorial.		Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 287 to 337	Projector	19/09		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	AC sign
12	16 Sept-21 Sept	4	6	Recursive Function: Basic functions and operations on them, Bounded Minimalization, Primitive recursive function, μ-recursive function, Primitive recursive predicates, Mod and Div functions, Unbounded Minimization, Equivalence of Turing Computable function and μ-recursive function. Tutorial	**Guest Lecturer**			20/09/18	3 20/9/19	
13	**Sessional II (24 Sept- 29 Sept)**									

[1]-Creating set: Instruct students to arrange the stationeries in a group.

[2]-Identifying objects: Instruct students to close your eyes and try to identify different objects.

[3]-Programming: Instruct students to write a C programming statement and compile it.

[4]-Programming: Instruct students to write a C program to understand the finite and infinite languages generated by FA.

[5]-Demonstration- demonstration of state transition diagram. (Passing objects through a chain of students.)

[6]-Demonstration- demonstration of DFA and NFA. (Passing objects through a chain of students.)

[7]-Demonstration- demonstration of e-move. (Passing objects through a chain of students.)

[8]-Game- a game based on treasure hunt, FSM minimization.

[9]- Game- students are divided into group and based on current problem definition has to perform minimization activity.

[10]- ppt and videos

[11]- ppt and videos

[12]- ppt and videos

[13]- ppt and videos

[14]- ppt and videos

[15]- ppt and videos

[16]- ppt and videos

[17]- ppt and videos

[18]- ppt and videos

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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CCOEW/CE/ 19-20

Date: 14/06/2019

LESSON & TEACHING PLAN

Faculty Name: Prof. Prasanna Lohe						Subject: CAO		ODD SEM (2019-20)		Sem:- 5th
WEEK No.	**Week**	**No. Of Lect.**	**Unit No.**	**Exact Topic Name & Subtopic**	**Activity/ Teaching Aid**	**Refrence Book - Chapter no. Page no,edition. No**	**ICT tools**	**Completion Date**	**Assignment/Tutorial Date**	**HOD's sign**
1	17 June - 21 June	5	1	Project Oriented Training				24/06/2019		
2	24 June - 29 June	5	1	Computer Evaluation and Arithmetic:A Brief History of computers, Designing for Performance, Von Neumann Architecture, Computer Components,interconnection Structures.	Animated Videos. PPTS, You tube videos Link	Computer Organization and Architecture by W. Stallings	PPT, Videos on generations. Machine from each generation	25/06 to 28/06		
3	1 July - 6 July	5	1	Bus Interconnection, Scalar Data Types, Fixed and Floating point numbers, Signed numbers, Integer Arithmetic, 2's Complement method for multiplication.	Binary Addition/Subtraction Using 2's Complement, Practical Assignments	Computer Organization and Architecture by W. Stallings	PPT	01/07 to 08/07		
4	8 July - 12 July	5	1	Booths Algorithm, Hardware Implementation, Division, Restoring and Non Restoring algorithms, Floating point representations, IEEE standards, Floating point arithmetic.	Solving Problems in groups/Pairs,, Assignments	Computer Organization by Carl Hamacher Chapter 06 : pg no. 367	PPT,Video on Floating point number representation	08/07 to 15/07		
5	15 July - 20 July	5	2	**Processor Design:**Machine Instruction characteristics, types of operands, types of operations, Addressing, Instruction formats, Processor organization, Register Organization	Animated Videos. PPTS, You tube videos Link	Computer Organization by Carl Hamacher	Blackboard & Chalk PPT,Vedios	15/07 to 25/07	Assignment 1.	
6	22 July - 26 July	5	2	Instruction cycles, Instruction pipelining, ALU – Combinational ALUs and Sequential ALUs, RISC Architecture.	Fetch-Decode-Execute, Solving problems in groups	Computer Organization by Carl Hamacher	Blackboard & Chalk PPT,Videos	26/07 to 29/07		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	29 July-03 Aug			Sessional I						
8	05 Aug- 09Aug	6	3	Single Bus Organization, Control Unit Operations: Instruction sequencing, Micro operations and Register Transfer.	Exersise in class, Animated Videos	Computer Organization by Carl Hamacher pg no : 411-445	Blackboard & Chalk PPT	05/08		
9	13 Aug -16 Aug	5	3	Hardwired Control : Design methods – State table and classical method, Design Examples - Multiplier CU,Micro-programmed Control	Case Study of designing CU	Computer Organization by Carl Hamacher pg no : 411-445	Blackboard & Chalk PPT	07/08		
10	19 Aug -23 Aug	4	4	Microinstructions and micro- program sequencing Characteristics of memory systems, Internal and External Memory, Types of memories.	Google Search on the topic and submission group wise	Computer Organization by Carl Hamacher pg no : 291 to pg no 313	Blackboard & Chalk PPT,	08/08		
11	03 Sep-08 Sep	6	4	High-Speed Memories: Cache Memory, Organization and Mapping Techniques, Virtual Memory,Segmentation, Paging, Address Translation	Google Search on the topic and submission group wise	Computer Organization by Carl Hamacher pg no : 314-344	Blackboard & Chalk PPT,NPTEL references	13/08		
12	26 Aug -31 Aug	5	5	Secondary Storage. Input/Output Systems, Programmed I/O, Interrupt Driven I/O, I/O channels, Direct Memory Access (DMA), Buses and standard Interfaces.	hands on Implementation of Hard disk and Storage.	Computer Organization by Carl Hamacher pg no : 203	NPTEL references	14/08 14/08		
13	03Sep-07 Sep	5	5	Working mechanisms of Peripherals: Keyboard, Mouse, Scanners, Video Displays, Touch Screen panel, Dot Matrix, Desk-jet and Laser Printers.	Case Study of working mechanism of printer,scanner,mouse,Keyboard	Computer Organization by Carl Hamacher pg no :553	NPTEL references	21/08 09/09		
14	09 Sep-13Sep	5	6	Superscalar Processors, Multiple Processor Organizations, Symmetric Multiprocessors, Clusters, Non-uniform Memory Access , Vector Computations, Bus allocation Schemes.	Case Study on working mechanism	Computer Organization by Carl Hamacher pg no : 617-656	NPTEL references	10/09 11/09		

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
15	16 Sep -21 Sep	5	6	RISC: Instruction execution characteristics, use of large register file, compiler based register optimization, RISC architecture, pipelining. RISC vs. CISC	Case Study on working mechanism	Computer Organization by Carl Hamacher pg no : 617-656	Chalk and Board	19/09		
16	24 Sep-30 Sep	Sessional II								

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Academic year

2018-19

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CCOEW/CE / 18-19

Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin Gorantiwar | Subject: Applied Maths III | SEM III C.E. (2019-20) | Sem:- ODD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	24 June-29 June	6	IV	MATRICES Linear Transformations, Orthogonal Transformations,Linear dependence of vectors,Characteristics equation, Eigen values and Eigen vectors,Reduction to Diagonal form	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 2.41 to 2.59	Using PPT Diagonalisation of matrix	~~29-6-19~~ 29-6-19		
2	01 July-06 July	6	IV	Cayley Hamilton Theorem [without proof],Reduction of Quadratic form to Canonical form by Orthogonal transformation, Sylvester's theorem [without proof],	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 2.70 to 2.72	Steps to find out Caley Hamilton Theorem using animated video	05.07.19		
3	08 July-13 July	5	IV	Solution of Second Order Linear Differential Equation with Constant Coefficients by Matrix method. Largest Eigen value and Eigen vector by Iteration method.	Solving example	Engineering Mathematics Shobhane & Tembhekar 2.73 to 2.81	———	05.07.19	05.07.19	

Faculty in Charge

HOD

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
4	15 July-20 July	6	II	FOURIER TRANSFORM : Definition and Properties (excluding FFT), Fourier Integral Theorem, Relation with Laplace Transform,Applications of Fourier Transform to Solve Integral Equation.	Solving example	Higher Engineering Mathematics B.S. Grewal 836 to 851	Application of fourier transform using Video	10.07.19		
5	22 July-27 July	5	III	Z-TRANSFORM Definition, Convergence of Z-transform and Properties, Inverse Z-transform by Partial Fraction Method	Solving example	Higher Engineering Mathematics B.S. Grewal 866 to 885	PPT used for Z transform and inverse formulae	20.07.19	20.07.19	
9	29 July-03 Aug	Sessional I								
6	05 Aug-10 Aug	5	III	Power Series Expansion, Convolution of two sequences,Solution of Difference Equations with Constant Coefficients by Z-transform method.	Solving example	Higher Engineering Mathematics B.S. Grewal 866 to 885	Steps to find out inverse Z transform using animated video	26.07.19		
7	12 Aug-17 Aug	5	V	THEORY OF PROBABILITY Axioms of Probability , Baye's Rule,Random variables,Discrete Random variables,Continuous random variables, Probability function,Distribution function,Joint distributions	Solving example	Engineering Mathematics Shobhane & Tembhekar 11.1 to 11.38	PPT used for Random variable and Using video explaining Bay's rule	13.08.19	07.08.19	
8	19 Aug-24 Aug	5	V/VI	Independent Random Variables,Conditional Distributions MATHEMATICAL EXPECTATION & STOCHASTIC PROCESS Mathematical Expectation , Variance,Standard Deviation	Solving example	Engineering Mathematics Shobhane & Tembhekar 11.8 to 11.38	———	21.08.19		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	26 Aug-31 Aug	6	VI	Moments,Moment generating function,Covariance & Correlation Coefficient,Conditional expectation,Stochastic process,Bernoulli and Poisson process	Solving example	Engineering Mathematics Shobhane & Tembhekar 12.1 to 12.25	PPT used for mathematical exceptation and Using video explaining mean and variance	04.09.19		
11	02 Sept-07 Sept	6	I	Laplace Transform Introduction , Defination, L- T of some elementary function Change of scale property,Properties of L-T, Shifting property,L-T of derivative, L-T of integrals,	Solving example	Engineering Mathematics Shobhane & Tembhekar 4.1 to 4.7	PPT	11.09.19		
12	09 Sept-14 Sept	5	I	multiplication by t,Division by t,Inverse L-T, Method of partial fraction,Convolution theorem(Statement Only),(statement only)	Solving example	Engineering Mathematics Shobhane & Tembhekar 4.8 to 4.25	PPT/video used for properties	18.09.19		
13	16 Sept-21 Sept	6	I	L.T.Inverse Using properties and standard result finding ,Unit Step Function ,L-T of Periodic Functions ,Application of L.T to solve differential equations ,Integral equation Simultaneous Differential Equations,Integro-Differential Equations.	Solving example	Engineering Mathematics Shobhane & Tembhekar 4.33 to 4.55	PPT/video used for finding inverse by convolution theorem	27.09.19		
12	23 Sept-28 Sept			**Sessional II**						

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CCOEW/CE / 19-20

Date: / / 2019

LESSON & TEACHING PLAN for Concpets In Computrer Engineering

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar

Year : 2019-20

Sem:- 3'rd

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	24 June-29 june	6	1	Introduction of Subject	collect info about more devices & MCQ		Images of i/p and o/p devices shown	25/6/19		
				Description of computer input units		VR-Chpt3-pg-31-35		26/6/19		
				other input methods				27/6/19		
				computer output units,types of printer,plotter		VR-Chpt3-pg-36	Images of printers shown	28/6/19		
						VR-Chpt3-pg-39-		29/6/19		
2	1 July-6 July	5		types of printer,plotter	demo given in CC lab with the help of Gupta Sir.	VR-Chpt3-pg-42		1/7/19		
				Memory cell, memory organization,		VR-Chpt4-pg-46-51	Related topics pdf & ppt will show	2/7/19		
				read only memory,Serial access memory		VR-Chpt4-pg-51		3/7/19		
								4/7/19		
3	8 July-14 July	5		physical devices used to construct memory i)semiconductor flip-flop		VR-Chpt4-pg-55-61	Images of disk,CD-rom devices shown	5/7/19		
				Magnetic Hard Disk ,floppy disk		VR-Chpt4-pg-		6/7/19		
				compact disk read only memory		VR-Chpt4-pg-67	Related topics pdf & ppt will show	8/7/19		
				magnetic tape drives,DVD		VR-Chpt4-pg-		9/7/19		
4	15 July-20July	5	2	First generation computers	to collect information about it.	VR-Chpt12-pg-250	Images of each generation of computer and its details shown on ppt.	10/7/19	1st Assign	
				second generation computers,		VR-Chpt12-pg-251		15/7/19		
				third generation computers,		VR-Chpt12-pg-252		16/7/19		
				fourth & fifth generation ,computers		VR-Chpt12-pg-253		18/7/19		
				Moore's Law		VR-Chpt12-pg-256		18/7/19		
5	22July-26July	4		classification of computers	MCQ's	VR-Chpt12-pg-258-260	Related topics pdf & ppt will show	19/7/19		
				parallel computers distributed computer system		VR-Chpt12-pg-261		19/7/19		
								22/7/19		
								23/7/19		
6	29 July-3 Aug			Sessional-I						

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Nagpur-441116

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
7	5Aug-9 Aug	5		Structure of instructions	Task given to write instruction	VR-Chpt5-pg-78	Related topics pdf & ppt will show	24/7/19		
				Description of processor		VR-Chpt5-pg-82		25/7/19		
				a machine language program		VR-Chpt5-pg-86		26/7/19		
								5/8/19		
			3	Algorithms, Flowchart		VR-Chpt1-pg-2-8		5/8/19		
8	13 Aug-17 aug	5	3	Why programming languages,	to collect information about it.	VR-pg-170 EB-333		6/8/19		
				Generation of Programming		EB-Chpt13-pg-336		7/8/19		
				2'nd generation of language		EB-Chpt13-pg-337		8/8/19		
				3'rd generation of language		EB-Chpt13-pg-338		13/8/19		
				4'th & 5'th generation of language		EB-Chpt13-pg-339		14/8/19	2nd Assignt	
9	19 Aug-23 Aug	4		Characteristics of good programming	Task given to write program	EB-Chpt13-pg-340		16/8/19		
				Factors affecting the choice of languages		EB-Chpt13-pg-347		17/8/19		
				developing a program		EB-Chpt13-pg-349-352		19/8/19		
				Introduction HTML, Python		Internet		19/8/19		
10	26 Aug-31 Aug	5	4	troduction, Types of Computer Softwa	MCQ's	EB-Chpt10-pg-214		20/8/19		
				System Management Programs		EB-Chpt10-pg-215		21/8/19		
				System Development Programs		EB-Chpt10-pg-217,219		22/8/19		
				Unique Application Programs		EB-Chpt10-pg-224		23/8/19		
11	2 Sept-7 Sept	5		Problem Solving		EB-Chpt10-pg-228	Related topics pdf & ppt & Videos will show	24/8/19		
				tructuring the logic, using the Compute		EB-Chpt10-pg-228		2/9/19		
12	9Sept-13Sept	5	5	Need of operating system	collect info about more devices & MCQ	VR-Chpt10-pg-196		3/9/19		
				types of operating systems		EB-Chpt11-pg-254 & VR-Chpt10-pg-		4/9/19		
				history & Open source software		open source technology by K.Vadhera pg-1,9,12,13,16,20,36,107 and internet		5/9/19		
				Free software & Free software license				7/9/19		
				Proprietary Vs. Open source Licensing				9/9/19		
				FOSS, GNU project.				10/9/19	3rd Assignt	
13	16 Sept-21 Sept	5	6	Representation of Image & moving		VR-Chpt16-pg-372		11/9/19		
				Compression of video data, MPEG		VR-Chpt16-pg-374		17/9/19		
				Acquiring and storing audio signals,		VR-Chpt16-pg-377		18/9/19		
				Compression of audio signals,		VR-Chpt16-pg-378		19/9/19		
				Audio signalprocessing & speech		VR-Chpt16-pg-378		20/9/19		
14	25 Sept-29 Sept							21/9/19		
								24/9/19		
								24/9/19		

Sessional II

Faculty Incharge

Faculty in Charge

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Sanstha's
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Hingna, Nagpur-441110.

Academic Co_ordinator

HOD

Maharshi Karve Stree Shikshan Samstha's
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
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Date: / /

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. S.Khamankar		Subject: C-Lab- I			for	Department:CE		Section: 3'rd Sem			
		Batch B1(Thur)			Batch B2(Wed)			Batch B3(Fri)			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	AC's Remark
print	possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	fill
1	To demonstrate HTML with different tags										
2	To demonstrate HTML with setting color	27/6/19	27/6/19	10	26/6/19	26/6/19	6	28/6/19	28/6/19	10	
3	To demonstrate HTML by Ordered List	4/7/2019	4/7/19	12	3/7/2019	3/7/19	8	5/7/2019	5/7/19	12	
4	To demonstrate HTML by Tables	11/7/2019	11/7/19	10	10/7/2019	10/7/19	10	12/7/2019	12/7/19	11	
5	To demonstrate HTML by image as background	18/7/19	18/7/19	12	17/7/19	17/7/19	12	19/7/19	19/7/19	9	
6	To demonstrate HTML by hyperlinks	25/7/19	25/7/19	7	24/7/2019	24/7/19	14	26/7/19	26/7/19	14	
7	Write a program to demonstrate "Website Login Form" in HTML	8/8/2019	8/8/19	10	31/9/19	7/8/19	13	2/8/2019	16/8/19	13	
8	Create a Web page having Main Frame along with three Sub Frames(Windows)	22/8/19	22/8/19	13	7/8/2019	14/8/19	12	9/8/2019	5/9/19	18	
9	Develop a web page to play video file using <Embed> Tag.	29/8/19	5/9/19	12	14/8/2019	21/8/19	11	16/8/19	5/9/19	17	
10	To DemonstrateHTML document by using CSS	5/9/2019	19/9/19	15	21/8/2019	4/9/19	14	23/8/19	20/9/19	19	

Subject -Teacher

Acedmic Co_ordinator

Dr. Milind Khanapurkar
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Kirtangi, Nagpur-441110

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
6	23 July - 28 July	6	2	code converters, characteristics of display devices, standard configuration of gates as SI/MSI/LSI circuits. Tutorial.		Modern Digital Electronics by R P Jain, chap-6,256-268	web	23 July to 26 July		
7				**Sessional I (06 Aug-10Aug)**						
8	6 Aug-11 Aug	5	3	K- Map, simplification of sum of products and products of sum. solution to problems using K-Map.		Modern Digital Electronics by R P Jain, chap-5,173-192	web	27 July. 11 Aug.		
9	13 Aug-17Aug	4	3	conversion of Decoders / MUX into one another Use of MUX as function generator. Tutorial.		Modern Digital Electronics by R P Jain, chap-6,231-238	web	13 Aug to 19 Aug.		
10	19 Aug-23Aug	5	4	Introduction to Flip Flop, Loathers, concept of clock. Tutorial.		Modern Digital Electronics by R P Jain, chap-7,279-280	web	20 Aug. to 27 Aug		
11	26 Aug-31 Aug	5	4	Memories organization with Flip Flop as basic cell, Ram, RCM,		Modern Digital Electronics by R P Jain, chap-7,281-299	web	28 Aug to 31 Aug.		
12	2 sep- 7 Sept	5	5	Excitation tables & introduction to sequential circuits. Counters-Synchronous/Asynchronous. Different modular counters with		Modern Digital Electronics by R P Jain, chap-8,312-390	web	2 sep to 7 sep.		
13	09 Sept-13 Sept	5	6	Arithmetic Circuits – Adders, sub tractors, (Half & Full). BCD adder / sub tractor, Concept of ALU and its design.		Modern Digital Electronics by R P Jain, chap-6,246-252	web	9 sept to 13 sept		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
14	16 Sept-21 Sept	5	6	Integrated circuits version of multivibrators and their design parameters.Tutorial.		Modern Digital Electronics by R P Jain, chap-6,246-252	web	16 sept to 20 sept		
15	25 Sept-29 Sept	Sessional II (24 Sept- 29 Sept)								

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Cummins College of Engineering for Women, Nagpur

Lab Practicals Plan Sem. I

25/6/2018

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Shailesh Sahu | **Subject: Digital Electronics** | **for** | **Department: Computer Engineering** | **Sem- 3rd**

			Batch B3			Batch B2			Batch B1			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	fill
1	To verify the truth table of basic gate using IC.		26-06-18	26/06		28/6/18	27/06		27/6/18	28/06		
2	To verify the truth table of universal gate using IC.		03/7/18	03/07		19/7/18	04/07		20/7/18	05/07		
3	To verify De-morgan's first and second law.		08-07-18	10/07		08-07-18	11/7		17/8/18	12/07		
4	To study half adder and full adder circuit using logic gates and verify its truth table.		29/8/18	17/08		30/8/18	18/08		31/8/18	16/08		
5	To study half subtractor and full subtractor circuit using logic gates and verify its truth table.		29/8/18	24/08		30/8/18	25/08		09-09-18	23/09		
6	To Study the JK Flio-Flop.		09-09-18	23/08		09-09-18	30/8		14/9/18	25/08		
7	To verify BCD to 7 segment display.		09-09-18	23/08		09-09-18	30/8		14/9/18	25/08		

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HoD

8	To study SISO shift registor performing right shift.		09-12-18	1/09		10-09-18	02/09		21/9/18	30/09		
9	To verify Multiplexer (MUX) and Demultiplexer (DMUX) circuits.		09-12-18	1/09		10-09-18	02/09		21/9/18	30/09		
10	To verify operation of decimal to BCD priority encoder.		19/3/18	09/09		10-09-18	08/09		21/9/18	21/09		

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Page 2

HoD

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CCOEW/CE / 19-20

Date: 14 /06 / 2019

LESSON & TEACHING PLAN for ICN

Departmnet of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Session: (2019-20) | Sem:- Third

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC's sign
1	24/6/19-29/6/19	6	I	Training and Introduction about Subject.Data and Signal,Bandwidth,Data Communication – Components, Data Representation, Data Flow,Networks –Network Criteria, Physical Structure (Types of Connection, Physical Topology),Categories of Network (LAN, WAN, MAN),Interconnection of Network		Data Communications and Networking by Behrouz A Forouzan Pg. no.3 ,29-50,89 Computer Network By Andrew S. Tanenbaum Pg No. 3-237	PPT's from (slideshare.com)	25/6/19 26/6/19 27/6/19 28/6/19 29/6/19		
2	1/7/19 - 6/7/19	6		,Internet, Protocols and Standards,Network Model – Layered Tasks,The OSI Reference Model, Introduction to TCP/IP Protocol Suite,Addressing – Physical, Logical,Specific Port Addressing ,Specific Addressing	A. 1.1		Video lecture and Chalk Board	2/7/19 3/7/19 4/7/19 5/7/19 9/7/19 9/7/19		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC's sign
3	8/7/19 - 12/7/19	4	II	Physical Layer: Physical Layer Objectives,Transmission Media – Wired and Wireless,Switching – Circuit switching Network		Data Communications and Networking by Behrouz A Forouzan Pg. no.101-129,141-155	PPT, Chalk,Board	10|7|19 18|7|19 18|7|19 19|7|19 ~~20|7|19~~	A-1 11|7|19	
4	15/7/19 - 20/7/19	6		Datagram Network,Virtual Circuit Network, ~~Tutorial~~.Digital Transmission,Digital to Digital Conversion,Analog to Digital Conversion,Analog Transmission,	A. 1·2		PPT, Chalk,Board	20|7|19 23|7|19 23|7|19 24|7|19 20|7|19		
5	22/7/19 - 26/7/19	5	II / III	Analog ConversionData Link Layer "Design Issues of Data Link Layer,Framing," Logical Link Control Protocols for Noiseless Channel Protocols for Noisy Channel Stop-and-Wait ARQ,		Data Communications and Networking by Behrouz A Forouzan Pg. no 307,312,318,324,332	Video lecture and Chalk Board	25|7|19 29|7|19 05|8|19 6|8|19		
6	29/7/19 - 3/8/19	**Sessional I**								
7	5/8/19- 9/08/19	5	III	Selective Repeat ARQ,Multiple Access Control,Random Access Protocols (ALOHA, CSMA, CSMA/CD, CSMA/CA) IEEE Standard 802 for LAN – 802.3,802.4, 802.5		370,373,377, 395	ppt,chalk board	07|8|19 13|8|19 14|8|19 19|8|19		

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Principal

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC's sign
8	12/08/19-17/08/19	4	IV	"Network Layer Need for Network Layer, Internet as a Datagram Network" Logical Addressing Classfull Addressing in IPv4	A·1·3	Data Communications and Networking by Behrouz A Forouzan Pg. No. 549	ppt,chalk board	20/8/19 21/8/19 22/8/19 24/8/19	A-II 14/8/19	Jailey
9	19/08/19-23/08/19	5		Routing – Routing Algorithm Distance Vector Routing, Link State Routing Congestion and Congestion Control Open Loop, Closed Loop			Video lecture and Chalk Board	26/8/19 27/8/19		Jailey
							ppt,chalk board	3/9/19		
10	26/08/19-31/08/19	6	V	Transport Layer Objectives of Transport Layer Process to Process Delivery Addressing IANA Ranges, Socket Addresses.		Data Communications and Networking by Behrouz A Forouzan Pg. No. 549 TCP/IP Protocol Suite by Behrouz A Forouzan	Video lecture and Chalk Board	4/9/19 5/9/19 7/9/19 10/9/19		Jailey
11	2/09/19-7/09/19	5		Multiplexing and De – multiplexing.Reliable and Unreliable Services Quality of Service Traffic Shaping policies	A·1·4		PPT,Video lecture and Chalk Board	10/9/19 11/9/19 17/9/19		Jailey
				User Support Layers – Session, Presentation, Application				18/9/19		

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Nagpur-441110

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC's sign
12	9/09/19-13/09/19	4	VI	Session Layer – Introduction Presentation Layer – Data Compression Network Security and Privacy – Introduction to Cryptography(Symmetric and Asymmetric),	A·1·5	Data Communications and Networking by Behrouz A Forouzan Pg. No. 799	PPT,Video lecture and Chalk Board	19/9/19 21/9/19 21/9/19	A-3 12/9/19	
13	16/09/19-~~24~~/09/19	5		Digital Signature Authentication (Message and Entity) Application Layer – Domain Name System, Electronic Mail, Architecture of Browser	A·1·6			23/9/19 23/9/19 24/9/19		
14	~~30~~/9/19 - ~~27~~/9/19	6		**Sessional II**						

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/CE/ 19-20

Date: 14/06/2019

LESSON & TEACHING PLAN

Faculty Name: Prof. Prasanna Lohe						Subject: PMDS		ODD SEM (2019-20)		Sem:- 3th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17 June - 21 June	5	1	Taxonomy and history of Computer Programming Program Execution basics. Problem solving and Programming strategies, programming paradigms. Algorithm and flowchart design, Principles of Structured programming C Language Fundamentals	Grp Discussion/Google Serach/ You tube Videos/Assignments	Let us C by Yashwant kanetkar, Chapter no1 Page no. 1to 11	Chalk and Board/PPT/Videos	24/06 to 03/07		
2	24 June - 29 June	5	1	Loop control statements, Arrays One dimensional & Two-dimensional array.Functions – Definition, call, prototypes, block structure, external variables, Recursion	Assignment/ Problem Solving practice	Let us C by Yashwant kanetkar, Chapter no3 Page no. 97 to 121	Chalk and Board/PPT/Videos/Live Execution	06/07 to 15/07		
3	1 July - 6 July	5	2	Storage Classes – extern declaration and information hiding. Pointers – Address and indirection operators, Pointer arithmetic – Functions and pointers	Presentation/ grp Discussion/Live examples	Let us C by Yashwant kanetkar, Chapter no6 Page no. 223 to 233	Chalk and Board/PPT/Videos	16/07 to 17/07		
4	8 July - 12 July	5	2	Arrays and pointers –Strings and pointers –Multi-dimensional arrays and pointers – Pointer arrays – Pointers to functions	Presentation/ grp Discussion/Live examples	Let us C by Yashwant kanetkar, Chapter no10 Page no. 363 to 383	Chalk and Board/PPT/Videos	18/07 to 25/07	Assignment no. 01	
5	15 July - 20 July	5	3	Dynamic memory management. Structures – Variables, Accessing members, Assignment and nesting – Pointers to Structures – Structures and functions – Structures and arrays – Structures containing pointers – Unions	Videos/Assignmment/Problem Solving Practice	Let us C by Yashwant kanetkar, Chapter no10 Page no. 363to 383	Chalk and Board/PPT/Videos	28/07 to 02/08.		
6	22 July - 26 July	5	3	Introduction to data structures, Searching and sorting techniques- Linear search, Binary search, Indexed search,	Gooogle Search data collection/ Aniamted Videos/Assignments	Fundamentals of Data Structure by horowitz and Sahani Chapter No 1	Chalk and Board/PPT/Videos/Live Execution	09/08 to 13/08		

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	29 July-03 Aug			**Sessional I**						
8	05 Aug- 09Aug	6	3	Insertion sort, selection sort, Bubble Sort, radix Sort, Merge Sort, Hashing, Collision resolution policies.	Gooogle Search data collection/ Aniamted Videos/Assignments	Fundamentals of Data Structure by horowitz and Sahani chapter no 7	Chalk and Board/PPT/Videos/Live Execution	14/08 to 14/08		
9	13 Aug -16 Aug	5	4	Stack and queue - Array representation of stacks, Queues and Dequeue, Circular queue, Polish notation, Implementation of stack using arrays,	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Fundamentals of Data Structure by horowitz and Sahani Chapter No 2	Chalk and Board/PPT/Videos/Live Execution	16/08 to 16/08		
10	19 Aug -23 Aug	4	4	Application of stack & queue: Conversion from Infix to Postfix ,Evaluation of postfix expressions, Priority QueuesLinked list- Singly linked list: Operations on linked list, Searching, Insertion, Deletion	Live Example/Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Fundamentals of Data Structure by horowitz and Sahani Chapter No 3	Chalk and Board/PPT/Videos/Live Execution	16/08 to 23/08		
11	03 Sep-08 Sep	6	5	Linked list- Singly linked list: Operations on linked list, Searching, Insertion, Deletion, Doubly linked list,	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Fundamentals of Data Structure by horowitz and Sahani chapter No 4	Chalk and Board/PPT/Videos/Live Execution	23/08 to 25/08		
12	26 Aug -31 Aug	5	5	Operations on doubly linked list, Sorted Linked List, circular list, , sparse matrix storage using linked list	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Fundamentals of Data Structure by horowitz and Sahani chapter No 4	Chalk and Board/PPT/Videos/Live Execution	26/08 to 26/08		
13	03Sep-07 Sep	5	6	Trees- Definition, Binary Trees, Binary tree Traversal, Pre-order , In order , Post Order ,Expression trees ,	Gooogle Search data collection/ Aniamted Videos/Assignments/Roll	Fundamentals of Data Structure by horowitz and Sahani chapter no	Chalk and Board/PPT/Videos/Live Execution	26/08 to 03/09		
14	09 Sep-13Sep	5	6	Balanced Binary Trees . Different tree traversal algorithms, Graphs - Mathematical Properties, Degree, Connectedness, Directed Graphs, Directed Acyclic Graph,	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Fundamentals of Data Structure by horowitz and Sahani Chapter No 5	Chalk and Board/PPT/Videos/Live Execution	04/09 to 09/09		
15	16 Sep -21 Sep	5	6	Representation of Graphs and Applications: Adjacency matrix, path matrix, Linked Representation of a graph, Graph traversal - DFS & BFS, Shortest path,	Gooogle Search data collection/ Aniamted Videos/Assignments/Rollodel/ Chart Preparation	Fundamentals of Data Structure by horowitz and Sahani chapter no 6	Chalk and Board/PPT/Videos/Live Execution	14/09 to 23/09.		
16	24 Sep-30 Sep			**Sessional II**						

Dr. Milind Khanapurkar
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Maharshi Karve Stree Shikshan Sanstha's
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Hingna, Nagpur-441110.

Lab Practicals Plan Sem. III

Date: 24/ 06 / 19

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Mr. Prasanna Lohe	Subject:PMDS	for	Department: Computer Engineering

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	print	fill	fill	print	fill	fill	print	fill	fill	fill
P1	Write a C Program to perform various Arithmetic, Logical, Relational Operations on two Operands.	26-06-19	26/06		28-06-19	28/06		27-06-19	27/06		
P2	Write a menu driven program using Switch statement.	03-07-19	03/07		05-07-19	05/07		04-07-19	04/07		
P3	Write a C program to illustrate the use of Loop control structure.	10-07-19	10/07		12-07-19	19/07		11-07-19	11/07		
P4	Write a C program to Illustrate the Concept of Different Function calls	17-07-19	17/07		19-07-19	26/07		18-07-19	18/07		
P5	Write a C program to Illustrate the Concept of String	24-07-19	24/07		26-07-19	02/08		25-07-19	25/07		
P6	Write a C program to Illustrate the Concept of Structure	31-07-19	07/08		02-08-19	02/08		01-08-19	19/09		
P7	Write a program to search thegiven element using 1. Linear Search 2. binary Search	07-08-19	14/08		09-08-19	09/08		08-08-19	19/09		
P8	Write a program to sort the given element using 1. Selection Sort 2. Bubble Sort	14-08-19	21/08		16-08-19	09/08		22-08-19	19/09		
P9	To write and execute a program for implementation of Queues using arrays.	21-08-19	04/09		23-08-19	13/09		29-08-19	26/09		

Faculty in charge

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HoD

P10	To write and execute a program in C for performing PUSH and POP operations on STACK	28-08-19	11/09		30-08-19	2/9/09		05-09-19	2/9/09.		

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Lab Practicals Plan Sem. V

Date: 12 / 06 / 19

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Suruchi Kitey | Subject: CG | for | Department: Computer Engineering

Pi	Name of experiment	Batch B1 Planned Date	Batch B1 Perform Date	Batch B1 No. of Viva done	Batch B2 Planned Date	Batch B2 Perform Date	Batch B2 No. of Viva done	Batch B3 Planned Date	Batch B3 Perform Date	Batch B3 No. of Viva done	AC's Remark
P1	To study the various Computer Graphics functions.	25/6/19	25/6/19		24/6/19	25/6/19		26/6/19	26/6/19		
P2	Write a program to generate a line using DDA Algorithm.	07-02-2019	2/7/19		07-01-2019	1/7/19		07-03-2019	3/7/19		
P3	Write a program to generate a line using generalized Bresenham's algorithm.	07-09-2019	9/7/19		07-08-2019	8/7/19		07-10-2019	10/7/19		
P4	Write a program to generate a circle in clockwise direction with center at origin and radius R.	16/7/19	16/7/19		15/7/19	15/7/19		17/7/19	17/7/19		
P5	To study 2-D Graphics Primitives and Write a program to draw a HUT using Graphics Primitives.	23/7/19	23/7/19		22/7/19	22/7/19		24/7/19	24/7/19		
P6	Write a program to fill the polygon using simple seed fill algorithm	08-06-2019	13/8		08-05-2019	5/8		08-07-2019	7/8		
P7	Write a menu driven program for 2-D transformations(translation,scaling).	20/8/19	20/8		19/8/19	13/8		21/8/19	14/8		
P8	Write a program to implement a 2-D Rotation.	27/8/19	27/8		26/8/19	19/8		28/8/19	21/8		
P9	Write a program to implement mid-point subdivision line clipping algorithm.	09-10-2019	03/9		09-09-2019	26/8		09-11-2019	4/9		

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Nagpur-441110

Faculty In charge

AC

CCOEW/CE / 19-20

Date: 14 /06 / 2019

LESSON & TEACHING PLAN for CG

Departmnet of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Session: (2019-20) | Sem:- Fifth

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	24/6/19-29/6/19	6	I	Geometry and line generation: points, lines, planes, pixels,frames buffers, types of display devices		Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill. Pg.No. 6,7,8,66,70,74,75,79,88,142-151	Chalk board	25/6/19, 26/6/19, 27/6/19, 29/6/19, 28/6/19		
2	1/7/19 - 6/7/19	6		DDA and Bresenham's algorithms for line generation	A-1-2		Chalk board	1/7/19, 2,3,4, 5,5/7/19		
3	8/7/19 - 12/7/19	4		Bresenham's algorithm for circle,ellips generation, aliasing , anti-aliasing and its techniques			Chalk board	8, 9, 10, 16, 18/7/19	A-1 11/7/19	
4	15/7/19 - 20/7/19	6	II	Graphics primitives: Display files, algorithms for polygon generation	A-1-1	Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill.	Chalk board,PPT	18/7/19, 19/7/19, 14/7/19, 20/7/19		
5	22/7/19 - 26/7/19	5		polygon filling algorithms: Simple ordered Edge list, Edge fill, Fence fill, Edge flag,Seed fill, Scan line Seed fill, NDC	A-1-6		Chalk board	22/7/19, 23/7/19, 23/7/19, 24/7/19, 25/7/19, 29/7/19		
6	29/7/19 - 3/8/19	Sessional I								
7	5/8/19-9/08/19	5	II	operations on segments,data structures for segments and display files,window		Pg. No. 3,137-142,115,118,121,,126,131,133,		5/8/19		

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Faculty in Charge **AC**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
8	12/08/19-17/08/19	4	III	viewport,viewing transformations,Cohen-Sutherland		Procedural elements for computer graphics by David F. Rogers Pg.No. 63,175,177,181,187,192,196,253	Chalk board/PPT	7|8|19 8|8|19 20|9|19	A-2 13|8	
9	19/08/19-23/08/19	5	III IV	Cyrus-Beck Algorithm,Mid-point subdivision,Polygon clipping(Sutherland-Hodgeman),scaling,Translation	A·1·4	Computer Graphics by Udit Agrawal	Chalk, board Chalk, board	9|8|19 13|8|19 14|8|19 16|8|19 14|8|19 20|8|19		
10	26/08/19-31/08/19	6	IV	Rotation,Reflection,Shearing,Rotation about arbitary axis,parallel, perspective and isometric projections	A·1·3		Chalk, board	21|8|19 22|8|19 22|8|19 23|8|19		
11	2/09/19-7/09/19	5	V	Painter's, Z-buffer,Warnock's, Back-face Removal algorithm,Methods of interpolation,Bezier and B-splines		Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill.Pg.no. 375,343,474,476,482	PPT,Videos	27|8|19 3|9|19 4|9|19		
12	9/09/19-13/09/19	4	V VI	Gouraud Shading, Phong Shading,Constant Intensity Shading, Fast Shading,Properties of light,chromaticity Diagram,RGB,YIQ				5|9|19 6|9|19		
13	16/09/19-21/09/19	5	VI	CMY, HSK,color models & their conversion,color selection & applications,Design of Animation sequences, animation Function,animation language,Key-Frame System, motion Specification	A·1·5	Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill. Pg.No. 609,611,623,624,627,645	PPT,Slideshare videosVideos	9|9|19 10|9|19 17|9|19 18|9|19 19|9|19 20|9|19 21|9|19 24|9|19 25|9|19	A-3 11.9	

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Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.edition. No	ICT tools	Completion Date	Assignment/ tutorial Date	AC's sign
14	[illegible]	6		Sessional II						

Faculty in Charge

AC

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CCOEW/CE /19-20

Date: / / 2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Priyadarshini Ramteke						Subject: IEED		SEM V C.E./ETC (2019-20)		Sem:- ODD
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17 June - 21 June	WORKSHOP/ORIENTATION								
2	24 June - 29 June	5	I	Sole Proprietorship, Partnership, Corporation, Company Top and Bottom line of organzation			Projector	25/6/19 26/6/19 27/6/19 28/6/19 29/6/19		
3	1 July - 6 July	5		Economic Analysis of Business, Economic prudence in business, Economies of operations				1/7/19 2/7/19 3/7/19 4/7/19 5/7/19		
4	8 July - 13 July	4	II	Market structure: Perfect Competition, Oligopopoly, Monopolistic Competition, Monopoly				6/7/19 8/7/19 9/7/19 10/7/19		
5	15 July - 20 July	5		Business integration: Forward integration, Backward Integration, LPG Policy, Business Cycle and Optimum size of firm				11/7/19 12/7/19 15/7/19 16/7/19	A - I 12/7/19	
6	22 July - 27 July	4		Functions of Central and Commercial banks, Economies and Diseconomies of scale,				25/7/19 26/7/19 29/7/19 5/8/19 6/8/19		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	30 July - 3 Aug	Sessional I								
8	5 Aug - 10 Aug	4	III	FDI. Free Trade Vs Protection, Capital Formation, Multiplier and Accelerator effect				7/8/19 20/8/19 21/8/19 22/8/19		
9	12 Aug - 17 Aug	4		Inflation, Recession, Stagnation, PPP Models, Inclusive Growth,				9/8/19 14/8/19 16/8/19 17/8/19		Jaiay
10	19 Aug - 24 Aug	4	V	Sources of finance, term loan, venture capital, angel funding, Capital structure, Working capital, Costing. BEP,				23/8/19 24/8/19 5/9/19 6/9/19	A-II 5/9/19	
11	26 Aug - 31 Aug	3	V+VI	Network analysis, Taxation, Small Scale industries (Types, Advantages, Problems of SSIs)				5/9/19 9/9/19 10/9/19 11/9/19		
12	2 Sept - 7 Sept	4	VI	Sickness in SSI, FDI and threates to SSI, TCOs, Safeguard measures against currency fluctuation, Govt policy to SSIs, Incentives to SSI, Tax holidays			Projector	17/9/19 18/9/19 19/9/19 20/9/19		Jaiay
13	9 Sept - 14 Sept	4		Project Formulation, Market Survey and Research, Demand Forecasting				21/9/19 23/9/19	A-III	
14	16 Sept - 21 Sept	5	IV	Seminar on Unit IV				21/9/19 23/9/19		
15	24 Sept - 30 Sept	Sessional II								

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CCOEW/CE / 18-19

Date: 24/ 06/ 2019

LESSON & TEACHING PLAN

Computer Engineering Department

Faculty Name: Prof. Abhilasha Borkar					Subject: TCP/IP		SEM Fifth Sem (2018-19)		Sem:-
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
				17 June-21 June- PHP Traning						
1	24 - 29 june	6	1	Introduction to TCP/IP TCP/IP MODEL Comparison of OSI Model and TCP/IP model Networking Technologies: LANS, WANS. Networking Technologies: LANS, WANS. Tutorial	1) video will be show in which they learn how OSI work 2)Through PPTs the explaniaion of underlaying technlogies	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 1, 2-14 Chapter 2,19-40 Chapter 3, 47-80	1) OSI model animated Video ,PPts on Introduction of Internet and standard 2) OSI and TCP/IP Protocol Suit . 3) underlaying technologies for MCQ link is **http://highered.mheducation.com/sites/0073376043/student_view0/chapter_01_-_multiple_choice_quiz.html**	24/6/19 25/6/19 26/6/19 28/6/19 1/7/19 2/7/19	-	
2	1-6 July	6	1	Connecting Devices Internetworking Concepts Architectural model Internet Backbones NAP, ISP's RFC's Tutorial	1)connecting devices like router ,switch,cables, plan to show in classroom 2)plan to give details of ISPs used in our college 3) Introduce new technology for intranetwork	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 1, 2-14 Chapter 2,19-40 Chapter 3, 47-80	Physical devices router,switch, ethernet RJ- 45 and PPTS on connecting devices by behrouz foruzan	2/7/19 3/7/19 4/7/19 5/7/19 9/7/19 23/7/19		

Faculty in Charge

Dr. Milind Khanapurkar
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Academic Coordinator.

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	Ac's sign
3	8-11 July	4	1	Internet Standards. IP address classes Internet Addresses Classes,Classful Addressing,Classless Addressing	1) Plan to make LAN connections in class room and Assigning IP address	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 5,6 115-150 161-178	Laptop,ethernet-RJ 45, 1)IPV4 PPTs	15/7/19 16/7/19 17/7/19 18/7/19		
4	15-20 July	6	2	Mask and subnetting Numerical based on Masking Subnet Mask CIDR ARP and RARP Tutorial	plan to give activity to identify classes and no. of networks and no. of host based on numericals		Chalk board ,1) IPV4 PPTs	19/7/19 22/7 23/7 24/7 25/7 23/7		
5	22-29 July	5	2	ARP and RARP Internet Protocol. Routing IP Datagram ICMP IGMP.	cisco packet tracer Simulator installation and Perfroming practical based on Protocols and	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 8, 221-237 Chapter 9,245-263 Chapter 13, 375-408	Laptop, 1) ARP - ppts 2) Forwording of IP Packet-PPT , sotware cisco packet tracer	29/7 2/8/7 28/7 29/7 29/7		
30 july 3 Aug Sessional-1										
7	5 Aug- 9 Aug	5	3	Sockets and socket Programming TCP,UDP Sockets and socket Programming Routing in Internet RIP ,Routing Information Protocol Tutorial	considering student as a object and perform client server communication	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 17, 546	PPTs of socket programming	5/8/19 6/8/19 7/8/19 7/8/19 5/8/19 20/8/19		
8	12Aug- 17 Aug	4	3	BGP Introduction to Multicasting Multicast routing. Host Configuration Tutorial	configuring BGP protocol on packet tracer	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 18, 568 Chapter 19, 582 Chapter 20, 610	PPTs of BGP and chalk board	13/8 14/8 16/8 17/8 20/8/19		

Faculty in Charge

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Lab Practicals Plan Sem. V

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Date: 24/ 06 / 19

Faculty Name: Prof. Abhilasha Borkar | **Subject:TCP/IP & Internet** | for | **Department: Computer Engineering**

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Remark
print	print	print	fill	fill	print	fill	fill	print	fill	fill	fill
P1	To study TCP/IP Protocol Suit	25/6/19	25/6/19	10	24/6/19	24/6/19	08	26/6/19	26/6/19	12	
P2	Configure Star Topology using HUB	07-02-19	2/7/19	12	07-01-19	1/7/19	16	07-03-19	3/7/19	10	
P3	Configure VLAN on switch	07-09-19	9/7/19	14	07-08-19	8/7/19	14	07-10-19	10/7/19	20	
P4	Configure VLAN on switch with Trunk mode	16/7/19	16/7/19	16	15/7/19	15/7/19	12	17/7/19	17/7/19	18	
P5	To configure Router and Perform communication	23/7/19	23/7/19	18	22/7/19	22/7/19	10	24/7/19	24/7/19	16	
		[illegible]19	6/8/19	20	[illegible]19	5-8/19	10	[illegible]19	7/8/19	10	
P6	Impliment NAT	20/8/19	20/8/19	15	19/8/19	19/8/19	14	21/8/19	21/8/19	10	
P7	Impliment RIP Protocol on Router	27/8/19	27/8/19	10	26/8/19	26/8/19	11	28/8/19	28/8/19	15	
P8	Impliment OSPF Protocol on Router	09-10-19	9/10/19	05	09-09-19	9/9/19	12	09-11-19	9/11/19	16	
P9	Impliment BGP Protocol on Router	17/9/19	17/9/19	20	16/9/19	16/9/19	13	18/9/19	18/9/19	10	
P10	Configure FTP Protocol	24/9/19	24/9/19	20	23/9/19	23/9/19	14	25/9/19	25/9/19	20	

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Subject Incharge

Faculty in charge

Page 1

HoD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
9	19 Aug-23 Aug	5	4	BOOTP	Configuration of protocols on packet tarcer	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 18, 568 Chapter 19, 582 Chapter 20, 610	PPT on DHCP by behrouz foruzan cisco packet tracer, chalk board	21/8		
				DHCP				22/8		
				FTP				22/8		
				Services: Domain Name System				22/8		
				Tutorial				5/9		
10	26 Aug - 31 Aug	6	4	TFTP and Electronic Mail:	understanding concept by real time example		Gmail ,PPTs on SMTP by behrouz foruzan	26/8		
				SMTP				27/8		
				MIME				27/8		
				IMAP and POP				28/8	21-	
				Network Management				3/9	Assg.2	
				Tutorial				5/9	5/9	
11	2 Sep-7 Sep	6	5	SNMP	understanding concept by real time example	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 21,630 Chapter 23,24 TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 22, 656	PPTs on Mobile IP by Behrouz foruzan	4/9		
				Mobile IP				4/9		
				Multimedia				5/9		
				RTP				5/9		
				Tutorial				5/9		
12	9 Sep-13 Sep		5	RTCP,			PPTs on RTCP by Behrouz foruzan	9/9		
				Firewalls				10/9		
				Middleware's,				11/9		
				RPC, RMI				24/9		
13	16 Sep-23 Sep	7	6	PGP	configuring HTTP protocol ,understanding concept by real time example		PPTs on HTTP by Behrouz foruzan PPTs on RMI by Behrouz foruzan	12/9	Assg 3.	
				,SSL				13/9		
				HTTP				17/9	17/9	
				Introduction to IPv6				18/9		
				Introduction to IPv6				23/9		
				ICMPv6				24/9		
				Internet Security:IPSec				24/9		
24 Sept- 30 Sept - Sessional- II										

Faculty in Charge

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Cummins College of Engineering for Women, Nagpur

Lab Practicals Plan Seventh Semester (A.Y 2019-20) (ODD)

Date: 25/06/2019

Faculty Name: Prof. H.V.Kharpate **Subject: AMP**

			Batch B3			Batch B1				Batch B2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill	print	fill	fill	fill
1	Study of 8051 Microcontroller		2/7	2/7		4/7	4/7			5/7	5/7		
2	To write and execute 8051 assembly language program for addition of two 8 bit numbers		9/7	9/7	Shirley	11/7	11/7	Shirley		19/07	5/7		Shirley
3	To write and execute 8051 assembly language program for multiplication of two 8 bit numbers		16/07	16/7		18/07	18/7			26/7	19/7		
4	To write and execute 8051 assembly language program for division of two 8 bit numbers		23/07	23/7		25/07	18/7			9/8	2/8		
5	To write and execute 8051 assembly language program for swapping lower nibble with upper nibble of 10 8 bit numbers stored in memory		6/8	13/08	Shirley	8/8	8/8		Shirley	16/08	16/8		Shirley
6	To write and execute 8051 assembly language program to find the smallest byte out of 10 bytes stored in memory		13/08	20/8		22/08	22/8			23/08	13/9		

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7	To write and execute 8051 assembly language program to serially transfer the data to other controller using Keil software		20/08	31/9		29/08	5/9		30/08	17/9			
8	To write and execute 8051 assembly language program to toggle port 1 and port 2 using keil.		27/08	10/9	Shirley	5/9	19/9	Shirley	9-Jun	20/9		Shirley	
9	WAP to ~~interface BCD to 7 segment display using MCU 8051 IDE~~ transfer block of data (8086)		3/9	17/9		19/09	26/9		13/09	21/09			
10	WAP to demonstrate code look up table. (XLAT).		10/9	17/9			26/9		20/09	21/09.			

Shirley

H.O.D.

H. V. Kharpate

Faculty Incharge

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Maharshi Karve Stree Shikshan Samstha's

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/CE/ 19-20

Date: 13/ 06 / 2019

LESSON & TEACHING PLAN

Faculty Name: Prof. Harshwardhan Kharpate						Subject: Advance Microprocessor		ODD SEM (2018-19)		Sem:- 7th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign/ AC sign
1	17 June - 21 June 2019	5		Project Oriented Training						
2	24 June - 29 June 2019	6	1	Introduction to 32-bit processors. Historical evolution of 80286,386 & 486 processor, real & protected modes	Socratic Questioning/Picture Prompt	Intel Microprocessor by Barry Brey,Eighth edition,Page no 1-50 and Burchundi,Ray 444,505	PPT on 80286,386,486, Videos	29/6		
3	1 July - 6 July 2019	6	1	segmentation, paging mechanism & privilege mechanism & protection mechanism, pipe lining & task switching.	Pass the chalk, Fetch-Decode-Execute for pipelining	Intel Microprocessor by Barry Brey,Eighth edition,Page no 1-50	PPT, Video on Task Switching (NPTEL)	06/07		
4	8 July - 13 July 2019	4	2	Pentium features & architecture, pin description, functional description	Comparison with previous processors	Advanced Microprocessors and Peripherals by A K Ray and K M Burchundi second edition pg no : 556 and Intel Microprocessor pg no 729	PPT,Videos from bharatacharyaeducation.com	15/7		

Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	15 July - 20 July 2019	6	2	Pentium super-scalar architecture- pipelining, instruction paring rules,Pentium real mode, Pentium RISC features		Advanced Microprocessors and Peripherals by A K Ray and K M Burchundi second edition pg no : 556 and Intel Microprocessorpg no 759	PPT,Videos from bharatacharyaeducation.com	19/7	01	Jaiky
6	22 July - 26 July 2019	5	2	Branch prediction, instruction and data caches, the floating unit,Basic Pentium programming		Intel Microprocessor by Barry Brey,Eighth edition,Page no 759	PPT,Videos from bharatacharyaeducation.com	24/7		Jaiky
8	29 July-03 Aug 2019			**Sessional I**						
9	05 Aug-09 Aug 2019	5	3	Basic Pentium programming : programmer's model, register set,addressing modes, instruction set, data types	Instructions/Program Practice	Microprocessors and Microcontrollers		08/08		Jaiky
10	12 Aug-17 Aug 2019	4	3	Data transfer instructions. Advanced Pentium programming: String instructions, arithmetic instructions.	Instructions/Program Practice	Microprocessors and Microcontrollers		17/08		
	19 Aug-23 Aug 2019	5	4	logical instructions, bit manipulations instruction Programs.	Instructions/Program Practice	Microprocessors and Microcontrollers		22/08	2	Jaiky
	26 Aug-31 Aug 2019	6	4 & 5	program transfer instructions & processor control instruction. 8051 Micro-controller: Micro-controller NCS-51 family architecture.	Instructions/Program Practice	Microprocessors and Microcontrollers		27/08		

Faculty in Charge

HOD Jaiky

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HOD Jaiky

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
	2 Sept-7 Sept 2019	5	5	on-chip data memory & program memory,organization-register set, register bank , SFRs.interrupt structure	Comparing Microprocessor and microcontrollers	The 8051 Microcontroller and Embedded Systems by Mohamad Ali Mazidi	Bahratacharyaeducation video,ppt,blackboard and chalk		05/09	
	9 Sept-14 Sept 2019	4	5	Timers & their programming, serial port & programming, design of minimum system using 8051 micro-controller for various applications	Serial and timer programs on MCU 8051 IDE	8051 Microcontroller by Ayala	Bahratacharyaeducation video,ppt,blackboard and chalk		18/09	11/11/19
11	16 Sept-21 Sept 2019	6	6	Overview of 8096 Micro-controller: General description, processor section, on-chip data I/O section. Basic software examples: using the 8096's processing section, using the I/O section	Case Study	Advance microcontrollers raj Kamal	Assignment & discussion from comparing previous microcontroller	03	24/09	
12				**Sessional II**						

Subject Teacher

HOD

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Faculty in Charge

~~HOD~~

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

CCOEW/CE / 19-20

Date: 17/6/2019

LESSON & TEACHING PLAN for Operating System

COMPUTER ENGINEERING DEPARTMENT

Faculty Name: Prof. Shailesh Sahu | **Year: 2019-2020** | **Sem:- 7th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC sign
				17 -21 June -Android Traning						
1	24 - 29 June	5	1	What is Operating System do(OS), Types of OS,Operating system User-operating system Interface System calls, Types of system calls System programs,operating system structure Tutorial		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451	PPTs-chapter 1 from silberteaz . Videos- opearting system introduction Shaun michel stone	29/06		
2	1-6 July	5	1	Virtual machines FILE SYSTEM: File concepts, Access Directory & Disk structure File system Mounting, File sharing, protection Tutorial		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451	PPTs on Virtual machine - Sai Sidddharth	6/07		

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Academic in Charge

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC sign
3	8-12 July	5	1	File system structure,File system implementation, Directory implementation,Allocation method, Free-space management Efficiency & performance, recovery Tutorial		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128	PPTs, by silberteaz Videos-File Structure by Shaun michel stone	11/7		
4	15-20 July	5	2	Process concept, process scheduling operations on process,interprocess communication THREADING: Multithreaded programming overview,multithreading models. PROCESS SCHEDULING: Basic concepts, Tutorial		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128	PPTs on process syncronization silberteaz ,process management by Shaun michel stone Animated Videos	18/7		
5	22-26 July	5	2	scheduling criteria scheduling algorithm, multiprocessor scheduling algorithm evaluationithm, multiprocessor scheduling algorithm evaluationithm, Tutorial		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257	Scheduling Algorithm PPTs, Chalk Board	25/7	28/7	
23 July - 03 Aug Sessional-1										

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC sign
9	26 Aug - 31 Aug	6	5	Disk attachment Disk scheduling Disk management Introduction to RAID structure swapping Tutorial		1.Opearting System Concepts by Avi	Disk and preparing numerical ppts	27/8/19		
10	2 Sep -7 Sep	5	5	contiguous memory allocation paging structure of page table, segmentation VIRTUAL MEMORY MANAGEMENT: Background demand paging copy-on-write, page replacement, allocation of frames		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396	PPTs onmemory management by silbertz , video by Shaun michel stone Animated Videos and Chalk Board	9/9/19		
11	9 Sep -13 Sep	6	5	Thrashing, memory mapped file Allocating kernel memory Tutorial			PPTs on system protection by silbertz , Chalk Board			
			6	SYSTEM PROTECTION: Goals of protection principles and Domain of protection Access Matrix implementation		1.Opearting System Concepts by Avi Silberschatz, Galvin Chapter 14 pg no. 591-610		13/9/19		
12	16 Sep-21 Sep	5	6	Access control Revocation of access Right capability based systems language based protection,SYSTEM SECURITY Tutorial		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 15, Pg no. 621-654	PPTs on system protection by silbertz , Chalk Board	20/9/19	20/9/19	
23 Sept- 28 Sept - Sessional- II										

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment /Tutorial Date	AC sign
6	05 Aug-09 Aug	5	3	PROCESS SYNCHRONIZATION: Background critical section problem Peterson`s solution,synchronization, Hardware solution, semaphore monitors, classic problems of synchronization		1.Opearting System Concepts by Avi Silberschatz, Galvin Chapter 7, pg no. 283-304	PPTs on Process syncronization by silbertz ,process management by Shaun michel stone Animated Videos	19/8		30/9/18
7	13 Aug-17 Aug	5	3 4	types of semaphore DEADLOCKS: System model, Deadlock characterization Methods for handling deadlocks Deadlock prevention,deadlock avoidance		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257 Chapter 7, pg no. 283-304	PPTs on deadlock by silbertz , and Chalk Board	24/8	2 24/8	
8	19 Aug-24 Aug	5	4 5	Deadlock detection Recovery from deadlock (Tutorial) SECONDARY STORAGE STRUCTURE: Overview of mass storage structure Disk structure Tutorial		1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396	PPTs on deadlock by silbertz , deadlock by Shaun michel stone Animated Videosand Chalk Board		24/08	

Faculty in Charge

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Academic in Charge

CCOEW/CE / 19-20

Date: 17 / 06 / 2019

LESSON & TEACHING PLAN for IANS

Department of COMPUTER ENGINEERING

Faculty Name: Prof. Sharayu Deote | Year : 2019-20 | SEM: VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	ACs sign
1	18-22			Andriod Training						
2	24-29 June	2	1	Security fundamentals :Introduction Terminology Attacks ,security goals Authentication & Authorization	Discussion on cyber crime happened in last AY possible solution	Cryptography & n/w security by william stallings pg no. 1-20	ppts /provided notes /shown video	26/06		
		1		Ciber techniques:Substitution and Transposition Various algorithm and its implementation	Implementation on laptop Activity to crack cipher text created one students by other students	Cryptography & n/w security by william stallings pg no. 20 -40	ppts	28/06		
		1		Tutorial	Practice on university questions on covered topics			29/06		

Faculty in Charge

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Academic Coordinator

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	ACs sign
3	1 -6 July	2	1	Attacks ,security goals : Authentication & Authorization	hands on hacking		ppt's	03/07		
		1		One time pad ,Modular Arithmatic ,GCD	Implementation on laptop			04/07		
		1		stream cipher ,block cipher secret splitting and sharing				05/07		
		1		Tutorial	Practice on university questions on covered topics			06/07		
4	8 - 12 July	2	1	eclide algoriths, Chinese Remainder theorm ,Descete Logarithm, Fermats Theorms	Solving Examples in a groups		ppts	09/07		
		1		Block generation & uses ,ECC,Hash Algorithms: SHA-1,MD5	Solving Examples in a groups			10/07		
		1		Modes of operations , ECC	Video			11/07		
		1		Tutorial	Practice on university questions on covered topics			12/07		
5	15-19 July	2	II	Linear cryptanalysis and Differential cryptanalysis	Groups acivity for finding differences in both algorithms		ppts	16/07	As-01	
		1		Cryptograhpy Symmetric key algorithm : DES,AES	MCQ			17/07		
		1		Blowfish Algorithm,				18/07		
		1		Attacks on DES Public key algorithm :RSA,Key Exchange	Thought processes for Attacks			19/07		

Faculty in Charge

Dr. Milind Khamapurkar
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Academic coordinator

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	ACs sign
		1		Tutorial	Practice on university questions on covered topics		ppt's	22/07		
6	22 - 26 July	2	II	Digital Certificate, X.509 certificates,			Chalk Board. ppts	23/07		
		1		Digital Signature				24/07		
		1		Diffiee Hellman Key Exchange	Practise Example.			25/07		
		1		Tutorial				26/07		
Sessional -I (30-Jul To 03- Aug-2019)										
7	5- 09 Aug	2	III	Key Management: Key Management Introduction				05/08		
		1		Generations, Distribution, Updation,	Notes					
		1		Tutorial				06/08		
		1		One Way Authentication,				07/08		
		1		Kerberos.				08/08		
		1		Tutorial				09/08		
8	12- 17Aug	2		Network Security						
		1		Layer Wise Security Concerns,						
		1		IPSEC- Introduction, AH and ESP,				17/08		
		1		Tunnel Mode, Transport						
		1		Mode,						
		1		Tutorial						
		2	IV	Security Associations, SSL- Introduction,				22/08		
		1		Handshake Protocol, Record Layer Protocol.				23/08		

Faculty in Charge

Dr. Milind Khanapurkar
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Yashoda College of Engineering for Women
Hingna, Nagpur-441110.

Academic coordinator

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	ACs sign
9	19 - 23 Aug	1		IKE-Internet Key Exchange Protocol.				26/08		
		1		Intrusion Detection Systems: Introduction,						
		1		Anomaly						
		1		Based,Signature Based, Host Based,				27/08		
		1		Network Based Systems.						
10	26 - 31 Aug	2	V	Security Management and Applications				28/08		
		1		Intruders, Intrusion detection, Password management,						
		1		Worms, viruses, Trojans,				04/09		
		1		Virus countermeasures, Firewalls,						
		1		Firewall design Principals,						
11	3-7 Sept	2		Trusted system, Electronic						
		1		Payment: Introduction, Payment types,				13/09		
		1		Smart Cards, Chip card transactions and attacks,payment						
		1		over internet,						
		1		Mobile Payments, Electronic Cash.				18/09		
12	09-13 Sept	2		Cyber Crimes & Laws						
		1		Introduction, Computer Forensics,						
		1		Online Investigative tool,				20/09		
		1		tracing and recovering electronic						
		1		evidence						

Faculty in Charge

Dr. Milind Khanapurkar
Principal
Maharashtra Karmaveer Shikshan Sanstha's
Nagpur-441110

Academic coordinator

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	ACs sign
13	16-21 Sept	2	VI	Internet fraud. Cyber Stalking. Identity Theft.				25/09		
		1		Industrial Espionage. Cyber Terrorism.						
		1		Indian IT laws: Introduction and briefs about IT laws clauses						
				Sessional -II	**24 Sept to 30 Sept**					

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Faculty in Charge

Academic coordinator

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CUMMINS COLLEGE OF ENGINEERING FOR WOMEN
Sharpening Engineering Acumen with a difference

CCOEW/CE / 19-20

Date: / / 2019

LESSON & TEACHING PLAN for Web Technologies

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar | Year : 2019-20 | Sem:- 7'th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	24 June-29 june	5	1	Introduction to Web Technology Web Essentials, client server communications, Web Browser, Markup Languages	i) Practical pracise will taken on HTML, .XHTML,Java Script Program also will take MCQ's on topics ii) Task given students for design creative web pages , also collect more info about web essentials as an assignment	1) "Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates	Related topics pdf & ppt and videos will show	24/6/19 25/6/19 26/6/19 27/6/19 28/6/19		
2	1 July-6 July	5		HTML XHTML,SHTML XML, simple XHTML page style sheets				29/6/19 1/7/19 2/7/19 3/7/19		
3	8 July-14 July	5		Introduction to CSS, Need for CSS basic syntax and extrusion, DHTML.				4/7/19 5/7/19 6/7/19 8/7/19 9/7/19		
4	15 July-20July	5	2	Client side programming, Java Script Language, host objects: Browsers hard disk,				10/7/19 11/7/19 17/7/19 18/7/19 19/7/19	1st Assign	
5	22.July-26.July	4		DOM ,AJAX			(2)	20/7/19 22/7/19 23/7/19 24,25,26/7/19		
6	29 July-3 Aug			Sessional II						

Dr. Milind Khanapurkar
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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
7	5Aug-9 Aug	5	3	JAVA Applets, server side programming: Java Servlets - basics.	Given examples for more practse	1) "Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates	Related topics pdf & ppt & Videos will show	5/8/19 6/8/19 7/8/19 13/8/19 14/8/19		
8	13 Aug-17 aug	5	3	Java Servlets - basics. simple program. separating programming and presentations	Given examples for more practse			16/8/19 17/8/19 19/8/19 19/8/19 20/8/19		
9	19 Aug-23 Aug	4	3	JSP basics simple JSP pages. Representing web data	Given Task to find out applications for related topic			21/8/19 23/8/19 24/8/19 26/8/19 27/8/19		
10	26 Aug-31 Aug	5	4	database connectivity JDBC Dynamic web pages, XML, DTD XML schema,	XML practice program			5/9/19 4/9/19 5/9/19 6/9/19 7/9/19		
11	2 Sept-7 Sept	5	4	DOM, SAX Parsing XML Document using DOM/SAX parser.				9/9/19 10/9/19 11/9/19 12/9/19		
12	9Sept-13Sept	5	5	Email Tools FTP Tools FTP Tools WWW,TELNET, PUTTY, DNS, Web Services & Feeds	Seminar session			17/9/19 18/9/19 18/9/19 19/9/19 20/9/19		
13	16 Sept-21 Sept	5	6	SOAP, RSS Feeds Building web Applications, Cookies sessions, APACHE TOMCAT,Accessibility Internationalization Types of Web Attack ,Intrusions.				20/9/19 21/9/19 23/9/19 23/9/19 24/9/19 24/9/19		
14	25 Sept-29 Sept			**Sessional II**						

Faculty In-Charge

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• Academic Co-ordinator

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vidya S Raut | **Department : Computer Engineering** | **Subject: Compiler Construction(BECME704T)** | **SEM : 7th Sem (2018-19)**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
1	24/06/19-29/06/19	6	Unit No 1	Compiler structure: analysis-synthesis model of compilation, various phases of a compiler, tool based approach to compiler construction.	Activity 1	Compilers Principle, Techniques and tools, Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman,Pg No 1-11 "Introduction to Compiling Techniques: First Course Using ANSI C, Lex and Yacc", J.P. pg n0 .28,76-83,109-130,	https://nptel.ac.in/courses/106108052/1 https://youtu.be/DFMf9oPbuRI	24/6/19 25/6/19 26/6/19 28/6/19 29/6/19	T 29/6/19	
2	1/07/19-6/07/19	6		Lexical analysis: interface with input, parser and symbol table, token, lexeme and patterns, difficulties in lexical analysis,error reporting, and implementation. Regular definition, Transition diagrams,LEX.		Compiler Design by O.G.Kakde, Laxmi Publications Pvt Limited		1/7/19 2/7/19 3/7/19 4/7/19 5/7/19	T 5/7/19	
3	08/07/19-12/07/19	4	Unit No.2	Syntax analysis: context free grammars, ambiguity, associativity, precedence, top down parsing, recursive descent parsing.	Activity 2	Compiler Design by O.G.Kakde, Laxmi Publications Pvt Limited pg no 51,197,205,207	https://nptel.ac.in/courses/106103070/15	9/7/19 10/7/19 15/7/19 17/7/19	T 17/7/19.	
4	15/07/19-20/07/19	6		transformation on the grammars, predictive parsing, Bottom up parsing, operator precedence grammars		. Principles of Compiler design, Alfred V. Aho, Jeffrey D. Ullman, NAROSA Publications	https://www.youtube.com/watch?v=i99RsZkAqYI	18/7/19 19/7/19 19/7/19 20/7/19 20/7/19 22/7/19.	Assig 1 22/7/19	

Faculty in Charge

Dr. Milind Khanapurkar
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AC

AC

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
5	22/07/19-26/07/19	5		LR parsers (SLR, LALR, LR), YACC. Dynamic storage allocation.		Principles of Compiler design, Alfred V. Aho, Jeffrey D. Ullman, NAROSA Publications, Pg no 241,-259,264,271	https://nptel.ac.in/courses/106104072/4	23/7/19 24/7/19 25/7/19 26/7/19 29/7/19	T: 29/7	
6	30/07/19-3/08/19			Sessional I						
7	05/08/19-09/08/19	4	Unit No.3	Type system, specification of simple type checker, equivalence of type expression, type conversion, polymorhism, type checking algorithms,	Activity 3	Compilers Principle, Techniques and tools, Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman, Pg No 1-11	https://nptel.ac.in/courses/106104072/5	5/8/19 6/8/19 8/8/19 13/8/19		
8	13/08/19-17/08/19	4		source language issues, storage organizations, storage allocation strategies, parameter passing, symbol table, dynamic storage allocation techniques.		Compilers Principle, Techniques and tools, Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman, Pg No 1-11	https://nptel.ac.in/courses/106108113/17	16/8/19 20/8/19 21/8/19 22/8/19	T: 22/8	
9	19/08/19-23/08/19	5	Unit No.4	Intermediate code generation: intermediate representations, translation of declarations,	Activity 4	Compiler Design by O.G.Kakde, Laxmi Publications Pvt Limited	https://nptel.ac.in/courses/106104072/8	23/8/19 26/8/19 26/8/19		
10	26/08/19-31/08/19	6		Intermediate Code generation for control flow, boolean expressions and procedure calls, implementation issues.		Compilers Principle, Techniques and tools, Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman, Pg No32, 91,357 ,572,574,996	https://nptel.ac.in/courses/106104072/8	27/8/19 3/9/19 4/9/19 5/9/19 7/9/19	Assig 2. T: 7/9	
11	3/09/19-07/09/19	5	Unit No.5	Code generation and instruction selection: issues, basic blocks and flow graphs, register allocation, code generation,	Activity 5	Compilers Principle, Techniques and tools, Alfred V. Aho, Ravi Sethi, Jeffrey D. Ullman, Pg No 1-11	https://nptel.ac.in/courses/106104072/9	9/9/19 10/9/19 11/9/19		
12	09/09/19-13/09/19	4		DAG representation of programs, code generation from dags, peep hole optimization, code generator generators, specifications of machine.		Principles of Compiler design, Alfred V. Aho, Jeffrey D. Ullman, NAROSA Publications Pg No 556	https://nptel.ac.in/courses/106108052/module3/local-opt-part-2.pdf	11/9/19 16/9/19 17/9/19 18	T: 18/9	

Faculty in Charge

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AC

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	AC's sign
13	16/09/19-21/09/19	6	Unit No.6	Code optimization, source of optimizations, optimization of basic blocks, loops, global dataflow analysis, solution to iterative dataflow equations, Code improving transformations, dealing with aliases, data flow analysis of structured flow graphs	Activity 6	Principles of Compiler design, Alfred V. Aho, Jeffrey D. Ullman, NAROSA Publications Pg No 582-635	https://nptel.ac.in/courses/106104025/24	19/9/19 20/9/19 21/9/19 24/9/19 26/9/19 27/9	Assignment (27/9)	
14	24/09/19- 30/09/19			Sessional II						

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CCOEW/ Department of Computer Engineering / 19-20 DT.24/06/2019

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR										
Faculty Name: Prof. Bhagyashree Joshi						Subject: DMW		SEM (2018-19)		Sem:- Seventh Sem
W No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	ICT tools	Completion Date	Assignment/ Tutorial Date	AC sign
1	17 - 21 June- Android Training									
2	24 - 29 june	6	I	Introduction to data warehousing,	PPT/students will explain	DMW -Han Kamber 126	self prepared ppt	26/6		
				evolution of decision support systems	PPT/students will explain	Internet	self prepared ppt			
				Data warehouse life cycle	PPT/students will explain	Internet	self prepared ppt		1/7	
				building a data warehouse, Data Warehousing Components.	PPT/students will explain	DMW -Han Kamber 135	self prepared ppt			
				Trends in data warehousing Data marts	PPT/students will explain	DMW -Han Kamber 132	self prepared ppt			
				Tutorial	Quiz		self prepared ppt	2/7		
3	1-6 July	6	I	Data Warehousing Architecture,	PPT/students explained	DMW -Han Kamber 130	self prepared ppt	3/7		
				Metadata	PPT/students explained	DMW -Han Kamber 134	self prepared ppt			
			II	On Line Analytical Processing,	PPT/students explained	DMW -Han Kamber 146	self prepared ppt		25/7	
				OLAP in the Data Warehouse: Demand for C	PPT/students explained	DMW -Han Kamber 150	Web-			
				need for multidimensional analysis,	PPT/students explained	DMW -Han Kamber 139	Tutorials point			
				Examples				9/7		
4	8 - 11 July	4	II	need for multidimensional analysis,	Surprise Test	DMW -Han Kamber 139	Tutorials point	10/7		
				limitations of other analysis methods,OLAP	PPT/students explained	DMW -Han Kamber 155	Tutorials point			
				OLAP characteristics,	PPT/Video	DMW -Han Kamber 155	Tutorials point			
				major features and functions,	PPT	DMW -Han Kamber 155	https://www.youtube.com/watch?v=51UL99	19/7		

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5	15-20 July	5	II	OLAP models the MOLAP model,	PPT	DMW -Han Kamber 164	
				the ROLAP model,ROLAP versus MOLAP,		DM by Arun pujari 34	
				Multidimensional Data Models Types of Da			
				Tables and Spreadsheets to Data Cubes,			
				Tutorial		DMW -Han Kamber 194	
6	22-29 July	5	II	Identifying Facts and Dimensions, Designin	PPT	DMW -Han Kamber 136	
				Designing Dimension Table		DMW -Han Kamber 136	
				Examples			
				Data Warehouse Schemas,		DMW -Han Kamber 139	
				Introduction to OLTP		DMW -Han Kamber 164	

30 july 3 Aug Sessional-1

7	5 Aug-9 Aug	5	III	Data Mining, Introduction: Motivation, Impo		DM by Arun pujari 100	
				Data Mining Functionalities Knowledge		DMW -Han Kamber 7	
				Discovery Process, KDD and Data Mining,		DMW -Han Kamber 6	
				Data Mining vs. Query Tools, interesting pat		DMW -Han Kamber 128	
				Data Mining Functionalities Knowledge			
8	12Aug-17 Aug	5	III	Discovery Process, KDD and Data Mining,		DMW -Han Kamber 7	
				Data Mining vs. Query Tools, interesting pat		DMW -Han Kamber 6	
			IV	Classification of data mining systems		DMW -Han Kamber 128	
				Major issues, from Data warehousing to data		DMW -Han Kamber 85	
				Data Preprocessing: Need for Preprocessing		DMW -Han Kamber 88	
				Tutorial			
10	19 Aug-23 Aug	5	IV	Data Cleaning, Data Integration and Transfo		DMW -Han Kamber 90	
				Data Reduction, Discrimination and Concep		DMW -Han Kamber 93	
				Mining Frequent Patterns,		IDM Tan,steinbach,Vk 360	
				Associations and Correlations – Mining Methods		IDM Tan,steinbach,Vk 327	
				Mining Various		IDM Tan,steinbach,Vk 327	

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11	26 Aug - 31 Aug	6	V	Kinds of Association Rules		IDM Tan,steinbach,Vk 340
				Correlation Analysis		DMW -Han Kamber 265
				Constraint Based Association		DMW -Han Kamber 294
				Mining – Classification and Prediction		DMW -Han Kamber 294
				Classification – Rule Based Classification		DMW -Han Kamber355
				Tutorial		
12	2 Sep-7 Sep	5	V	Classification by Back propagation –		DMW -Han Kamber 393
				Support Vector Machines –		DMW -Han Kamber 408
				Associative Classification		DMW -Han Kamber 416
				Methods - Prediction		DMW -Han Kamber 422
				Lazy Learners – Other Classification		DMW -Han Kamber 426
				Tutorial		
13	9 Sep-13 Sep	6	VI	Cluster Analysis - Types of Data –		DMW -Han Kamber 444
				Categorization of Major Clustering Methods		DMW -Han Kamber 448
				Partitioning Methods –		DMW -Han Kamber 451
				Hierarchical Methods -		DMW -Han Kamber 457
				Density-Based Methods –		DMW -Han Kamber 471
				Grid Based Methods		DMW -Han Kamber 479
14	16 Sep-23 Sep	6	VI	Model-Based Clustering Methods –		DMW -Han Kamber 497
				Clustering High Dimensional Data based analysis		DMW -Han Kamber 508
				Data Constraint – Based Cluster Analysis –		DMW -Han Kamber 532
				Outlier Analysis , Data Mining Applications		DMW -Han Kamber 544, 607
				Social Impacts of Data Mining Case Studies:		DMW -Han Kamber ,620
				Text Database Mining Spatial Databases		DMW -Han Kamber ,622
24 Sept- 30 Sept - Sessional- II						

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Student Activ

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Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Cummins College of Engineering for Women, Nagpur

Lab Practicals Plan Sem. IV

Date: / /

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. S.Khamankar | **Subject: C-Lab- II** | **for** | **Department:CE** | **Section: 4'th Sem**

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	fill
	Introduction	17/12/18	7/1/19	8	21/12/18	21/12/18	8	20/12/18	20/12/18	9	
1	Study of COBOL coding sheet.	24/12/18	7/1/19	10	28/12/18	21/12/18	12	27/12/18	20/12/18	13	
2	Study of working of various storage media.	31/12/18	7/1/19	12	4/1/2019	28/12/18	10	3/1/2019	27/12/18	9	
3	Write a menu driven program to accept two numbers from keyboard and perform its addition, subtraction, multiplication and division based on choice.	7/1/2019	14/1/19	15	11/1/18	4/1/19	14	18/1/19	31/1/19	13	
4	Write a program for conversion of degree to Fahrenheit & vice versa in Cobol	14/1/19	14/1/19	12	18/1/19	11/1/19	10	17/1/19	10/1/19	12	
5	Write a program for finding greatest nos and smallest nos among three	4/2/2019	1/2/19	14	8/2/2019	18/1/19	15	7/2/2019	17/1/19	11	
6	Write a program to demonstrate STRING and UNSTRING verb.	11/2/2019	25/2/19	13	15/2/19	8/2/19	12	14/2/19	7/2/19	15	
7	Write a program to create sequential file and display all the records.	25/2/19	1/3/19	15	1/3/2019	15/2/19	15	28/2/19	14/2/19	17	
8	Write a program to demonstrate sorting of a file.	4/3/19	1/3/19	18	8/3/2019	1/3/19	17	7/3/19	7/3/19	15	
9	Write a program to demonstrate merging of files.	11/3/19	11/3/19	17	15/3/19	15/3/19	15	14/3/19	14/3/19	16	

Subject -Teacher

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CCOEW/CE / 18-19

Date: 10 /12 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vidya S. Raut_____ | Subject:Object Oriented Methodlogy | Department: Computer Engineering | SEM : 4thSemCE(2018-19)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	17/12/2018 to 21/12/2018	5	1	Course Objetive Introduction **Object Oriented Development** Object Oriented Themes. Object Modeling: Object & Classes Tutorial		Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 1,2,3,4 Pg No. 4, 15, 21,57	PPT	19/12 (4) 20/12 20/12 21/12		
2	24/12/2018 to 29/12/2018	5		Object Modeling: Link and Associations ,Generalization And Inheritance, Grouping Constructs, A sample object module, Tutorial.	Activity 1.1:		PPT	20/12 — Tutorial. 21/12 26/12 (2) 28/12 29/12 (2)		
3	31/12/2018 to 5/1/2019	6		Advanced Object Modling : Aggregation, Abstract Classes ,Mmultiple Inheritance Metadata,Candidate keys,Constriants.Tutorial	Activity 1.2		PPT	29/12 31/12 (2) 1/1 2/1 3/1, 4/1 — Tutorial		
4	7/1/2019 to 11/1/2019	5	2	**Dynamic modeling :** Events & states Nested state diagrams Concurrency . Tutorial		Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 5,6 Pg	https://www.tutorialspoint.com/object_oriented_analysis_design/ooad_dynamic_modeling.htm	5/1 7/1 8/1, 9/1 10/1	Tutorial Assg 1	
5	15/1/2019 to 19/1/2019	5		Advanced Dynami Modeling Concepts Sample Dynamic Module Tutorial	Activity 2.1 :		PPT	11/1 14/1 16/1 (2) 17/1	16/1/19. Tutorial.	

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
6	21/1/2019 to 25/1/2019	5		Functional models,Data Flow Diagrams.Specufying operation Constriants A sample functional module. Tutorial	Activity 2.2 :	No. 84,123	https://www.tutorialspoint.com/object_oriented_analysis_design/ooad_uml_analysis_model.htm	19/1/19 21/1/19 22/1/19 24/1/19	Tutorial	
7	28/1/2019 to 2/2/2019			Ananya Cultural Program						
8	4/2/2019 to 8/2/2019	5	3	**Design methodology** Overview of Analysis, Problem Statements, TM network, Object Modeling Various Phases	Activity 3.1 :	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . . Ch No. 8 Pg No.148	PPT	24/1/19 25/1/19 5/2/19 6/2/19 7/2/19.		13/02
9	11/2/2019 to 16/2/2019	6		Dynamic modeling, Various Phases Adding Operation, Refining the object model Tutorial. Tutorial	Activity 3.2:		PPT	8/2/19 11/2/19. 12/2/19 13/2 13/2	Tutorial	
10	18/02/19-23/02/19			**Sessional I**						
11	25/2/2019 to 2/3/2019	6	4	**System design** Overview systems Design.Allocating Subsystems Management of Data Stores.Choosing Software Control Implementation Handling Boundary Conditions, Setting Trade-Offs Priorites	Activity 4.1:	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 9 Pg No.198	System design PDF	15/2 15/2 16/2 23/2 25/2		
12	4/3/2019 to 9/3/2019	6		Common Architectural Framework Tutorial	Activity 4.2:		System design PDF	27/2 27/2 28/2	Assign 2 28/2/19.	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
13	11/3/2019 to 16/3/2019	6	5	**Object Design:** Overview Designing Algorithms Design Optimization Implementation of Control Adjustment of Inheritance. Design of Associations Object Representations Physical Packaging Documenting Design Decisions Tutorial	Activity 5.1: Activity 5.2:	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 10 Pg No. 227	PPT	1/3/19 4/3/19 4/3/19 5/3/19 6/3/19 7/3/19	Tutorial	
14	18/3/2019 to 23/3/2019	6	6	Comparison of methodologies Information Modeling Notations Implementation using Programming Languages Implementation using Database Systems Object Oriented Reusability ,Extensibility Robustness Tutorial Revision	Activity 6.1: Activity 6.2:	Object -Oriented Modeling and Design By-James Rumbaugh,Michael Blaha,William Premerlani, Frederick Eddy, William lorensen . Ch No. 12 Pg No.266	PPT	8/3/19 9/3/19 11/3/19 12/3/19 13/3/19 14/3 15/3-20/3	Assig 20/3/19 Tutorial	
15	25/03/19- 30/03/19			**Sessional II**						

Faculty in Charge

HOD

Maharshi Karve Stree Shikshan Samstha's
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Cummins College of Engineering for Women, Nagpur

LESSON & TEACHING PLAN for SEPM

Department of Computer Engineering

Date: 17 / 12 / 2018

Faculty Name: Prof. Suruchi Kitey

Session: (2018-19) | Sem:- Sixth

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17/12/18-21/12/18	5	I	Introduction,CO Discussion evolving role of software software characteristics software myths software process		"Pressman R., ""Software Engineering, A Practitioners Approach"", Tata MCGraw Hill Publication pg 34,36,45,53,54,71,79,80,81,83,86,88,106,110"	Chalk board, chalk	17|12|18 18|12|18 19|12|18 19|12|18 20|12|18		
2	24/12/18-29/12/18	5		software engineering software development phases waterfall model,RAD model prototype model incremental model spiral model,WINWIN spiral model	1. Comparitive study of all models 2. drawing competion of digram(all models)		Chalk board	21|12|18 24|12|18 26|12|18 28|12|18 29|12|18	A-I 24|12|18	08|0
3	31/12/18-5/1/19	6		concurrent,agile process extreme programming System Engineering: Hierarchy Business Process and Product Engineering: Overview Requirements Engineering	1.Distribute chits(story) of paper having some numbers and theory, students have to decide which chits are combine together & process 1st and also tell the feedback of story combination.	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 157	PPT, video	31|12|18 4|1|19 4|1|19		

Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	7/1/19-11/1/19	5	II	Initiating the process, Eliciting Requirements Building the Requirements Model Negotiating, Validatingrequirements requirements Requirements Analysis	1. Make a group of Students(5 in each) one group gather requirement from other group and from that requirement they analyze, negotitate & validate requirement and make requirement table (ex. Requirement of technical committee,decoration etc in anannya)	Publication pg 157-162,176,181,184,196,208,218,226,233	PPT, Projector	5/1/19 8/1/19 9/1/19 11/1/19		
5	14/1/19-19/1/19			Scenario-Based Analysis Requirements Modeling strategies Flow-Oriented Modeling Class based modeling SRS	From above activity students draw the all types of modeling diagrams		Chalk board chalk	14/1/19 14/1/19 16/1/19 16/1/19		18/1
6	21/1/19-25/1/19	5	III	Design Process Design Principles, and Concepts Effective Modular design The Design Model: Data,Architectural,Interface design Architectural Design: Software Architecture	1. Give them analysis of any problem statement and prepare the design model(total stackholders,output benefited etc)	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw	Chalk board, video on Projector	18/1/19 19/1/19 21/1/19 23/1/19		
7	28/1/19-2/2/19	6		**Ananya 2k19**						
8	4/2/19-8/2/19	5		Architectural Styles & Design Interface Design: Rules User Interface Analysis and Design Applying Interface Design Steps Component- level Design		Hill Publication pg 261,265,274,291,298,357,361,373,324	PPT, video on Projector	25/1/19 5/2/19 6/2/19 8/2/19	A-II 7/2/19	
9	11/2/19-16/2/19	6	IV	Testing Tactics: Testing Fundamentals Control Structure Testing Black Box Testing. A Strategic approach and Strategic Issues of testing	1.Make students Group and give them one object(pen,pencil etc) & student will write test plan, test cases, & different paths.	Pressman R., "Software Engineering, A Practitioners Approach", Tata	Chalk board, PPT	12/2/19 13/2/19 15/2/19 16/2/19		

Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
10	18/2/19-22/2/19	**Sessional I**								
11	25/2/19-2/3/19	6	V	White Box Testing: Basis Path Testing Unit Testing Integration Testing Validation Testing. Debugging	1. Write simple c program &test their basic paths 2. stress testing by thread & rubberband	MCGraw Hill Publication pg 393,394,397,406,411,421	Chalk board PPT	16/2/19 22/2/19 23/2/19 25/2/19		
12	4/3/19-8/3/19	5		Management Spectrum: 4 P's Critical practices Metrics in process and project domains software measurement, metrics for software quality,	1. Students play game that they find minum price (with quality+ duration+no. of people) of objects and make decision accordingly	Pressman R., "Software Engineering, A Practitioners Approach", Tata MCGraw Hill Publication pg 629,644,650,661,677,696,698	video Chalk board	26/2/19 27/2/19 1/3/19 4/3/19	A-III 5/3	08/03
13	11/3/19-16/3/19	6		project planning objectives software scope and feasibility Decomposition Techniques Empirical Estimation Models Specialized Estimation tech Make by decision	1. Mini project group tell the scop of their project. 2. Calculate cost of object with COCOMO model & numerical 3. distribution game		Chalk board PPT	5/3/19 6/3/19 8/3/19 9/3/19		
14	18/3/19-22/3/19	4		Reactive versus Proactive S/w Risk Risk Identification, projection, refinement RMMM, Task set for software project defining a task network scheduling,	1.How they avoid risk in their problem statement 2.Students have to prepare RMMM plan for their mini project.	Pressman R., "Software Engineering, A Practitioners Approach", Tata	Projector PPT	9/3/19 11/3/19 12/3/19 13/3/19 15/3/19		

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Faculty in Charge

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WEEK No.	Week	No. Of Lect	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
15	25/3/19-30/3/19	6	VI	earned value analysis Software Quality Factors SQA Activities Software reviews Software reliability,FTR software configuration management the SCM Repository SCM process	1. Explain any feedback form and reveiews(quality). 2. one student act as SCM coordinator & others are developers.	Approach , Tata MCGraw Hill Publication pg 727,737,737-740,716,722,749,751,762,772,780	PPT, https://www.youtube.com/watch?v=AaHaLjuzUm8	16/3/19 18/3/19 19/3/19 20/3/19		29/03
16	26/3/19-30/3/19	Sessional II								

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Maharshi Karve Stree Shikshan Sanstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

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Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/CE/ 18-19

Date: 17/12/2018

LESSON & TEACHING PLAN for UNIX AND SHEEL PROGRAMMIN

Department of Computer Engineering

Faculty Name: Prof. Shailesh C. Sahu | **Year : 2018-19** | **Sem:- 8th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	17/12/18 21/12/18	5	1	General Overview of the system: System Structure (Architecture of UNIX Systems). User Perspective (The file system, Processing Environment.)	[1]	The Design of Unix Operating System by- M.J Bach (4-36)	ppt	21/12		
2	24/12/18 29/12/18	6	1	(Building Block Primitives),Operating systems services.Assumption about hardware (Interrupts and Exceptions, Processor Execution Levels, Memory Management).	[2]		ppt	29/12	1	04/01
3	31/12/18 05/01/19	6	1	Introduction to kernel: Architecture of the UNIX Operating System (Block Diagram of the system Kernel). Tutorial.			ppt	05/02		
4	07/01/19 11/01/19	5	2	Introduction to system Concepts (An Overview of the File Subsystem,Processes-State and Transitions). Kernel data structures,System administration.	[3]	The Design of Unix Operating System by- M.J Bach (38-56)	ppt	11/01		

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Nagpur-441110

Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
5	14/01/19 19/01/19	5	2	The Buffer cache: Buffer headers, structure of Buffer pool, Scenarios for retrival of a buffer.(Scenarios no. 1 to 5) Reading and writing disk blocks. Tutorial.	[47]	The Design of Unix Operating System by- M.J Bach (38-56)	video	19/01	(2)	
6	21/01/19 25/01/19	5	3	Internal representation of files: Inodes (Definition, Accessing Inodes, Releasing Inodes).Structure of regular files.		The Design of Unix Operating System by- M.J Bach(67-88)	video	25/01	—	
28/01/19 to 02/02/19				**Anannya cultural Festival& Alumnae meet**						
7	04/02/19 08/02/19	5	3	Directories.conventions of a path name of nodes (Algo-namei). Super block.Inode assignment to a new file (Algo-ialloc). Allocation of a disk block, other file types. Tutorial.		The Design of Unix Operating System by- M.J Bach(67-88)	video	8/2/19	6/2/19	9/2/19
8	11/02/19 16/02/19	6	4	System calls of the file systems: Open, Read,Write. File and record coding seek.close, file creation, creation of special fileschange directory, root, mode and owner.		The Design of Unix Operating System by- M.J Beach (91-140)	ppt	15/2/19	—	
18/02/19 to 23/02/19				**Sessional I**						
9	25/02/19 02/03/19	6	4	stat, fstat, pipes, dup mounting and unmounting file system, File system abstraction and maintenance. Tutorial.		The Design of Unix Operating System by- M.J Beach (91-140)	video	26/02/19	26/2	
10	05/03/19 08/03/19	4	5	The structure of the Processes:Process states and transitions Layout. Layout of System memory, Contex of the process, saving the contex of the process.		The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)	ppt	08/03/19	—	19/03
12	11/03/19 16/03/19	6	5	Manipulation of the process address space, sleep. Process control- Creation. Signal, termination, awaiting process termination, Invoking other programms. UID of a process, changing size of		The Design of Unix Operating System by- M.J Bach (147-151 & 227-238)	ppt	13/03/19	—	

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Faculty in Charge

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
13	18/03/19 22/03/19	4	6	Interprocess Communication: Process tracing, System V IPC,Network communications, sockets. Managing the system and network connection in any LINUX version: Monitoring resources, Mastering Time		Ubuntu Linux, Toolbox by Christopher Negus.	ppt	16/03/19	3	
14	25/03/19 30/03/19	6	6	Managing boot process, Controlling startup and Run levels. Configuring networks from the GUI, Managing Network Interface cards, Connections: using wireless connections, Troubleshooting network problems. Tutorial.			ppt	20/03/19	20/4/19	29/4
01/04/19 to 08/04/19				Sessional II						

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HOD

Date: 14 / 12 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Sneha Uttarwar								SEM Iv CE (2018-19)		Sem:- EVEN
Week No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17 Dec - 22 Dec	6	I	Basic concepts of set theory, Operations on Sets, The power set	Search application of set theory in computer science	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	19/12/18		
2	24 Dec - 29 Dec	5		Propositions and Logical Operations, Quantifiers, Conditional Statements and Tautologie	Discuss the university question paper	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	21/12/18 Tutorial-I		
3	31 Dec - 5 Jan	6	II	Properties of Relations, Equivalence Relations & PartitionsCompatible Relation, Manipulation of Relations, Composition of Relations, Transitive Closure of a relation, Partial order relation, Partially ordered set	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	02/1/19 Assignment -I	11/01/19 Assi-I	
4	7 Jan - 12 Jan	5		Matrix of Relation, Paths in Relations and DigraphsRelations and Digraphs,Hasse Diagrams	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	07/1/19 Tutorial -II		

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5	14 Jan - 19 Jan	5		Definition, Composition of functions, Types of Functions, Invertible Function, Permutation Function, Characteristics function of a set with Theorems.	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	14/01/19			
6	[illegible] Jan	5	VI	Generating Functions, Recurrence Relations Counting: Permutations & Combinations, Pigeonhole Principle with Simple Applications	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	17/01/19 Tutorial - III			
7	28 Jan - 2 Feb	ANANNYA 2019									
8	4 Feb - 9 Feb	5	V	Basic concepts of Graph Theory, Digraphs, Basic definitions, Paths and Circuits, Reachability and Connectedness, Subgraphs & Quotient Graphs	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	8/02/19	08/02 Assig - II		
9	11 Feb - 16 Feb	6		Isomorphic digraphs & Transitive Closure, digraph Euler's Path & Circuit (only definitions and examples	Discuss the university question paper	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	12/02/19 Tutorial - IV			
10	18 Feb - 23 Feb	SESSIONAL - I									

Faculty in Charge

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11	25 Feb - 2 Mar	6	V	Trees, Binary Tree, Labeled Trees, Undirected TreeSpanning Trees of Connected RelationPrim's Algorithm to construct Spanning Trees,Weighted Graph,Minimal Spanning Trees by Prim's Algorithm & Kruskal's Algorithm	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	16/02/19 Tutorial -V			
12	4 Mar - 9 Mar	5	III	Binary Operations, Properties, Semigroups, Monoids, SubsemigroupSubmonoid, Isomorphism & Homomorphism Groups (only definitions and examples)	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	23/02/19	06/03 Assign-III		
13	11 Mar - 16 Mar	6		Subgroups and Homomorphism, Cosets and Lagrange's Theorem, Normal subgroups	Discuss the university question paper	Discrete Mathematical structures by KOLMAN, BUSBY. ROSS	PPT for all topics	Tutorial -VI 07/03/19			
14	18 Mar - 23 Mar	5		Rings, Fields, Integral Domain, , Ring Homomorphism (definitions & examples)	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	12/03/19			

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15	25 Mar - 30 Mar	6	IV	Lattices: Properties, Types of Lattices, Sub lattices, Isomorphic Lattices,Complemented & Modular Lattices (definitions & example),Boolean Algebra: Definition, Properties,Simplification of Switching Circuits	Dividing students into group and Solving different example	Discrete Mathematical structures by KOLMAN, BUSBY, ROSS	PPT for all topics	Tutorial - V 29/03/19		

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Faculty in Charge

HOD

CCOEW/ Department of CE/ME/ETC/ 2018-19
Date 4 /12 /2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Rashmi Deshpande | **Subject: Functional English** | **Year (2018-19)** | **Sem:-VI**

WEEK No.	Week	No.Of Lect.	Unit No.	Exact Topic Name & Subtopic	Refrence Book - Chapter no, Page no	Completion Date	Assignment Date	HOD's remark	Principal
1	24 - 29 Dec.	2	2	*English for Competitive Exams and interview Technique* : IPA,Word Building,Synonyms,Antonyms,Analogies	Quick Learning objectiveGeneral English, Functional Eng.For Tech.Stu. Himalaya Pub.(pg no. 57-86)	26/12			
2	31 -5 Jan	2	1 &2	Give One word for, Phrases, Idioms and Proverbs	Quick Learning objectiveGeneral English,Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.41-47,93-103)	4/1			
3	7-11 Jan	2	1	*Functional Grammar* : Active Passive, Narration	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.2-26)	7/1			
4	14-19 Jan	2	1	Functional Grammar : Common Errors	Quick Learning objectiveGeneral English,Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.31-38)	22/1	14/1 Assignment 1		
5	21-25 Jan	2	1	Functional Grammar: Transformation of Sentences	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.108-110,113-129)	24/1			
6	28-2 Feb	Anannya 2019							
7	5Feb-8 Feb	2	3	Formal Correspondence (A): Business Letters(Copmplaint,Notices,Circulars,Memos)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.132-139)	8/2			
8	11-16 Feb	2	3	Formal Correspondence (A): Business Letters(Copmplaint,Notices,Circulars,Memos)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.111-112)	13/2			

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9	18-22 Feb	Sessional I (18 Feb- 22 Feb2019)							
11	25-2 March	2	4	Writing Resume, Interview Technique,E-mail etiquettes	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.pg no.111-112,145-178)				
12	4-9 March	2	4	Formal Correspondence (B): Technical Report writing					
13	11-16 March	2	4	Analytical comprehension: (fictional ,non-fictional unseen text)	Functional Eng.For Tech.Stu. Himalaya Pub.(pg no.180-207)				
14	18-23 March	2	4	Features of Technical and Scientific writing:					
	26-30 March	Sessional 2							

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Faculty In Charge

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CCOEW/CE / 18-19

Date: 17 / 12 / 2018

LESSON & TEACHING PLAN for System Software

Department of Computer Engineering

Faculty Name: Prof. _Abhilasha T. Borkar

Year : 2018-19

Sem:- Vitth

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment,/Tutorial Date	HOD's sign
2	17 Dec-21 Dec	5	1	Components of system software Evolution of system software Language translators,Machine Structure Machine Structure Assembly Language instructions	1) Plan to show them some graphics icon of system softwares and make them to identify it and allow them to write something about it. 2) introducing concept on ppts and on black board	Systems Programming (John Donovan) Ch 01 pg no 1-14, Ch 02 pg no 21,35, 43, Ch 03 pg no. 60-77	LCD, Projector and chalk board and ppt on components of system software by john donvan	17 Dec — 21 Dec		
3	24 Dec- 29 Dec	5	1	Assemblers Design of two pass assembler Single Pass assembler Data structures used for design of assembler Tutorial				24 Dec - 29 Dec		
4	31 Dec- 05 Jan	5	1	Design and Implementation of two pass assembler Symbol Table management Handling constants, literals, labels and Procedures One pass assembler design Cross Assembler	1) Plan to to design structure of assembler by student on black board by giving them instruction with explanantion from other student			31 Dec — 5 Jan		

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	7 Jan-11 Jan	5	2	Macro language Macro processor, Macro instructions Features of macro facility Design of Macroprocessor	1)Plan to Revise the concept of C languange in which Macros was used. Student allow to use macros in program by their own	Systems Programming (John Donovan) pg no 60-77	LCD, Projector and chalk board and ppt on assembler by john donvan	7 Jan - 11 Jan		
6	14 Jan-19 Jan	5	2	One pass macroprocessor Design of two pass macroprocessor Macro within Macro Macro Defining Macro Tutorial				14 Jan 19 Jan		
7	21 Jan-25 Jan	5	2 3	Design of Macroprocessor-macro calls within macro Loader schemes,Complier and go" Loaders general Loader scheme absolute loaders,subroutine linkages relocating loaders		Systems Programming (John Donovan) pg no 111-136	LCD, Projector and chalk board and animated video of shaun micheal stone on memory management	21 Jan - 25 Jan		
Anannya Culturel festival 28 Jan-2 Feb										
8	04 Feb-08 Feb	6	3	Direct linking loaders Overlays, Basic loader function Dynamic Binders Design of an absolute Loaders Tutorial	1) Plan to show them loading procedure by the loader in animated way	Systems Programming (John Donovan) pg no 111-136	LCD, Projector and chalk board and animated video of shaun micheal stone on memory management	4 Feb to 8-Feb		
10	11 Feb-16 Feb	6	3 4	Design of a Direct – Linking loaders Design of a Direct – Linking loaders Numericals based on loaders Numericals based on loaders Basic Compiler Function Compiler Phases	2) plan to show concept of memory management in animated video	Systems Programming (John Donovan) pg no 152-178		11 Feb 16 Feb		

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
18 feb-22 feb Sessional-1										
11	25 Feb-2 Mar	6	4 5	Lexical Analysis – NFA and DFA Intermediate code generation –three address code intermediate code forms Top down v/s bottom up parsing Unix Device Drivers Basic device driver operation Implementation with Line printer	3) Plan to revise the concept of theory of computation and giving them task of design of NFA and DFA		LCD, Projector and chalk board and PPTS on Compiler	22 to 28/2		
12	4 Mar-8 Mar	6	5	Comparison unix Vs Windows (TuTorial) Device Programming Installation and Incorporation of driver routines Basic device driver operation Basic device driver operation (Tutorial)	understanding the concept by device drivers by real time car example showing them differents Parts of car and consider as a device	Systems Programming (John Donovan) pg no 265,279		1/3 to 4/3		
13	11 Mar-16 Mar	6	6	Case study of Intel®64 and IA-32 Processors	plan to give activity as a seminar to understand the concept by giving real time example for each device driver			5/3		
14	18 Mar-22 Mar	5	6	Case study of Intel®64 and IA-32 Processors	case study will perform as a group activity		LCD, Projector and chalk board and PPTS on unix device driver by self made			
15	25 Mar-30 Mar	6	6	Case study of Intel®64 and IA-32 Processors	case study will perform as a group activity	Unix Device drivers by George Pajani		14/3		
1 Apr- 8 Apr Sessional-1										

Faculty in Charge **HOD**

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CCOEW/CE / 18-19

Date: / / 2018

LESSON & TEACHING PLAN for NCT

Department of Computer Engineering

Faculty Name: Prof. Pravin Khawse | Year : 2018-19 | Sem:- IV

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17/12/18-21/12/18	5	I	Cource Outcomes of Subject Numerical Methods, Problem solving & computers Bisection method False Position Method:		Numerical Methods (T Veerarajan) [Ch 3 Page 47-102]		21/12		
2	24/12/18-29/12/18	5		Newton-Raphson Method Simple Iteration method Tutorial				29/12		
3	31/12/18-5/1/19	6	II	**Solution of Simultaneous Equations** Gauss Elimination Method Gauss- Jordan Method		Numerical Methods (T Veerarajan) [Ch4 Page 103-160]		05/01		19/01
4	7/1/19-11/1/19	5		Gauss- Jordan Methods Matrix methods & Inversion method				11/01		
5	14/1/19-19/1/19	5		Interpolation: Lagranges Interpolation Tutorial				19/01		
6	21/1/19-25/1/19	5		**Numerical Integration:** Numerical integration by Trapezoidal Rule				25/01		
7	28/1/19-2/2/19	Anannya-2k19								

Faculty-In Charge

Dr. Milind Khanapurkar, Principal, Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Hingna, Nagpur-441110

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
8	4/2/19-8/2/19	5	III	Numerical integration by Simpson's Rules Numerical integration by Gaussian Quadrature		Numerical Methods (T Veerarajan) [Ch4 Page 269-310]		06/02		
9	11/2/19-16/2/19	6		**Numerical Differentiation:** Numerical Differentiation by Newtons Forward Interpolation Formula Tutorial				12/02	Assign-1 11/02.	19/02
10	18/2/19-22/2/19	**Sessional I**								
11	25/2/19-2/3/19	6		**Correlation & Regression:** Coefficient of correlation, Rank correlation coefficient Curve Fitting: Linear/NonLinear Fit		(D T Deshmukh) [Page 835-890]		01/03.		
12	4/3/19-8/3/19	5		**Sampling, Frequency Distribution:** Various Types of Distributions Measures of central Tendency		Mathematics & Statistics (Ajay Goel)		08/03.	Assign-2	
13	11/3/19-16/3/19	6		Measures of Dispersion Moments Tutorial				16/03		
14	18/3/19-22/3/19	4		Test of significance: Introduction, Need for testing The t-test, Z test		Mathematics & Statistics (Ajay Goel) [Page 786-802]		20/03.		
15	25/3/19-30/3/19	6		The F-test The (chi-square)-test. Tutorial				28/03/19.	Assign-03 28/03	
16	1/4/19-8/4/19	**Sessional II**								

Faculty in Charge

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CCOEW/CE/18-19

Date: 17 / 12 / 2018

LESSON & TEACHING PLAN for STQA

Departmnet of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Session: (2018-19) | Sem:- Eight

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17/12/18-20/12/18	5		Need of testing, Errors, Faults, Defects, failures, Unit Testing,Integration Testing		Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)	Chalk board	18/12/18 19/12/18 20/12/18 21/12/18 24/12/18		
2	24/12/18-29/12/18	5	1	Central issue in Testing,Testing activities,System testing, Objectives of Testing,			PPT Projector	26/12/18 27/12/18 28/12/18 29/12/18		07/01
3	31/12/18-5/1/19	6		V-model,Sources Of information for Test Cases, Monitoring & measuring test execution,	1. Make students Group and give them one object(pen,pencil etc) & student will write test cases		Chalk board	31/12/18 4/1/19 5/1/19 7/1/19		
4	7/1/19-11/1/19	5		Test Tools & Automation, Limitation Of TestingConcept of unit testing, Static unit testing, Defect Preventions,	1.Introduce students one automation tool for testing(ex. WinRunner,QTP 8.2,Loadrunner 8.0)	S/w Testing Concept & Tools by Nageswara Rao Pusuluri	Chalk board video	8/1/19 9/1/19 10/1/19 11/1/19		

Faculty in Charge

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HOD

8	8/2/19	5	III	coverage, Path coverage,Predicate coverage criteria, Generating Test input	&test their basic paths	Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)	board PPT	7|2|19 8|2|19		
9	11/2/19-16/2/19	6		example of Test data selection,Introduction to Data flow testing, Data flow graph, Data flow Testing criteria, Comparison of Data flow Test selection criteria.			Chalk board video	12|2|19 13|2|19 14|2|19 15|2|19 16|2|19	A-II	
10	18/2/19-22/2/19	**Sessional I**								
11	25/2/19-2/3/19	6	IV	System Integration: Introduction,Different types of interfaces & interfaces errors, System integration techniques, Software & Hardware integration		Software Testing & Quality Assurance by	PPT Projectors	22|2|19 23|2|19 25|2|19 26|2|19		

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	4/3/19-8/3/19	5		Test Plan for System integration,Off-the Shelf component integration, Taxonomy of system Test, Basic Test, Functionality test,Robustness Test		Kshirsagar Naik & Priyadarshi Tripathi (Wiley)	Chalk board PPT	27|2|19 28|2|19 1|3|19 2|3|19		
13	11/3/19-16/3/19	6	V	Performance Test,Scalability Test, Stress Test, Load & Reliability Test, Regression test, Documentation test, Test Cases and Necessity of Test Case Documentation		Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)	PPT Projector	4|3|19 5|3|19 6|3|19 7|3|19 8|3|19	A-III	
14	18/3/19-22/3/19	4		Functional specification based Test Case Design, Use Cases based Test Case Design, Application based Test cases Design, Levels of Test Execution, Acceptance criteria			PPT Projector video	9|3|19 11|3|19 12|3|19 13|3|19 14|3|19		
15	25/3/19-30/3/19	6	VI	Selection of acceptance criteria, Acceptance Test Plan, Acceptance test execution, Acceptance Test report,Fine views of software Quality, ISO 9126, ISO 9000:2000 software quality Standard		Software Testing & Quality Assurance by Kshirsagar Naik & Priyadarshi Tripathi (Wiley)	PPT Projector	15|3|19 16|3|19 18|3|19 20|3|19		
16	1/4/19-8/4/19	**Sessional II**								

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CCOEW/CE/ 18-19

Date: 17/12/2018

LESSON & TEACHING PLAN for EXPERT SYSTEM DESIGN

Department of Computer Engineering

Faculty Name: Prof. Shailesh C. Sahu | **Year : 2018-19** | **Sem:- 8th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	17/12/18 21/12/18	5	1	Expert system & AI, Expert System characteristics.		Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems (2-12)"	ppt	21/12	—	
2	24/12/18 29/12/18	6	1	Expert System Structure,Heuristic Reasoning,User Interface. Tutorial.			ppt	29/12	(1)	
3	31/12/18 05/01/19	6	2	Logic and Resolution: propositional logic, first order predicate logic.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems (16-43)"	ppt	05/01	—	
4	07/01/19 11/01/19	5	2	causal logic form of logic, resolution and propositional logic.Tutorial.			ppt	11/01	11/01/19	
5	14/01/19 19/01/19	6	3	Production Rules and Inference: Knowledge representation in a production system.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems (78-131)"	video	25/01	—	
6	21/01/19 25/01/19	5	3	Inference in a production system,Pattern recognition,production rules.			video	08/02	(2)	
28/01/19 to 02/02/19				**Anannya cultural Festival& Alumnae meet**						
7	04/02/19 08/02/19	5	3	Production rules as a representation formalism, Tutorial.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems (142-202)"	video	15/02	15/02/19	
8	11/02/19 16/02/19	6	4	Frames and Inheritance: Semantic nets, Frames and single inheritance: tree like frame taxonomies, File Merging :Sorting of large files on disks.			ppt	16/02	—	
18/02/19 to 23/02/19				**Sessional I**						

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
9	25/02/19 02/03/19	6	4	Exceptions inheritance and attribute facts, Frames and multiple inheritance, frames as a representation formalism.Tutorial.			video	09/03/19	09/3/19	
10	05/03/19 08/03/19	4	5	Reasoning with Uncertainty: Production rules,inference and uncertainty, probability theory: the probability function,conditional probabilities.		"Peteer J.F. Lucas and Linda C. Van Der Gaag, "Priniplces of Expert Systems (208-255)"	ppt	13/03/19	—	
12	11/03/19 16/03/19	6	5	Bayes' theorem, application in rule based expert system, The subjective Baysian method, the certainty factor model, Dempster-Shafer theory, Network model. Tutorial.			ppt	16/03/19	16/03/19	29/03
13	18/03/19 22/03/19	4	6	History of artificial neural networks,Neural information processing, hybrid intelligence, basic concept of neural network.		Limin Fu, " Neural Networks in Computer Intelligence"	ppt	18/03/19	—	
14	25/03/19 30/03/19	6	6	biological neural system, single layer perceptrons, multilayer perceptrons, supervised and unsupervised learning, neural network learning.Tutorial.			ppt	20/03/19	20/3/19	
01/04/19 to 08/04/19				**Sessional II**						

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Sharpening Engineering Acumen with a difference

Cummins COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

CCOEW/CE/ 18-19

Date: 17/12/2018

LESSON & TEACHING PLAN for UNIX AND SHEEL PROGRAMMIN

Department of Computer Engineering

Faculty Name: Prof. Shailesh C. Sahu | **Year : 2018-19** | **Sem:- 8th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	17/12/18 21/12/18	5	1	General Overview of the system: System Structure (Architecture of UNIX Systems). User Perspective (The file system, Processing Environment.)	[1]	The Design of Unix Operating System by- M.J Bach (4-36)	ppt	21/12		
2	24/12/18 29/12/18	6	1	(Building Block Primitives),Operating systems services.Assumption about hardware (Interrupts and Exceptions, Processor Execution Levels, Memory Management).	[2]		ppt	29/12	1	
3	31/12/18 05/01/19	6	1	Introduction to kernel: Architecture of the UNIX Operating System (Block Diagram of the system Kernel). Tutorial.			ppt	05/02		
4	07/01/19 11/01/19	5	2	Introduction to system Concepts (An Overview of the File Subsystem,Processes-State and Transitions). Kernel data structures,System administration.	[3]	The Design of Unix Operating System by- M.J Bach (38-56)	ppt	11/01		

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CCOEW/CE / 18-19

Date: 10 /12 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vidya S. Raut	Subject:Wireless Communication and Mobile Computing	Department: Computer Engineering	SEM : 8thSemCE(2018-19)

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	17/12/2018 to 21/12/2018	5	1	**WIRELESS COOMUNICATION:** Introduction to Wireless communication, Radio Frequencies,Objectives, Tutorial.		Wirless Communication Second Edition by Theodore S . Rappaport Page No 57 to 93 and 551 to 563 https://www.tutorialspoint.com/gsm/index.htm Mobile Communication- Jochen Schiller, Adison Wesley, 2000 Page No 93 to 130 and 72to 89 Page No 201 to 269 Wirless Communication Second Edition by Theodore S . Rappaport Page No 449 to 463	https://nptel.ac.in/courses/117102062/	19/12 20/12 21/12 26/12		
2	24/12/2018 to 29/12/2018	5		The cellular Concept, System design & fundamentals, Frequency reuse, Channel Assignment & handoff strategies, Tutorial.	Activity 1.1:		https://www.youtube.com/watch?v=J8LOkgS17oY	28/12 28/12 29/12 31/12 1/1 2/1		
3	31/12/2018 to 5/1/2019	6		Adjacent Channel interference, cell splitting, Sectoring. Tutorial .			https://nptel.ac.in/courses/117102062/6	3/1/19 4/1/19 5/1/19	Tu: 5/1	
4	7/1/2019 to 11/1/2019	5	2	**INTRODUCTION TO GSM:** Architecture, Radio Subsystem, Channel types, Gsm frames Structure ,Tutorial			https://nptel.ac.in/courses/117102062/37	7/1/19 8/1/19 9/1/19 10/1/19 11/1		
5	15/1/2019 to 19/1/2019	5		SDMA-FDMA-TDMA-CDMA, Cellular wireless networks, Wireless LAN-IEEE 802.11 standards: Architecture ,services, Tutorial	Activity 2.1 :			16/17 19/19/19. 21/1	T: 21/1	
6	21/1/2019 to 25/1/2019	5		MANET: Wifi& Wimax, Wireless local loop, routing,HIPERLAN, Bluetooth. Tutorial			PPT	22/1 24,24/1 25/1	Assg 1 25/1	
7	28/1/2019 to 2/2/2019	6	**Ananya Cultural Program**							

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8	8/2/2019	5	3	routing protocols:- DSR,AODV,	Activity 3.1 :			6/2 7/2 8/11/12		
9	11/2/2019 to 16/2/2019	6		reactive routing- Location Aided routing- Mobility models- Entity based-group mobility-Random ways point mobility model.			PPT	13/2 14/15/2 15/2 16/2 16/2		
10	18/02/19-23/02/19			**Sessional I**						
11	25/2/2019 to 2/3/2019	6	4	**MOBILENETWORKS LAYER:** Mobile IP, dynamic host, configuration protocols, Adhoc Networks.Tutorial	Activity 4.1:	Mobile Communication- Jochen Schiller, Adison Wesley, 2000 Page No 303 to 343 Page No 351 to 355	PPT	25/2 28/2		
12	4/3/2019 to 9/3/2019	6		MOBILE TRANSPORT LAYER: Traditional TCP, Indirect TCP, Snooping TCP, Mobile -TCP, Transaction oriented TCP.Tutorial			PPT	27/2 28/2 1/3,4/3	T: 4/3.	
13	11/3/2019 to 16/3/2019	6	5	**MOBILE NETWORKS:** Issues & challenges- Security issues, Authentication in Mobile application, privacy issues, power management, Energy awareness computing, Tutorial Mobile IP&Adhoc Network -VOIP application.Tutorial	Activity 5.1:		PPT	5/3 6/3 7/3 8/3 9/3	Assg 2	
14	18/3/2019 to 23/3/2019	6	6	**PROTOCOLS & TOOLS:** Wireless Application protocol-WAP: Introduction of WAP,architecture, treatment of protocols. Bluetooth: User Scenarios, physical layer, MAC layer,Networking security, Link management & J2ME.Tutorial	Activity 6.1:		PPT	11/3 12/3 13/3 14/3	Assg 3	
15	25/3/2019 to 30/3/2019			**Sessional II**						

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Date: / / 2018

CCOEW/CE / 18-19

LESSON & TEACHING PLAN for Concpets In Computrer Engineering

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar | Subject:-RTS | Year : 2018-19 | Sem:- 8'th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	17Dec - 21Dec	5	1	Definition of RTS, Issues in real time computing	Give task to find out problem defination/ problems related with real time system	Real Time system by C.M.Mishra pg-no1,3,4,7,10	Related topics pdf & ppt will show	17/12/18		
				Digital Control, Signal Processing				18/12/18		
				Characterizing RTS.				19/12/18		
2	2417 Dec-29Dec	5		Performance measures of RTS- properties of performance measure,		Pg-no 13,15		20/12/18		
				Performability		pg-no 19		21/12/18		
				cost function and hard deadline - Estimating program real time		pg-no 23,25, 26		24/12/18		
				Analysis of source code, pipelining, dependencies.				26/12/18		
								27/12/18		
3	31Dec-5 Jan	5	2	Task Assignment and scheduling Types of tasks,	Given small case studies on different topics	pg-no 40 to 44		28/12/18		
				Timings, precedence, resource const				29/12/18		
								2/1/19		
4	7 Jan-11 Jan	5		classification of scheduling algorithms, priority driven approach for periodic and aperiodic task,		pg-no 45 to 48	Related topics pdf & ppt will show	3/1/19		
				Non preemptive method(EDD), preemptive methods(EDF and LST), Rate		Internet and notes		4/1/19		
				EDF and its variants for periodic tasks, Resource and resource access scheduling		pg-no 113-117		5/1/19		
5	14 jan-19 Jan	5		blocking and priority inversion, priority ir		Internet and notes	Related topics pdf & ppt will show	7/1/19		
								8/1/19		
								9/1/19		
								10/1/19		
								11/1/19		
								14/1/19		
								17/1/19		
								19/1/19		
								21/1/19		
								22/1/19		

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Lab Practicals Plan Sem. VI

Date: 17/12/201

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pratik Hepat | **Subject: DAA** | **for** | **Department: Computer E**

		Batch B1			Batch B2			Batch B3		
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done
print	print	print	fill	fill	print	fill	fill	print	fill	fill
P1	Implement sorting a list of number using following : selection sort , bubble sort , heap sort.	21/12/18	29/12		20/12/18	27/12		18/1/2018	18/12	
P2	write a program to implement binary search for minimum and maximum in a list using divide and conquer strategy.	28/12/18	3/01		27/12/18	7/1		1/1/2019	4/1	
P3	Find minimum cost spanning tree using prims algorithm.	4/1/2019	10/1		3/1/2019	21/01		8/1/2019	11/1	
P4	Find minimum cost spanning tree using krushkal algorithm.	11/1/2019	8/2		10/1/2019	5/2		15/1/2019	17/1	
P5	Implement a given vertex in weighted connected graph . Find shortest path to other vertices using Dijikstra's algorithm.	18/1/2019	15/2		17/1/2019	14/2		22/1/2019	12/2	
P6	Implement binary search algorithm to find key in the array.	25/1/2019	22/2		24/1/2019	18/2		5/2/2019	23/2	

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P7	Implement BFS algorithm	8/2/2019	01/03		7/2/2019	09/03		12/2/2019	13/03		
P8	Implement DFS algorithm	15/2/2019	01/03		14/2/2019	09/03		26/2/2019	13/03		
P9	Implement N-queens problem using backtracking	1/3/2019	08/03		28/2/2019	16/03		5/3/2019	20/03		
P10	Find a subset of a given set S={S1,S2,....Sn} of n positive integer who is equal to a given positive integer d.	8/3/2019	15/03		7/3/2019	16/03		12/3/2019	20/03.		

HOD **Subject**

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Lab Practicals Plan Sem. VI

Date: 17/12

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Suruchi Kitey | **Subject: SEPM** | **for** | **Department: Computer Engineering**

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of	Planned Date	Perform Date	No. of Viva	Planned Date	Perform Date	No. of Viva	HoD's Remark
print	print	print	fill	fill	print	fill	fill	print	fill	fill	fill
P1	Introduction to rational rose software	18/12/18	18|12|18		21/12/18	18|12|18		20/12/18	20|12|18		
P2	To perform user's view analysis: Use case diagram	1/1/2019	21|12|18		28/12/18	21|12|18		27/12/18	8|1|19		
P3(A)	To draw structural view diagram: Class diagram,object diagram	8/1/2019	10|1|19		4/1/2019	28|12|18		3/1/2019	22|1|19		
(B)	To draw structural view diagram: Class diagram,object diagram using	15/1/19	10|1|19		11/1/2019	28|12|18		10/1/2019	22|1|19		
P4	To draw the behavioral view diagram: Sequence diagram	22/1/19	17|1|19		18/1/19	11|1|19		17/1/19	5|2|19		
P5	To draw the behavioral view diagram: Collaboration diagram	5/2/2019	7|2|19		25/1/19	8|2|19		24/1/19	5|2|19		
P6	To draw the behavioral view diagram: State chart diagram	12|2|19 #######	12|2|19		8/2/2019	15|2|19		7/2/2019	12|2|19		
P7	To draw the behavioral view diagram: Activity diagram	26/2/19	26|2|19		15/2/19	1|3|19		14/2/19	28|2|19		
P8	To draw implementation view diagram: Component diagram	5/3/2019	5|3|19		1/3/2019	8|3|19		28/2/19	7|3|19		
P9	To draw enviromental view diagram: Deployment diagram	#######	12|3|19		8/3/2019	15|3|19		7/3/2019	14|3		
P10	To draw swimlane diagram	19|3|19	19|3|19		15|3|19	15|3|19		14|3|19	14|3		

18/12

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Lab Practicals Plan Sem. IV

CCOEW/CE / 18-19

Date: 10 /12 / 2018

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Vidya S Raut	Subject: Object Oriented Methodlogy	for	Department: Computer Engineering	Sem:4th CE

Pi	Name of experiment		Batch B3			Batch B2			Batch B1			HoD's Remark
			Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	
print	print	possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	fill
1	Study the basic concept of Object Oriented Programming language.	Study about basic concepts C languges, ie variables , functions.	17/12/18	31/12	7	20/12/18	20/12		21/12/18	20/12		
2	Write a simple C++ program to read and display the information, by using simple main function, and implement the same by using the concept of class and object.	Program using simple function in main and class Employee and Class Rectangle , Account class.	24/12/18 07/01/19	7/1/19	14	27/12/18 3/1/2019	27/12 3/1		28/12/18 4/1/2019	27/12 4/1		
3	Write a C++ program by using default and parameterized constructer.	Program for Person and Book constructer using default and parameterized constructer.	14/1/19 21/1/`19	14/1/19		10/1/2019 17/1/19	10/1 17/1		11/1/2019 18/1/19	11/1 18/1		
4	Write a C++ program using the concept of function overloading.	Program for to print absolute value and print different data type values.	4/2/19 11/2/2019	11/2/19		24/1/19 7/2/2019	7/2		25/1/19 8/2/2019	8/2		
5	Write a C++ program using the concept of operator overloading.	Program to overloading '+' Operator to add two time object. And to concatenate two strings	25/2/19	25/2/19		14/2/19	14/2		15/2/19	15/2		
6	Write a C++ program using the concept of inheritance..	Program on different types of inheritance.	4/3/2019	4/3		28/2/19	28/2		21/2/2019	22/2		
7	Write a C++ program to implement the concept of Abstract class.	Program to implement abstract class Vehicle.	11/3/2019	11/3		7/3/2019	7/3		1/3/2019	1/3		
8	Write a C++ program to implement the concept of Exception Handling.	Program on different types of Exception.	18/3	18/3		14/3/19	14/3		15/3/19	15/3		

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CCOEW/CE / 18-19

Date: 15 /06 / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. ____Vidya S. Raut_____ | Subject: ICN | SEM : 3rd_CE_ (2018-19) | Sem:-

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18/06/18-22/06/18	4	1	Introduction about Subject,Data and Signal,Bandwidth,Data Communication – Components, Data Representation, Data Flow,Tutorial	Activity 1.1: Showing Communication Components in Lab Activity 1.2: Picture Prompt	Data Communications and Networking by Behrouz A Forouzan Pg. no.3 ,29-50,89 Computer Network By Andrew S. Tanenbaum Pg No. 3-237	https://youtu.be/iV-YqG70wbQ from KhanAcademy https://youtu.be/tJW_a6JeXD8 https://youtu.be/-_xZZt99MzY	20/6/18 21/6 21/6 22/6.	T. 22/6	
2	25/06/18-30/06/18	5		Networks –Network Criteria, Physical Structure (Types of Connection, Physical Topology),Categories of Network (LAN,WAN, MAN), Interconnection of Network, Internet, Protocols and Standards, Network Model – Layered Tasks, Tutorial	Activity 1.3 : Showing LAN Network and Topology in Lab.		https://www.slideshare.net/shafaan/chapter-1-introduction-to-data-communication-and-networks	22/6 25/6 26/6 27/6 28/6 29/6 30/6	T: 30/6	10/07
3	02/07/18-07/07/18	5		The OSI Reference Model, Introduction to TCP/IP Protocol Suite,Addressing – Physical, Logical,Specific Port Addressing ,Specific Addressing ,Tutorial	Activity 1.4 :Drawing Competition Activity 1.5 Knowledge Probe		1. LAN MAN WAN.pdf by Version 2. CSE IIT, Kharagpur OSI Layering.pdf	3/7 4/7 5/7		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
9	13/08/18-18/08/18	4	3	Selective Repeat ARQ Multiple Access Control,Random Access Protocols (ALOHA, CSMA, CSMA/CD, CSMA/CA) IEEE Standard 802 for LAN – 802.3,802.4, 802.5 Tutorial	Activity 3.2: Knowledge Probe	370,373,377, 395	PDF File of ,Indian Institute of Technology Madras. Prof. Hema A Murthy	19/8 20/8 21/8 21/8	T: 21/8	
10	20/08/18-24/08/18	3	4	**Network Layer:** Need for Network Layer, Internet as a Datagram Network,Logical Addressing, Classfull Addressing in IPv4,Tutorial	Activity 4.1: Problem solving Practice in group.	Data Communications and Networking by Behrouz A Forouzan Pg. No. 549	PDF File of, Indian Institute of Technology Madras	24/8 27/8 28/8 28/8	T: 24/8	
11	27/08/18-01/09/18	5		Routing – Routing Algorithm Distance Vector Routing, Link State Routing ,Congestion and Congestion Control Open Loop, Closed Loop Tutorial	Activity 4.2: Knowledge Probe		PDF File of, Indian Institute of Technology Madras	28/8 29/8 30/8 1/9		
12	03/09/18-07/09/18	4	5	**Transport Layer:** Objectives of Transport Layer Process to Process Delivery Addressing IANA Ranges, Socket Addresses	Activity 5.1: Problem solving Practice in group.	Data Communications and Networking by Behrouz A Forouzan Pg. No. 799	PDF File of, Indian Institute of Technology Madras	4/9 6/9 7/9 11/9	Assg No 2	1/9/09
13	10/09/18-15/09/18	4		Multiplexing and De – multiplexing Reliable and Unreliable Services Quality of Service Traffic Shaping policies Tutorial	Activity 5.2: Knowledge Probe	Data Communications and Networking by Behrouz A Forouzan Pg. No. 549 TCP/IP Protocol	PDF File of, Indian Institute of Technology Madras	12/9 14/9 17/9 18/9	T:18/9	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	09/07/18-13/07/18	4	2	**Physical Layer:** Physical Layer Objectives,Transmission Media – Wired and Wireless,Switching – Circuit switching Network,Tutorial	Activity 2.1: Playing a card game to explain switching techniques	Data Communications and Networking by Behrouz A Forouzan Pg. no.101-129,141-155	https://www.slideshare.net/mukeshnt/chap-8-switching https://www.slideshare.net/mehmood3182/chapte	10/7 11/7 12/7	T: 12/7	
							https://www.slideshare.net/waqas1234/lecture3-physical-layer-presentation			
5	16/07/18-21/07/18	5		Datagram Network,Virtual Circuit Network,Digital Transmission, Digital to Digital Conversion, Tutorial	Activity 2.2: Problem solving Practice in group.		https://www.slideshare.net/WayneJonesJnr/chapter-4-digital-transmission	13/7 17/7 18/7 19/7 20		21/08
6	24/07/18-27/07/18	3		Analog to Digital Conversion, Analog Transmission, Digital to Analog Conversion ,Analog To Analog Conversion,Tutorial	Activity 2.3: Problem solving Practice in group. Activity 2.4 Knowledge Probe		https://www.slideshare.net/AhmarShoebHashmi/05-analog-transmission	24/7 26/7 27/7 31/7	Assig No: 01. 30/7/18	
7	30/07/18-04/08/18	5	3	**Data Link Layer:** Design Issues of Data Link Layer,Framing, Logical Link Control Protocols for Noiseless Channel (Simplest, Stop-and-Wait), Protocols for Noisy Channel Stop-and-Wait ARQ, Go-Back-N ARQ	Activity 3.1: Problem solving Practice in group.	Data Communications and Networking by Behrouz A Forouzan Pg. no 307,312,318,324,332	PDF File of Indian Institute of Technology Madras. Prof. Hema A Murthy	1/8 2/8 3/8 4/8 13/8 14/8 16/8,17/8	T: 17/8	
8	06/08/18-10/08/18			**Sessional I**						

Faculty in Charge

Dr. Milind Khanapurkar
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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
14	17/09/18-21/09/18	4	6	**User Support Layers – Session, Presentation, Application Session Layer** – Introduction Presentation Layer – Data Compression Network Security and Privacy – Introduction to Cryptography(Symmetric and Asymmetric), Digital Signature Authentication (Message and Entity) Application Layer – Domain Name System, Electronic Mail, Architecture of Browser Tutorial	Activity 6.1: Knowledge Probe	Data Communications and Networking by Behrouz A Forouzan Pg. No. 799	PDF File of, Indian Institute of Technology Madras	22/9 22/9 24/9 24/9	Assg 3 21/9/18.	
15	**25/09/18- 29/09/18**			**Sessional II**						

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Faculty in Charge

HOD

CCOEW/CE / 18-19

Date: 25 / 06 / 2018

LESSON & TEACHING PLAN for Concpets In Computrer Engineering

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar | Year : 2018-19 | Sem:- 3'rd

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	25 June-30 june	5	1	Introduction of Subject				25/6/18		
				Description of computer input units other input methods	collect info about more devices & MCQ	VR-Chpt3-pg-31-35	Images of i/p and o/p devices shown	25/6/18		
								27/6/18		
				computer output units,types of printer,plotter		VR-Chpt3-pg-36	Images of printers shown	28/6/18		
						VR-Chpt3-pg-39-		23/6/18		
2	July-7 July	5		types of printer,plotter	demo given in CC lab with the help of Gupta Sir.	VR-Chpt3-pg-42		30/6/18		
				Memory cell, memory organization,		VR-Chpt4-pg-46-51	Related topics pdf & ppt will show	2/7/18		
								3/7/18		
				read only memory,Serial access memory		VR-Chpt4-pg-51		4/7/18		
								5/7/18		21/07
3	9 July-14 July	5		physical devices used to construct memory i)semiconductor flip-flop	demo given in CC lab with the help of Gupta Sir.	VR-Chpt4-pg-55-61	Images of disk,CD-rom devices shown	9/7/18		
				Magnetic Hard Disk ,floppy disk		VR-Chpt4-pg-		9/7/18		
				compact disk read only memory		VR-Chpt4-pg-67	Related topics pdf & ppt will show	10/7/18		
				magnetic tape drives,DVD		VR-Chpt4-pg-		11/7/18		
4	16 July-21 July	5		First generation computers	to collect information about it.	VR-Chpt12-pg-250	Images of each generation of computer and its details shown on ppt.	16/7/18		
				second generation computers,		VR-Chpt12-pg-251		17/7/18		
				third generation computers,		VR-Chpt12-pg-252		18/7/18		
				fourth & fifth generation ,computers		VR-Chpt12-pg-253		19/7/18		
				Moore's Law		VR-Chpt12-pg-256		21/7/18		

Faculty in Charge

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Hingna, Nagpur-441110.

HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's Sign
5	23July-27 July	4	2	classification of computers	MCQ's	VR-Chpt12-pg-258-260	Related topics pdf & ppt will show	24/7/18		
				parallel computers distributed computer system		VR-Chpt12-pg-261		25/7/18	SA assigned	
								26/7/18		
6	30 July-4 Aug	5		Structure of instructions	Task given to write instruction	VR-Chpt5-pg-78	Related topics pdf & ppt will show	30/7/18		
				Description of processor		VR-Chpt5-pg-82		31/7/18		
				a machine language program		VR-Chpt5-pg-86		1/8/18		20/08
								2/8/18		
			3	Algorithms, Flowchart		VR-Chpt1-pg-2-8		3/8/18		
7	6 Aug-10 Aug			**Sessional I**				6/8/18		
8	13 Aug-18 aug	5	3	Why programming languages,	to collect information about it.	VR-pg-170 EB-333	Related topics pdf & ppt & Videos will show	7/8/18		
				Generation of Programming		EB-Chpt13-pg-336		8/8/18		
				2'nd generation of language		EB-Chpt13-pg-337		9/8/18		
				3'rd generation of language		EB-Chpt13-pg-338		10/8/18		
				4'th & 5'th generation of language		EB-Chpt13-pg-339		13/8/18		
9	20 Aug-25 Aug	4		Characteristics of good programming	Task given to write program	EB-Chpt13-pg-340		14/8/18		
				Factors affecting the choice of languages		EB-Chpt13-pg-347		15/8/18	2nd assign	
				developing a program		EB-Chpt13-pg-349-352		16/8/18		
				Introduction HTML, Python		Internet		17/8/18		
10	27 Aug-1 Sept	5	4	troduction, Types of Computer Softwa	MCQ's	EB-Chpt10-pg-214		20/8/18		
				System Management Programs		EB-Chpt10-pg-215		21/8/18		26/08
				System Development Programs		EB-Chpt10-pg-217,219		22/8/18		
				Unique Application Programs		EB-Chpt10-pg-224		23/8/18		
11	3 Sept-9 Sept	5		Problem Solving		EB-Chpt10-pg-228		24/8/18		
				tructuring the logic, using the Compute		EB-Chpt10-pg-228		27/8/18		
				Need of operating system		VR-Chpt10-pg-196		28/8/18		
								29/8/18		
								31/8/18		
								1/9/18		
								1/9/18		
								3/9/18		

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no, Page no,edition, No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	10 Sept-15 Sept	5	5	types of operating systems	collect info about more devices & MCQ	EB-Chpt11-pg-254 & VR-Chpt10-pg-		4/9/18		
				history & Open source software		open source technology by K.Vadhera pg-1,9,12,13,16,20,36,107 and internet		6/9/18		
				Free software & Free software license				6/9/18		
				Proprietary Vs. Open source Licensing				11/9/18		
				FOSS, GNU project.				11/9/18		
13	17Sept-21 Sept	5	6	Representation of Image & moving		VR-Chpt16-pg-372		12/9/18	22 assignment	
				Compression of video data, MPEG		VR-Chpt16-pg-374		12/9/18		
				Acquiring and storing audio signals,		VR-Chpt16-pg-377		14/9/18		
				Compression of audio signals,		VR-Chpt16-pg-378		17/9/18		
				Audio signalprocessing & speech		VR-Chpt16-pg-378		18/9/18		
14	25 Sept-29 Sept			Sessional II				19/9/18		

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Faculty In Charge

HOD

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Lab Practicals Plan Sem. III

Date: 25 /06 /18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. S.Khamankar	Subject: C-Lab- I		for	Department:CE		Section: 3'rd Sem			
	Batch B1(Thursday)			Batch B2(wednesday)			Batch B3(Friday)			
Pi / Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print / possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	fill
1 To demonstrate HTML with different html tags	28/6/18	28/6/18	–	27/6/18	27/6/18	–	29/6/18	29/6/18	–	
2 To demonstrate HTML with setting color	5/7/2018	5/7/18	6	4/7/2018	4/7/18	10	6/7/2018	20/7/18	11	
3 To demonstrate HTML by Ordered List	12/7/2018	12/7/18	8	18/7/18	11/7/18	15	13/7/18	20/7/18	12	
4 To demonstrate HTML by Tables	19/7/18	19/7/18	8	25/7/18	18/7/18	14	20/7/18	17/8/18	7	
5 To demonstrate HTML by image as background	26/7/18	26/7/18	12	1/8/2018	20/7/18	16	27/7/18	17/8/18	12	
6 To demonstrate HTML by hyperlinks	2/8/2018	2/8/18	12	29/8/18	1/8/18	15	3/8/2018	24/8/18	8	
7 Write a program to demonstrate "Website Login Form" in HTML	16/8/18	16/8/18	10	5/9/2018	29/8/18	8	17/8/18	31/8/18	7	
8 Create a Web page having Main Frame along with three Sub Frames(Windows)	23/8/18	23/8/18		########	12/9/18	29/8/18	10	24/8/18	31/8/18	5
9 Develop a web page to play video file using <Embed> Tag.	30/8/18	6/9/18		19/9/18	5/9/18	12	31/8/18	14/9/18	3	
10 To DemonstrateHTML document by using CSS	6/9/2018	17/9/18		26/9/18	12/9/18	9	7/9/2018	14/9/18	3	

Subject-Teacher

HOD

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CCOEW/CE / 18-19

Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin Gorantiwar | Subject: Applied Maths III | SEM III C.E. (2018-19) | Sem:- ODD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 June-23 June	5	IV	MATRICES **Linear Transformations, Orthogonal Transformations.Linear dependence of vectors,Characteristics equation. Eigen values and Eigen vectors.Reduction to Diagonal form**	**Dividing students into group and Solving different example**	**Engineering Mathematics Shobhane & Tembhekar 2.41 to 2.59**	Using PPT Diagonalisation of matrix	27/06/18		07/07
2	25 June-30 June	6	VI	Cayley Hamilton Theorem [without proof],Reduction of Quadratic form to Canonical form by Orthogonal transformation, Sylvester's theorem [without proof],	Dividing students into group and Solving different example	Engineering Mathematics Shobhane & Tembhekar 2.70 to 2.72	Steps to find out Caley Hamilton Theorem using animated video	05/07/18		
3	**02 July-07 July**	6	**VI**	**Solution of Second Order Linear Differential Equation with Constant Coefficients by Matrix method. Largest Eigen value and Eigen vector by Iteration method.**	**Solving example**	**Engineering Mathematics Shobhane & Tembhekar 2.73 to 2.81**	———	13/07/18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	09 July-14 July	5	II	**FOURIER TRANSFORM : Definition and Properties (excluding FFT), Fourier Integral Theorem. Relation with Laplace Transform.Applications of Fourier Transform to Solve Integral Equation.**	**Solving example**	**Higher Engineering Mathematics B.S. Grewal 836 to 851**	**Application of fourier transform using Video**	20/07/18		23/07
5	16 July-21 July	6	III	Z-TRANSFORM **Definition, Convergence of Z-transform and Properties, Inverse Z-transform by Partial Fraction Method**	Solving example	Higher **Engineering Mathematics B.S. Grewal 866 to 885**	**PPT used for Z transform and inverse formulae**	~~27/07~~ 30/07		
6	23 July-28 July	5	III	Power Series Expansion, **Convolution of two sequences.Solution of Difference Equations with Constant Coefficients by Z-transform method.**	Solving example	**Higher Engineering Mathematics B.S. Grewal 866 to 885**	**Steps to find out inverse Z transform using animated video**	02/08		18/08
7	30 July-04 Aug	6	III	THEORY OF PROBABILITY Axioms of Probability , Baye's Rule,Random variables,Discrete Random variables,Continuous random variables	Solving example	Engineering Mathematics Shobhane & Tembhekar 11.1 to 11.8	PPT used for Random variable and Using video explaining Bay's rule	16/08		
8	06 Aug-11 Aug	Sessional I								
8	13 Aug-18 Aug	4	IV	**Probability function,Distribution function,Joint distributions,Independent Random Variables,Conditional Distributions**	**Solving example**	**Engineering Mathematics Shobhane & Tembhekar 11.8 to 11.38**	———	23/08		

Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/T utorial Date	HOD's sign
10	20 Aug-25 Aug	4	V	**MATHEMATICAL EXPECTATION & STOCHASTIC PROCESS** Mathematical Expectation , Variance,Standard Deviation	Solving example	Engineering Mathematics Shobhane & Tembhekar 12.1 to 12.8	PPT used for mathematical exceptation and Using video explaining mean and variance	27/08		
11	27 Aug-01 Sept	5	V	Moments,Moment generating function,Covariance & Correlation Coefficient,Conditional expectation,Stochastic process,Bernoulli and Poisson process	Solving example	Engineering Mathematics Shobhane & Tembhekar 12.8 to 12.25	PPT	03/09		08/09
12	03 Sept-08 Sept	5	I	Laplace Transform Introduction , Defination, L- T of some elementary function Change of scale property,Properties of L-T, Shifting property,L-T of derivative, L-T of integrals,	Solving example	Engineering Mathematics Shobhane & Tembhekar 4.1 to 4.7	PPT/video used for properties	17/09		
13	10 Sept-15 Sept			multiplication by t,Division by t,Laplace of periodic function, Method of partial fraction, convolution theorem(Statement Only),(statement only)	Solving example	Engineering Mathematics Shobhane & Tembhekar 4.8 to 4.25	PPT/video used for finding inverse by convolution theorem	17/09		22/09
14	17 Sept-22 Sept	6	I	L.T.Inverse Using properties and standard result finding ,Unit Step Function ,L-T of Periodic Functions ,Application of L.T to solve differential equations ,Integral equation Simultaneous Differential Equations,Integro-Differential Equations.	Solving example	Engineering Mathematics Shobhane & Tembhekar 4.33 to 4.55	PPT used for unit step function	21/09		
12	25 Sept-29 Sept			**Sessional II**						

Faculty in Charge SP

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HOD SDL

CCOEW/CE/ 18-19

Date: 18/06/2018

LESSON & TEACHING PLAN for Digital Electronics

Department of Computer Engineering

Faculty Name: Prof. Shailesh C. Sahu | **Year : 2018-19** | **Sem:- 3rd**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	18 June - 23 June	**Project Oriented Traing Program**								
2	25 June - 30 June	6	1	Analog V/S, Digital Systems, Transistors as Switch, Boolean Algebra, Boolean identities. Tutorial.	[1][2][3]	Modern Digital Electronics by R P Jain, chap-1,15-18	web	4/7	4/7	
3	02 July - 07 July	6	1	Logic problems, Binary, Gray, Octal, Hex, and ASCII Codes, Logic gates, and Truth Tables. Tutorial.	[4]	Modern Digital Electronics by R P Jain, chap-2,28-53	web	10/7	10/7	
4	09 July - 14 July	5	1	D Morgan's Law's , Sum of Product and Product of Sum. Logic families: TTL, BCL, CMDS etc, Fan-in, Fan-out, propagation delay properties. Tutorial.	[5]	Modern Digital Electronics by R P Jain, chap-4,125-145	web PPT/ Projector	17/7	17/7	20/07
5	16 July - 21 July	6	2	Combinational logic – concepts, SSI, MSI & VLSI circuits Classification. Tutorial.	—	Modern Digital Electronics by R P Jain, chap-5,165-192	web PPT	25/7	25/7	

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
14	17 Sept-21 Sept	4	6	Arithmetic Circuits – Adders, sub tractors, (Half & Full). BCD adder / sub tractor, Concept of ALU and its design. Integrated circuits version of multivibrators and their design parameters.Tutorial.	[10]	Modern Digital Electronics by R P Jain, chap-6,246-252	ppt web project		2	
15	Sessional II (24 Sept- 29 Sept)									

ABL
1) Transistor as switch.
2) First generation of IC
3) Binary Number system.
4) Boolean algebra.
5) 2's complement.
6) Encoder-decoder
7) BCD to 7 segment display.
8) Flip flop
9) Shift Registers.
10) Adder-substractor.

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
6	23 July - 28 July	5	2	standard TTL, CMGS, characteristics, Decoders, Encoders. Multiplexers, Demultiplexers. Tutorial.	[63]	Modern Digital Electronics by R P Jain, chap-6,231-238	PPT web Projector	18/8	18/8	Logging.
7	30 July - 04 Aug	6	2	code converters, characteristics of display devices, standard configuration of gates as SI/MSI/LSI circuits. Tutorial.	[73]	Modern Digital Electronics by R P Jain, chap-6,256-268	PPT web projector	30/8	30/8 (T)	18/8
8	**Sessional I (06 Aug- 10Aug)**									
9	13 Aug- 18Aug	5	3	K- Map, simplification of sum of products and products of sum. solution to problems using K-Map. Tutorial.	—	Modern Digital Electronics by R P Jain, chap-5,173-192	web	05/09	6/9	Logging
10	20 Aug- 24Aug	4	3	conversion of Decoders / MUX into one another Use of MUX as function generator. Tutorial.	—	Modern Digital Electronics by R P Jain, chap-6,231-238	web	07/09	07/09 (2)	
11	27 Aug- 01 Sept	6	4	Introduction to Flip Flop, Loathers, concept of clock. Tutorial.	[83]	Modern Digital Electronics by R P Jain, chap-7,279-280	PPT web Projector	07/09	07/09	19/09
12	03 Sept- 07 Sept	5	4	Memories organization with Flip Flop as basic cell, Ram, RCM, EPROM & one type to another type Flop Flops. Tutorial.	—	Modern Digital Electronics by R P Jain, chap-7,281-299	web	7/09	7/09	
13	10 Sept- 15 Sept	5	5	Excitation tables & introduction to sequential circuits. Counters- Synchronous/Asynchronous. Different modular counters with reset/clear facility. Design of counters of arbitrary moudul with K-Maps. Lock freee counters.Tutorial.	[93]	Modern Digital Electronics by R P Jain, chap-8,312-390	PPT web projector	21/09/18	(3) 21/09/18	

Faculty in Charge

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HOD

Maharshi Karve Stree Shikshan Samstha's

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN

Sharpening Engineering Acumen with a difference

Lab Practicals Plan Sem. III

Date: 12 / 06 / 18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin V Khawse	Subject: PMDS	for	Department: Computer Engineering

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	print	fill	fill	print	fill	fill	print	fill	fill	fill
P1	Working with different types of operrators	27/06/18	27/06.		29/06/18	29/06		28/06/18	28/06.		
P2	Menu Driven program	4/7/2018	04/07.		6/7/2018	13/07		5/7/2018	05/07.		
P3	Use Of looping	11/7/2018	11/07		13/7/2018	20/07		12/7/2018	12/07		
P4	Different Function calls	18/7/2018	18/07.		20/7/2018	27/07		19/7/2018	19/07		
P5	Working with Strings.	25/7/2018	25/07		27/7/2018	17/08		26/7/2018	26/07.		
P6	Working with Structures	11/7/2018	29/08		3/8/2018	24/08		2/8/2018	02/08.		
P7	Searching Algorithms	1/8/2018	05/09		17/8/2018	31/08		16/8/2018	16/08.		
P8	Sorting Algorithm	29/8/2018	12/09		24/8/2018	14/09.		23/8/2018	23/08		
P9	Implementation of Queues	5/9/2018	19/09		31/8/2018	14/09		30/8/2018	30/08.		
P10	Implementation of stack	12/9/2018	19/09		14/9/2018	20/09		6/9/2018	29/09		

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Subject Incharge

CCOEW/CE / 18-19

Date: 13 / 06 / 2018

LESSON & TEACHING PLAN for PMDS

Departmnet of Computer Engineering

Faculty Name: Prof. Pravin Khawse | Session: (2018-19) | Sem:- Third

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18/6/18-22/6/18	5	I	**Introduction and Arrays using C** History of Programming, Program Execution basics Programming paradigms. Algorithm and flowchart design	Asking to Prepare Algorithm and flowchart for some Situations/problems	"Data Structure Through in Depth" Ch 1 Page 4		22/06		
2	25/6/18-30/6/18	6		Principles of Structured Programming C Language Fundamentals Decision Control Statements (if, if... else, switch) Loop Control Statements (for, while, do..while)	Playing the If else game, Playing with Patterns	"Let Us C" by Y P kanetkar Chapter 3 Page no:		29/06	T-30/06	04/07
3	2/7/18-7/7/18	6		**Arrays:** 1D and 2 D Arrays **Functions –** Definition, call, prototypes, block structure, external variables, Recursion	Assigning and Distributing the Tasks/functions	"Data Structure Through in Depth" Ch 2 Page 10		14/07		
4	9/7/18-13/7/18	5		**Storage Classes** – extern declaration and information hiding Pointer arithmetic – Functions and pointers Arrays and Pointers		"Data Structure Through in Depth" Ch 2 Page 18		24/07		17/07

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	16/7/18-21/7/18	6	II	Strings and pointers – Multi-dimensional arrays and pointers Pointers Arrays Pointer to Function Dynamic Memory Management	Sample Codes to Predict the Output	"Data Structure Through in Depth" Ch 2 Page 27	Code PPTs	31/07	T- 17/07	
6	23/7/18-27/7/18	4		**Structures :** Pointers to Structure Structure and functions Structure and arrays Structures containing pointers Tutorial	Sample Codes to Predict the Output	"Data Structure Through in Depth" Ch 2 Page 31-43	Code PPTs	1/08	25/07	20/08
7	30/7/18-3/8/18	6	III	**Searching and Sorting** Introduction to data structures, Searching and sorting techniques- Linear search Binary search	Problems for solving	"Data Structure Through in Depth" Ch 8.9 Page 472	PDF on searching	18/08		
8	6/8/18-10/08/18			**Sessional I**						
9	13/08/18-18/08/18	5		Insertion sort, selection sort, Bubble Sort, Merge Sort, Radix Sort, Hashing, Collision resolution policies	Problems for solving	"Data Structure Through in Depth" Ch 8.9 Page 417	PPT & PDF on searching	29,30/08	T- 17/08	
10	20/08/18-24/08/18	5	IV	**Stacks and Queues** Array representation of stacks Applications of stacks, Infix to Postfix , Evaluation of postfix expressions	Problems for solving on Conversion and evaluation of expression	"Data Structure Through in Depth" Ch 8.9 Page 108-140		04/09		22/09
11	27/08/18-01/09/18	6		Array representation of Queues Queues and Dequeue Circular queue, Priority Queues		"Data Structure Through in Depth" Ch 8.9 Page 108-141	PPT	14/09	30/08-T 31/08-T2	

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	03/09/18-07/09/19	5	VI	**Trees and Graph** Binary tree , **Binary tree Traversal,** Pre-order , Inorder , Post Order Expression Trees Balanced Binary Trees	Exercise questions on Tree traversal	"Data Structure Through in Depth" Ch 8,9 Page 176				
13	10/08/18-15/09/20	5		**Graphs -** Representation of Graphs and Applications Graph traversal - DFS & BFS,		"Data Structure Through in Depth" Ch 8,9 Page 326				
14	17/08/18-21/09/21	5	V	**Linked list-** Linked list- Singly linked list: Operations on linked list, Searching, Insertion, Deletion,		"Data Structure Through in Depth" Ch 8,9 Page 48	PPT		AB - 18/09	
15				Doubly linked list, Operations on doubly linked list, Sorted Linked List, circular list sparse matrix storage using linked list		"Data Structure Through in Depth" Ch 8,9 Page 63	PPT			
15	25/09/18-29/09/18			**Sessional II**						

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CCOEW/CE/ 18-19

Date: 18/06/2018

LESSON & TEACHING PLAN for Theory of Computation

Department of Computer Engineering

Faculty Name: Prof. Shailesh C. Sahu | **Year : 2018-19** | **Sem:- 5th**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	18 June - 23 June	**Project Oriented Traing Program**								
2	25 June - 30 June	6	1	Introduction to Theory of automatan Strings, Alphabet, language operations. Finite state machine definitions. Tutorial.	[1][2][3] [4]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 35 to45	Students stationeries,laptop	30/06		
3	02 July - 07 July	6	1	Finite automation model, cceptance of strings and anguage. Non deterministic finite automation, Deterministic finite utomation. Tutorial.	[5][6]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 45 to 55	Students stationeries, card containing symbols	07/07		10/07
4	09 July - 14 July	5	1	Equivalence between NFA and DFA. Conversion of NFA into DFA, NFA with e moves and e-closure with examples. Ttorial.	[7]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 55 to 60	Students stationeries	12/07		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
5	16 July - 21 July	6	1	Conversion of NFA with e moves to without e-moves Minimization of FSM, Equivalence between wo FSM's Moore & Mealy mchines. Tutorial.	[8][9]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 60 to 77	Students stationeries	20/07	20/07	
6	23 July - 28 July	5	2	Introduction to Regular languages and Regular expression Regular set, Regular Expression and Regular languages smaple examples. Regular expression examples. Equivalence and Inter Conversion between Regular Expression and FA. Tutorial	[10]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 79 to 105	Projector	22/07	27/07	31/07
7	30 July - 04 Aug	6	2	Identity rules and manipulation of Regular Expression Interconversion of RE and FA. Tutorial: Interconversion of RE and FA. Closure Properities of Regular set and Chomsky Hierarchy. Conversion from RE to RG and Right Linear to Left Linear Conversion from Regular Grammar to FA, conversion for Left to Right linear Grammar Pumping Lemma for Regular Grammar. Tutorial.	[11]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No.105 to 154	Projector	18/08	1 18/8 18/08	20/08
8	**Sessional I (06 Aug- 10Aug)**									

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
9	13 Aug-18Aug	5	3	Introduction to CFG and derivation Trees. Left Derivation Tree and Right Derivation Tree Chomsky normal form, Tutorial.	[12][13]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 157 to 175	Projector	01/09	01/09	
10	20 Aug-24Aug	4	3	Greibach normal Push Down Automaton Definition and model Equivalnace of CFL and PDA, Inter Conversion. Tutorial: GNF.	[14][15]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 175 to 200	Projector	06/09	06/09	
11	27 Aug-01 Sept	6	3	Closure Properties of CFL, Pumping lemma for CFL, Introduction to CFL and DPDA. Tutorial.	[16]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 200 to 235	Projector	11/09	11/09	
12	03 Sept-07 Sept	5	4	Turing Machine: Definition, Model of TM Design of TM, Universal Turing Machine. Tutorial: TM. Computable function, Recursive enumerable language Types of TM's (proofs not required). Linear bounded automata and Context sensitive language, Counter machine.	[17]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 234 to 380	Projector	14/09	14/09	
13	10 Sept-15 Sept	5	5	Decidability and Undecidability of problems,Properties of recursive & recursively enumerable languages. Tutorial. Halting problems and Undecidability of language Post correspondence problem, Ackerman function, and Church's hypothesis.Tutorial.	[18]	Introduction to Automata Theory, Languages, and Computation 3rd Edition, by John E. Hopcroft and J. Ullman Page No. 287 to 337	Projector	18/09	18/09	

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
14	17 Sept-21 Sept	4	6	Recursive Function: Basic functions and operations on them, Bounded Minimalization, Primitive recursive function, μ-recursive function, Primitive recursive predicates, Mod and Div functions, Unbounded Minimization, Equivalence of Turing Computable function and μ-recursive function. Tutorial	**Guest Lecturer**			21/09/18	3 21/09 21/09	
15	**Sessional II (24 Sept- 29 Sept)**									

[1]-Creating set: Instruct students to arrange the stationeries in a group.

[2]-Identifying objects: Instruct students to close your eyes and try to identify different objects.

[3]-Programming: Instruct students to write a C programming statement and compile it.

[4]-Programming: Instruct students to write a C program to understand the finite and infinite languages generated by FA.

[5]-Demonstration- demonstration of state transition diagram. (Passing objects through a chain of students.)

[6]-Demonstration- demonstration of DFA and NFA. (Passing objects through a chain of students

[7]-Demonstration- demonstration of e-move. (Passing objects through a chain of students.)

[8]-Game- a game based on treasure hunt, FSM minimization.

[9]- Game- students are divided into group and based on current problem definition has to perform minimization activity.

[10]- ppt and videos

[11]- ppt and videos

[12]- ppt and videos

[13]- ppt and videos

[14]- ppt and videos

[15]- ppt and videos

[16]- ppt and videos

[17]- ppt and videos

[18]- ppt and videos

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CCOEW/CE/ 18-19

Date: 13/ 06 / 2018

LESSON & TEACHING PLAN

Faculty Name: Prof. Harshwardhan Kharpate						Subject: CAO		ODD SEM (2018-19)		Sem:- 5th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 June - 23 June	5	1	Project Oriented Training						
2	25 June - 30 June	5	1	Computer Evaluation and Arithmetic:A Brief History of computers, Designing for Performance, Von Neumann Architecture, Computer Components,interconnection Structures.	Videos From Khan Academy. Picture prompt, Socratic Questioning	Computer Organization and Architecture by W. Stallings	PPT, Videos on generations. Machine from each generation	30/06		
3	2 July - 7 July	5	1	Bus Interconnection, Scalar Data Types, Fixed and Floating point numbers, Signed numbers, Integer Arithmetic, 2's Complement method for multiplication.	Binary Addition/Subtraction Using 2's Complement	Computer Organization and Architecture by W. Stallings	PPT	05/07		20/07
4	9 July - 14 July	5	1	Booths Algorithm, Hardware Implementation, Division, Restoring and Non Restoring algorithms, Floating point representations, IEEE standards, Floating point arithmetic.	Solving Problems in groups/Pairs	Computer Organization by Carl Hamacher Chapter 06 : pg no. 367	PPT,Video on Floating point number representation	13/07		
5	16 July - 21 July	5	2	**Processor Design:**Machine Instruction characteristics, types of operands, types of operations, Addressing, Instruction formats, Processor organization, Register Organization	16 Cards Game/ Peanut butter and jelly sandwitch	Computer Organization by Carl Hamacher	PPT,Vedios	20/07		
6	23 July - 28 July	5	2	Instruction cycles, Instruction pipelining, ALU – Combinational ALUs and Sequential ALUs, RISC Architecture.	Fetch-Decode-Execute	Computer Organization by Carl Hamacher	PPT,Videos	31/07		

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.WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no/Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	30 July-04 Aug	6	3	Single Bus Organization, Control Unit Operations: Instruction sequencing, Micro operations and Register Transfer.	Transfer exersise in class	Computer Organization by Carl Hamacher pg no : 411-445	Blackboard & Chalk PPT	04/08	(01)	13/08
8				**Sessional I**						
9	13 Aug-18 Aug	5	3	Hardwired Control : Design methods – State table and classical method, Design Examples - Multiplier CU,Micro-programmed Control	Case Study of designing CU	Computer Organization by Carl Hamacher pg no : 411-445	Blackboard & Chalk PPT	17/08		
10	20 Aug-25 Aug	4	4	Microinstructions and micro- program sequencing Characteristics of memory systems, Internal and External Memory, Types of memories.		Computer Organization by Carl Hamacher pg no : 291 to pg no 313	Blackboard & Chalk PPT,NPTEL Vedios	24/08	(02)	03/09
	27Aug-01 Sep	6	4	High-Speed Memories: Cache Memory, Organization and Mapping Techniques, Virtual Memory,Segmentation, Paging, Address Translation		Computer Organization by Carl Hamacher pg no : 314-344	Blackboard & Chalk PPT,NPTEL Vedios	31/08		
	03 Sep-08 Sep	5	5	Secondary Storage. Input/Output Systems, Programmed I/O, Interrupt Driven I/O, I/O channels, Direct Memory Access (DMA), Buses and standard Interfaces.		Computer Organization by Carl Hamacher pg no : 203	NPTEL Vedios	06/09		
	10 Sep-15 Sep	5	5	Working mechanisms of Peripherals: Keyboard, Mouse, Scanners, Video Displays, Touch Screen panel, Dot Matrix, Desk-jet and Laser Printers.	Case Study of working mechanism of printer,scanner,mouse,Keyboard	Computer Organization by Carl Hamacher pg no :553	NPTEL Vedios	12/09.		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name / btopic	Activity/ Teaching Aid	Refrence Book - Chapter ?age no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	17 Sep-22 Sep	5	6	Superscalar Processors, Multiple Processor Organizations, Symmetric Multiprocessors, Clusters, Non-uniform Memory Access , Vector Computations, Bus allocation Schemes. RISC: Instruction execution characteristics, use of large register file, compiler based register optimization, RISC architecture, pipelining. RISC vs. CISC	Case Study	Computer Organization by Carl Hamacher pg no : 617-656	NPTEL Vedios Case study and Assignment	05/10		
12				**Sessional II**						

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Lab Practicals Plan Sem. V

Date: 15 / 06 / 18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Pravin V Khawse | **Subject: C Lab III** | **Department: Computer Engineering**

		Batch B1			Batch B2			Batch B3			
Pi	Name of experiment	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	print	fill	fill	print	fill	fill	print	fill	fill	fill
P1	Introduction to java and features of java program.	28/06/18	28/06		26/06/18	26/06		25/06/18	25/06		
P2	Programs to Demonstrate Command line Argument	5/7/2018	05/07		3/7/2018	03/07		2/7/2018	02/07		
P3	Programs for Interactive Input using Scanner Class	12/7/2018	12/07		10/7/2018	10/07		9/7/2018	09/07		
P4	Programs to Demonstrate Classes and object in java	19/7/2018	19/07		17/7/2018	17/07		16/7/2018	16/07		
P5	Program to illustrate the concept of inheritance.	26/7/2018	28/07		24/7/2018	24/07		30/7/2018	30/07		
P6	Program for Error Handling	16/8/2018	16/08		14/8/2018	14/8		13/8/2018	13/8		
P7	Program for demonstration of the concept of packages.	22/8/2018	23/08		21/8/2018	21/8		20/8/2018	20/8		
P8	program for illustration of concept of applets in java.	30/8/2018	30/08		28/8/2018	28/8		27/8/2018	03/09		
P9	Program for demonstration of Abstract Class./Interface	6/9/2018	06/09		4/9/2018	11/09		3/9/2018	17/09		
P10	program for creation of moving ball in java applet/ Multithreading.	13/9/2018	20/09		11/9/2018	18/09		10/9/2018	24/09		

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CCOEW/CE / 18-19 | Date: / / 2018

LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Priyadarshini Ramteke | Subject: IEED | SEM IV C.E./ETC (2018-19) | Sem:- ODD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 June-23 June			WORKSHOP/ORIENTATION		1. JEED By A.M. Shaikh Nawaz Khan M.A. Tongo				
2	25 June-30 June		I	Business Structure, Top and Bottom line of organzation		2. Modern Economic Thy by K.K. Dwett		17/7/18 18/7/18 19/7/18		
3	02 July-07 July			Economic Analysis of Business, Economic prudence in business, Economies of operations				20/7/18 23/7/18		
4	09 July-14 July		II	Market structure: Perfect Competition, Oligopopoly, Monopolistic Competition, Monopoly				21/7/18 24/7/18 25/7/18 27/7/18		
5	16 July-21 July			Business integration: Forward integration, Backward Integration,				30/7/18 30/7/18		
6	23 July-28 July			LPG Policy, Business Cycle and Optimum size of firm				31/7/18 1/8/18 2/8/18		

Faculty in Charge

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no, Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	30 July-04 Aug		III	Functions of Central and Commercial banks, Economies and Diseconomies of scale,				3/8/18 4/8/18 17/8/18 20/8/18		
8	30 July-04 Aug			FDI, Free Trade Vs Protection, Capital Formation, Multiplier and Accelerator effect				21/8/18 23/8/18 24/8/18 28/8/18		
9	06 Aug-11 Aug	Sessional I								
10	13 Aug-18 Aug		III	Inflation, Recession, Stagnation, PPP Models, Inclusive Growth,				31/8/18 1/9/18 3/9/18 4/9/18		
11	20 Aug-25 Aug		V	Sources of finance, term loan, venture capital, angel funding				5/9/18 6/9/18 12/9/18	5/9/18	
12	06 Aug-11 Aug			Capital structure, Working capital, Costing, BEP,				12/9/18 17/9/18 21/9/18		
13	13 Aug-18 Aug		V+VI	Network analysis, Taxation, Small Scale industries (Types, Advantages, Problems of SSIs)				21/9/18 18/9/18		
14	27 Aug-01 Sept		VI	Sickness in SSI, FDI and threates to SSI, TCOs				19/9/18 19/9/18		
15	03 Sept-08 Sept			Safeguard measures against currency fluctuation, Govt policy to SSIs, Incentives to SSI, Tax holidays				21/9/18 21/9/18	21/9/18	

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LESSON & TEACHING PLAN

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Bhagyashree Joshi						Subject: Computer Graphics		SEM (2018-19)		Sem:- Seventh Sem
W No	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no.	ICT tools	Completion Date	Assignment/ Tutorial Date	HOD's sign
1	18 - 23 June			**Project Oriented Training**						
2	25-30 June	6	I	Introduction to Computer Graphics,Theory of Circle generation	PPT/students	Procedural elements for Computer Graphics by, David F. Rogers, McGraw Hill Page Nos, 6,7,8,66,70,74,75	self prepared ppt	25-6-18		
				Points, lines, planes	PPT/students explained		self prepared ppt	26-6-18		
				pixels and frame buffers	PPT/students explained		self prepared ppt	27-6-18		
				Types of display devices and its architectures	PPT/students explained		self prepared ppt	28-6-18		
				DDA algorithm for line generation 1st quadrant	Numericals		self prepared ppt	29-6-11		
				Tutorial			Chalk, Board	29-6-11		
3	2-7 July	6	I	DDA algorithm for line generation	Numericals Practice		Chalk, Board	3-7-11		
				Bresenhem's algorithm for line generation 1st quadrant	Numericals		Chalk, Board	4-7-11		
				Bresenhem's algorithm for line generation generalised	Numericals Practice		Chalk, Board	5-7-11		
				Bresenhem's algorithm for line generation generalised	Numericals Practice		Chalk, Board	5-7-11		
				Bresenhem's algorithm for Circle 1st quadrant	Numericals		Chalk, Board	9-7-11		
				Examples						

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4	9 - 14 July	6	I	Bresenhem's algorithm for Circle	Numericals Practice	Procedural elements for Computer Graphics by, David F. Rogers, McGraw Hill Page Nos, 79,88,-142-151.	Chalk,Board	9-7-11		
				Ellipse generation	PPT/students explained		self prepared ppt	10-7-11		
				Aliasing,Anti aliasing and it's techniques	PPT/Video		https://www.youtube.com/watch?v=Fx6Zs8qSIRY	11-7-11		
				Aliasing,Anti aliasing and it's techniques	PPT		https://www.youtube.com/watch?v=GvLEAHRmPI0	12-7-11		
				Tutorial	Quiz			13-7-11		
5	16-21 July	6	II	Display Files	PPt	Procedural elements for Computer Graphics by, David F. Rogers, McGraw Hill Page Nos,3,137-142,115,118,121,126,131,133	Self created PPt	16-7-11		
				algorithms for polygon generation	PPt/Numericals		chalk Board	17-7-11		
				Simple ordered Edge list	Numericals		chalk Board	18-7-11		
				Simple ordered Edge list, Edge fill	Numericals		chalk Board	19-7-11		
				Edge fill	Numericals		chalk Board	20-7-11		
				Tutorial	Numericals		chalk Board	21-7-11		
6	23-27 July	5	II	Edge flag,Fense fill	Numericals		chalk Board	25-7-11		
				Edge flag	Numericals		chalk Board	26-7-11		
				seed fill, scan line seed fill	-		—	27/7/11		
				Tutorial	Numericals			30		
7	Jul30 July-4 August	6	II	NDC(Normalised device co-ordinated)		Procedural elements for Computer Graphics by, David F. Rogers, McGraw Hill Page Nos,63,175,177,181,187		31/7		
			III	operations on segments				1/8/18		
				data structures for segments and display files				2/8/18		
				Window, viewport, viewing transformations				3/8/18		
				Cohen-Sutherland				4/8/18		
				Tutorial						

Faculty in Charge :-

HOD :-

8	6-10 Aug	**Mid Term Test**

CCOEW/CE / 18-19

Date: 2 / 08 / 2018

LESSON & TEACHING PLAN for CG

Departmnet of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Session: (2018-19) | Sem:- Fifth

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
8	6/8/18-10/08/18			**Sessional I**						
9	13/08/18-18/08/18	4	III	operations on segments,data structures for segments and display files,window, viewport,viewing transformations,Cohen-Sutherland	Taking Numerical practice	Procedural elements for computer graphics by David F. Rogers Pg.No. 63,175,177,181,187,192,196,253	Chalk board/PPT	13/8/18 14/8/18 16/8/18 17/8/18		
10	20/08/18-24/08/18	4	III	Cyrus-Beck Algorithm,Mid-point subdivision,Polygon clipping(Sutherland-Hodgeman),scaling,Translation	Taking Numerical practice		Chalk, board	18/8/18 20/8/18		28/08
			IV			Computer Graphics by Udit Agrawal	Chalk, board	21/8/18 23/8/18		
11	27/08/18-01/09/18	5	IV	Rotation,Reflection,Shearing,Rotation about arbitary axis,parallel, perspective and isometric projections	Taking Numerical practice/MCQ's		Chalk, board	24/8/18 27/8/18 28/8/18 29/8/18		12/09
12	03/09/18-07/09/19	5	V	Painter's, Z-buffer,Warnock's, Back-face Removal algorithm,Methods of interpolation,Bezier and B-splines	showing hidden surface removal algorithm in the form of game with students	Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill.Pg.no. 375,343,474,476,482	PPT,Videos	3/9/18 3/9/18 1/9/18 3/9/18 4/9/18 5/9/18		

Faculty in Charge

Dr. Milind Khanapurkar
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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	10/08/18-15/09/20	5	V	Gouraurd Shading, Phong Shading,Constant Intensity Shading, Fast Shading,Properties of light,chromaticity Diagram	PPT/MCQ's			6/9/18 3/10/18 4/10/18		
			VI			Procedural elements for computer graphics by David F. Rogers, Mc-Graw Hill. Pg.No. 609,611,623,624,627,645	PPT,Slideshare videosVideos	12/9/18 14/9/18 17/9/18		29/10/18
14	17/08/18-21/09/21	4	VI	RGB,YIQ CMY, HSK,color models & their conversion,color selection & applications,Design of Animation sequences, animation Function,animation language,Key-Frame System, motion Specification	Plan to teach on PPT			18/9/18 11/9/18 11/9/18 19/9/18 21/9/18		
15	25/09/18-29/09/18			**Sessional II**						

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Faculty in Charge

HOD

CCOEW/CE / 18-19

Date: 25 / 06/ 2018

LESSON & TEACHING PLAN

Computer Engineering Department

Faculty Name: Prof. Abhilasha Borkar | **Subject: TCP/IP** | **SEM Fifth Sem (2018-19)** | **Sem:-** ____

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
				18 June-22 June- PHP Traning						
1	25 - 30 june	6	1	Introduction to TCP/IP TCP/IP MODEL Comparison of OSI Model and TCP/IP model Networking Technologies: LANS, WANS. Networking Technologies: LANS, WANS. Tutorial	1) video will be show in which they learn how OSI work 2)Through PPTs the explaniaion of underlaying technlogies	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 1, 2-14 Chapter 2,19-40 Chapter 3, 47-80	1) OSI model animated Video ,PPts on Introduction of Internet and standard 2) OSI and TCP/IP Protocol Suit . 3) underlaying technologies for MCQ link is **http://highered.mheducation.com/sites/0073376043/student_view0/chapter_01_-_multiple_choice_quiz.html**	25/6/18 26/6/18 27/6/18 28/6/18 29/6/18 30/6/18	30/6/18	
2	2-7 July	6	1	Connecting Devices Internetworking Concepts Architectural model Internet Backbones NAP, ISP's RFC's Tutorial	1)connecting devices like router ,switch,cables, plan to show in classroom 2)plan to give details of ISPs used in our college 3) Introduce new technology for intranetwork	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 1, 2-14 Chapter 2,19-40 Chapter 3, 47-80	Physical devices router,switch, ethernet RJ- 45 and PPTS on connecting devices by behrouz foruzan	3/7/18 4/7/18 5/7/18 6/7/18 9/7/18 30/6/18		

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Faculty in Charge **HOD**

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	9-14 July	5	1	Internet Standards. IP address classes Internet Addresses Classes,Classful Addressing,Classless Addressing Tutorial	1) Plan to make LAN connections in class room and Assigning IP address	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 5,6 115-150 161-178	Laptop,ethernet-RJ 45, 1)IPV4 PPTs	9/7/18 10/7/18 10/7/18 11/7/18 17/7/18	Assignment 1	
4	16-20 July	5	2	Mask and subnetting Numerical based on Masking Subnet Mask CIDR Tutorial	plan to give activity to identify classes and no. of networks and no. of host based on numericals		Chalk board ,1) IPV4 PPTs	12/7/18 13/7/18 13/7/18 16/7/18 ~~17/7/18~~		
5	23-27 July	5	2	ARP and RARP Internet Protocol. Routing IP Datagram ICMP IGMP. Tutorial	**cisco packet tracer Simulator installation and Perfroming practical based on Protocols and configuration of this**	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 8, 221-237 Chapter 9,245-263 Chapter 13, 375-408 Chapter 14, 414	Laptop, 1) ARP - ppts 2) Forwording of IP Packet-PPT , sotware cisco packet tracer	18/7/18, 19/8 19/7/18 25/7/18, 26/7 19/7/18 17/7/18		
7	30 july-4 Aug	6	3,	Sockets and socket Programming TCP,UDP Sockets and socket Programming Routing in Internet RIP ,Routing Information Protocol Tutorial	**considering student as a object and perform client server communication**	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 17, 546	PPTs of socket programming	1/9/18 29/8/18 1/9/18 13/8/18 13/8/18 23/8/18	Assignment 3 Assignment 2	29/8

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Lab Practicals Plan Sem. V

Date: 25 / 06 / 18

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR

Faculty Name: Prof. Abhilasha T. Borkar | Subject: TCP/IP | for | Department: Computer Engineering

			Batch B1			Batch B3			Batch B2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	Perform Date	No. of Viva done	HoD's Remark	
print	print	possible Variations used	print	fill	fill	print	fill	fill	print	fill	fill	
1	To study TCP/IP Protocol Suit		25-06-18	25/6/18	08	26-06-18	25/6/18 3/7/18	10+2	28-06-18	28/6/18		12
2	Configure Star Topology using HUB	Trough Switch	02-07-18	02/7/18	09	03-07-18	03/7/18	11	05-07-18	5/7/18		12
3	Configure VLANS on Switch		09-07-18	9/7/18	14	10-07-18	10/7/18	13	12-07-18	12/7/18		14
4	Configure VLANS on Switch with trunk mode		16-07-18	16/7/18	05	17-07-18	24/7/18	13	19-07-18	19/7/18	9/8 22/9/1	14
5	To Configure router and perform communication		30-07-18	30/7/18	07	24-07-18	31/7/18	14	26-07-18	26/7/18		13
6	Perform Static and Dynamic Routing (NATTING)	Static, Dynamic PAT	06-08-18	20/6/18 13/8/18	12	31-07-18	14/8/18 21/8/18	13	02-08-18	2/8/18		14
7	Implement RIP protocol on Router (RIP)		13-08-18	3/9/18	12	07-08-18	28/8/18	12	09-08-18	23/8/18		07
8	Implement OSPF protocol on Router		20-08-18	17/9/18	14	14-08-18	4/9/18	15	16-08-18	6/9/18		13
9	Configure BGP Protocol (BGP)		27-08-18	17/9/18	14	21-08-18	11/9/18	12	23-08-18	13/9/18		14
10	Configure FTP Protocol		03-09-18	21/9/18	10	28-08-18	18/9/18	12	30-08-18	20/9/18		11

No. viva done

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HoD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
06 Aug- 10 Aug Sessional-1										
9	**13 Aug- 18 Aug**	**5**	**3**	BGP Introduction to Multicasting Multicast routing. Host Configuration Tutorial	**configuring BGP protocol on packet tracer**	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 18, 568 Chapter 19, 582 Chapter 20, 610	PPTs of BGP and chalk board	17/8/18 27/8/18 . 11/9/18 21/9/18		
10	**20 Aug- 24 Aug**	**5**	4	BOOTP DHCP FTP Services: Domain Name System Tutorial	Configuration of protocols on packet tarcer	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 18, 568 Chapter 19, 582 Chapter 20, 610	PPT on DHCP by behrouz foruzan cisco packet tracer, chalk board	17/9/18 11/9/18 12/9/18 17/9/18 21/9/18		
11	**27 Aug - 1 Sep**	6	5	TFTP and Electronic Mail: SMTP MIME IMAP and POP Network Management Tutorial	understanding concept by real time example		Gmail ,PPTs on SMTP by behrouz foruzan	19/9/18 14/9/18 . 19/9/18 14/9/18 21/9/18		

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
12	3 Sep-7 Sep	5	5	SNMP	understanding concept by real time example	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 21,630 Chapter 23,24	PPTs on Mobile IP by Behrouz foruzan	14/9/18		
				Mobile IP				6/9/18		
				Multimedia				19/9/18		
				RTP				19/9/18		
				Tutorial						
13	10 Sep-15 Sep	6	5	RTCP	configuring HTTP protocol		PPTs on HTTP by Behrouz foruzan			
				PGP						
				Firewalls						
				SSL				19/9/18		
				Middleware's						
				HTTP				19/9/18		
14	17 Sep-21 Sep	5	6	RPC, RMI	understanding concept by real time example	TCP/IP Protocol Suit (fourth Edition) By Behruz Foruzan Chapter 22, 656	PPTs on RMI by Behrouz foruzan			
				Introduction to IPv6				.		
				ICMPv6						
				Internet Security:IPSec						
				Tutorial				21/9/18.		
25 Sept- 29 Sept - Sessional- II										

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CCOEW/CE / 18-19

Date: 25/ 06/ 2018

LESSON & TEACHING PLAN for Web Technology

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar | Year : 2018-19 | Sem:- 7'th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	25 June-30 june	5	1	Introduction to Web Technology Web Essentials, client server communications, Web Browser, Markup Languages	i) Practical pracise will taken on HTML, XHTML,Java Script Program also will take MCQ's on topics ii) Task given students for design creative web pages , also collect more info about web essentials as an assignment	1) "Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates	Related topics pdf & ppt and videos will show	25/6/18 25/6/18 26/6/18 27/6/18 28/6/18 29/6/18 30/6/18 2/7/18 3/7/18 4/7/18 5/7/18 9/7/18 10/7/18 11/7/18 Progsam Practise of 1 week 20/7/18 1st session 21/7/18 med 22/7/18 given 24/7/18 25/7/18 30/7/18 31/7/18 13/8/18		2/7 21/07
2	2July-7 July	5		HTML XHTML,SHTML						
3	9 July-14 July	5		XML, simple XHTML page style sheets Introduction to CSS, Need for CSS basic syntax and extrusion, DHTML.						
4	16 July-21 July	5	2	Client side programming, Java Script Language, host objects: Browsers hard disk,						
5	23July-27 July	4		DOM ,AJAX JAVA Applets,						

from 1st to 4th progsam practise of javascript

Kmilind

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Cummins College of Engineering for Women, Hingna, Nagpur-441110

Faculty in Charge **HOD**

Maharshi Karve Stree Shikshan Samstha's

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CCOEW/CE / 18-19

Date: 25/ 06/ 2018

LESSON & TEACHING PLAN for Web Technology

Department of Computer Engineering

Faculty Name: Prof. Sakshi Khamankar | Year : 2018-19 | Sem:- 7'th

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	25 June-30 june	5	1	Introduction to Web Technology Web Essentials, client server communications, Web Browser, Markup Languages	i) Practical pracise will taken on HTML, XHTML,Java Script Program also will take MCQ's on topics ii) Task given students for design creative web pages , also collect more info about web essentials as an assignment	1) "Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates	Related topics pdf & ppt and videos will show	25/6/18 25/6/18 26/6/18 27/6/18 28/6/18 29/6/18 30/6/18		
2	2July-7 July	5		HTML XHTML,SHTML XML, simple XHTML page style sheets				2/7/18 3/7/18 4/7/18 5/7/18 9/7/18 10/7/18 11/7/18		3/7 21/07
3	9 July-14 July	5		Introduction to CSS, Need for CSS basic syntax and extrusion, DHTML.				Progsam Practise of 1 week		
4	16 July-21 July	5	2	Client side programming, Java Script Language, host objects: Browsers hard disk,				20/7/18 21/7/18 27/7/18 24/7/18 26/7/18	1st assign med given	
5	23July-27 July	4		DOM ,AJAX JAVA Applets,				30/7/18 31/7/18 13/8/18		

from 1st to 4th progsam practise of javasesipt

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
6	30 July-4 Aug	5	3	server side programming:	program practice on			14/8/18		
				Java Servlets - basics,	Java Servlet			16/8/18	2nd assignment	13/08
7	6 Aug-10 Aug			Sessional I						
8	13 Aug-18 aug	5	3	Java Servlets - basics,	Guest lecture	1) "Web Technologies - A Computer Science Perspective", 1st Edition, Jeffrey C. Jackson 2) Web Programming (Building Internet Applications)", 3rd Edition, Chris Bates	Related topics pdf & ppt & Videos will show		2nd assignment	
				simple program,	taken			17/8/18		
				separating programming and presentations	by Industry person					
9	20 Aug-25 Aug	4		JSP basics	seminar			20/8/18		
				simple JSP pages.	&					
				Representing web data	GD taken			21/8/18		
10	27 Aug-1 Sept	5	4	database connectivity						
				JDBC	Given			23/8/18	3rd assignment	
				Dynamic web pages,	Task			23/8/18		
				XML, DTD	to make			27/8/18		
				XML schema,	difference			27/8/18		
				DOM, SAX	between			28/8/18		
11	3 Sept-9 Sept	5		Parsing XML Document using DOM/SAX parser.	XML & other lang.			29/8/18		
				Email Tools				29/8/18		
12	10 Sept-15 Sept	5	5	FTP Tools	given			31/8/18		
				FTP Tools	Task			1/9/18		
				WWW,TELNET, PUTTY,	to find			3/9/18		
				DNS, Web Services & Feeds				3/9/18		
								6/9/18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
13	17Sept-21 Sept	5	6	SOAP, RSS Feeds	what			11/9/18		
				Building web Applications,	are			11/9/18		
				Cookies sessions,	other			12/9/18		
				APACHE TOMCAT,Accessibility	Email			17/9/18		
				Internationalization	tools.			18/9/18		
				Types of Web Attack ,Intrusions.				19/9/18		22/09
14	25 Sept-29 Sept			Sessional II						

Faculty-In-Charge

HOD

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CCOEW/~~IS~~ CE / 18-19

Date: 31 / 06 / 2018

LESSON & TEACHING PLAN for IANS

Department of COMPUTER ENGINEERING

Faculty Name: Prof. Sharayu Deote — Year : 2018-19 — Sem:- VII

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18-22			Androd Training						
2	25-30 June	2	1	Securiy fundamentals ,Introduction Terminology Attacks ,security goals : Authentication & Authorization	Disscussion on cyber crime happened in last AY possible solution	Cryptography & n/w security by william stallings pg no. 1-20	ppts / provided notes / shown video	26/06		
		1		Ciber techniques:Substitution and Transposition Various algorithm and its implementation	Implementation on laptop Activity to crack cipher text created one students by other students	Cryptography & n/w security by william stallings pg no. 20 -40	ppts			
		1		Tutorial	Practice on university questions on covered topics			30/06		

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Faculty in Charge

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
3	2 -7 July	2	1	Attacks ,security goals : Authentication & Authorization	hands on hacking					
		1		One time pad ,Modular Arithmatic ,GCD	Implementation on laptop					
		1		stream cipher ,block cipher secret splitting and sharing						
		1		Tutorial	Practice on university questions on covered topics			07/07		
4	9 - 13 July	2	1	eclide algoriths, Chinese Remainder theorm ,	Solving Examples in a groups					
		1		Descete Logarithm, Fermats Theorms	Solving Examples in a groups					
		1		Block generation & uses ,ECC	Video					
		1		Tutorial	Practice on university questions on covered topics			13/07		
5	16-21 July	2	II	Hash Algorithms: SHA-1,MD5	Groups acivity for finding differences in both algorithms					
		1		Cryptograhpy Symmetric key algorithm : DES,AES	MCQ				Assignment 01	
		1		Blowfish Algorithm,	www.youtube.com/watch?v=BejhxHiH-5Zs		Video			
		1		Attacks on DES	Thought processes for Attacks			21/07		
		1		Tutorial	Practice on university questions on covered topics					

Faculty in Charge

Dr. Milind Khanapurkar
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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
6	23 - 27 July	2	II	Modes of operations				27/07		
		1		Linear cryptanalysis and Differential cryptanalysis						
		1		Public key algorithm :RSA,Key Exchange						
		1		Tutorial						
7	30- 4 Aug	2	III	Key Management Introduction, Key Management: Generations, Distribution, Updation,						
		1		Digital Certificate, X.509 certificates, Digital Signature, Diffiee Hellman Key Exchange	Notes			1/08		
		1		Tutorial						
		1		One Way Authentication,						
		1		Kerberos.						
		1		Tutorial						
Sessional -I (6-Aug To 10- Aug-2018)										
8	13- 18 Aug	2	IV	Network Security						
		1		Layer Wise Security Concerns,				24/08	Assg - 02	
		1		IPSEC- Introduction, AH and ESP,						
		1		Tunnel Mode, Transport						
		1		Mode,						
		1		Tutorial						
	20 - 24 Aug	2		Security Associations, SSL-Introduction,						
		1		Handshake Protocol, Record Layer Protocol.						
		1		IKE-Internet Key Exchange Protocol.				31/08		
		1		Intrusion Detection Systems: Introduction,						
		1		Anomaly						
		1		Based,Signature Based, Host Based,						
		1		Network Based Systems.						

Faculty in Charge

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HOD

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
9	27 - 1 Sept	2	V	Security Management and Applications	PPT/Chalk board. Notes given			07/09		
		1		Intruders, Intrusion detection, Password management,						
		1		Worms, viruses, Trojans,						
		1		Virus countermeasures, Firewalls,						
		1		Firewall design Principals,						
	3-7 Sept	2		Trusted system, Electronic						
		1		Payment: Introduction, Payment types,				10/09		
		1		Smart Cards, Chip card transactions and attacks,payment						
		1		over internet,						
		1		Mobile Payments, Electronic Cash.						
10	10-14 ~~Sep~~	2	VI	Cyber Crimes & Laws					~~19~~ 15/09	
		1		Introduction, Computer Forensics,						
		1		Online Investigative tool,						
		1		tracing and recovering electronic						
		1		evidence						
	17-21 ~~Sep~~	2		Internet fraud, Cyber Stalking, Identity Theft,				21/09		
		1		Industrial Espionage, Cyber Terrorism.						
		1		Indian IT laws: Introduction and briefs about IT laws clauses						

Sessional -II

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Date: 13/ 06 / 2018

CCOEW/CE/ 18-19

LESSON & TEACHING PLAN

Faculty Name: Prof. Harshwardhan Kharpate						Subject: Advance Microprocessor		ODD SEM (2018-19)		Sem:- 7th
WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
1	18 June - 23 June	5	1	Project Oriented Training						
2	25 June - 30 June	5	1	Introduction to 32-bit processors. Historical evolution of 80286,386 & 486 processor, real & protected modes	Socratic Questioning/Picture Prompt	Intel Microprocessor by Barry Brey,Eighth edition,Page no 1-50 and Burchundi,Ray 444.505	PPT on 80286,386.486. Videos	30/06		
3	2 July - 7 July	5	1	segmentation. paging mechanism & privilege mechanism & protection mechanism. pipe lining & task switching.	Pass the chalk, Fetch-Decode-Execute for pipelining	Intel Microprocessor by Barry Brey,Eighth edition Page no 1-50	PPT, Video on Task Switching (NPTEL)	09/07		13/07
4	9 July - 14 July	5	2	Pentium features & architecture, pin description, functional description	Comparison with previous processors	Advanced Microprocessors and Peripherals by A K Ray and K M Burchundi second edition pg no : 556 and Intel Microprocessor pg no 729	PPT,Videos from bharatacharyaeducation.com	16/07		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
5	16 July - 21 July	5	2	Pentium real mode, Pentium RISC features ,Pentium super-scalar architecture- pipelining, instruction paring rules		Advanced Microprocessors and Peripherals by A K Ray and K M Burchundi second edition pg no : 556 and Intel Microprocessorpg no 759	PPT,Videos from bharatacharyaeducation.com	24/07		
6	23 July - 28 July	5	2	Branch prediction, instruction and data caches, the floating unit.		Intel Microprocessor by Barry Brey,Eighth edition,Page no 759	PPT,Videos from bharatacharyaeducation.com	31/07	01	

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Lab Practicals Plan Seventh Semester (A.Y 2018-19)

Date: 20 /06 /18

Faculty Name: Prof. H.V.Kharpate **Subject: AMP**

			Batch B3			Batch B1				Batch B2			
Pi	Name of experiment		Planned Date	Perform Date	No. of Viva done	Planned Date	Perform Date	No. of Viva done	HoD's Remark	Planned Date	Perform Date	No. of Viva done	HoD's Remark
print	print	possible Variations used	print	fill	fill	print	fill	fill	fill	print	fill	fill	fill
1	Study of 8051 Microcontroller		27/06	27/6		28/06	28/6			29/6	29/6		
2	To write and execute 8051 assembly language program for addition of two 8 bit numbers		4/7	4/7		5/7	05/07			13/7	13/7		
3	To write and execute 8051 assembly language program for multiplication of		11/7	18/7		12/7	12/7			20/7	20/7		
4	To write and execute 8051 assembly language program for division of two 8		18/07	25/7		19/07	26/7			27/7	03/8		
5	To write and execute 8051 assembly language program for swapping lower nibble with upper nibble of 10 8 bit numbers stored in memory		25/07	01/08		26/07	2/8			3/8	17/8		
6	To write and execute 8051 assembly language program to find the smallest byte out of 10 bytes stored in memory		1/8	29/8		2/8	16/8			17/8	24/8		
7	To write and execute 8051 assembly language program to serially transfer the data to other controller using Keil software		29/08	05/9		16/8	23/8			24/8	31/8		
8	To write and execute 8051 assembly language program to toggle port 1 and port 2 using keil.		5/9	05/9		23/8	30/8			31/8	31/8		
9	WAP to interface BCD to 7 segment display using MCU 8051 IDE		12/9	12/9 19/9		30/8	6/9 ~~Ag fa~~ 14/9			7/9	14/9		

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CCOEW/CE / 18-19

Date: 2 / 08 / 2018

LESSON & TEACHING PLAN for AM&M

Departmnet of Computer Engineering

Faculty Name: Prof. Suruchi Kitey | Session: (2018-19) | Sem:- Seventh

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	1/8/18-4/08/18	4	III	Basic Pentium programming,programmer's model	PPT/MCQ's	Introduction to Assembly Language Programming For Pentium and RISC Processors by Sivarama P. Dandamudi	Chalk board/PPT	1/8/18 2/8/18 3/8/18 4/8/18		20/08
8	6/8/18-10/08/19	SESSIONAL I								
9	13/08/18-18/08/18	4	III	register set,addressing modes,data types	PPT,Slideshare videosVideos	Introduction to Assembly Language Programming For Pentium and RISC Processors by Sivarama P. Dandamudi	Chalk board/PPT	13/8/18 14/8/18 16/8/18 17/8/18		
10	20/08/18-24/08/18	4	III	data transfer instructions			Chalk, board	18/8/18 20/8/18 21/8/18 23/8/18	02	03/09
11	27/08/18-01/09/18	5	IV	Arithmatic instructions(Addition,subtraction,multiplication)	PPT,Videos	Introduction to Assembly Language Programming For Pentium and RISC Processors by Sivarama P. Dandamudi	Chalk, board	24/8/18 27/8/18 28/8/18		
12	03/09/18-07/09/19	5	V	logical instructions,Bit manuplication instruction,Process control instruction	PPT/MCQ's	Introduction to Assembly Language Programming For Pentium and RISC Processors by Sivarama P. Dandamudi	Chalk, board/PPT	29/8/18 30/8/18 31/8/18 3/9/18 4/9/18		

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Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
05 Sept-08 Sept 2018	3	5	8051 Micro-controller: Micro-controller NCS-51 family architecture, on-chip data memory & program memory,organization-register set, register bank , SFRs.	Comparing Microprocessor and microcontrollers	The 8051 Microcontroller and Embedded Systems by Mohamad Ali Mazidi	Bahratacharyaeducation video,ppt,blackboard and chalk	12/09		
10 Sept-15 Sept 2018	4	5	interrupt structure, timers & their programming, serial port & programming, design of minimum system using 8051 micro-controller for various applications	Serial and timer programs on MCU 8051 IDE	8051 Microcontroller by Ayala	Bahratacharyaeducation video,ppt,blackboard and chalk	14/09		
17 Sept-21 Sept 2018	5	6	Overview of 8096 Micro-controller: General description, processor section, on-chip data I/O section. Basic software examples: using the 8096's processing section, using the I/O section	Case Study	Advance microcontrollers raj Kamal	Assignment & discussion from comparing previous microcontroller	21/09	03	
			Sessional II						

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CCOEW/CE / 18-19

Date: 25 / 6/ 2018

LESSON & TEACHING PLAN

COMPUTER ENGINEERING DEPARTMENT

Faculty Name: Prof. Abhilasha Borkar | **Subject: OS** | **SEM Fifth Sem (2018-19)** | **Sem:-** ____

WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
				18 -22 June -Android Traning						
2	25 - 30 june	6	1	What is Operating System do(OS), Types of OS,Operating system User-operating system Interface System calls, Types of system calls System programs,operating system structure Tutorial	1) To understand the basic concept of os video will be shown 2)soft copy of notes plan to give and prepare mcq on basic	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451	PPTs-chapter 1 from silberteaz , Videos-opearting system introduction Shaun michel stone	25/6/18 26/6/18 27/6/18 28/6/18 29/6/18 30/6/18		
3	2-7 July	6	1	Virtual machines FILE SYSTEM: File concepts, Access Directory & Disk structure File system Mounting, File sharing, protection Tutorial	1) soft copy of notes plan to give and discuss in classroom 2) explain the concept by showing animated video and PPTs also and perform practical 3) To Identify types of diff File Support to diff. OS.	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 1, pg no. 3,12,18,20 Chapter 2, pg no. 49-88 Chapter 10, pg no. 421-451	PPTs on Virtual machine - Sai Sidddharth	29/6/18 2/7/18 3/7/18 4/7/18 5/7/18 30/6/18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
4	9-14 July	5	1	File system structure,File system implementation, Directory implementation,Allocation method, Free-space management Efficiency & performance, recovery Tutorial	Explain the concept by showing animated video and PPTs also and prepared MCQs	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128	PPTs, by silberteaz Videos-File Structure by Shaun michel stone	9/7/18 10/7/18 11/7/18 11/7/18 7/7/18		
5	16-20 July	5	2	Process concept, process scheduling operations on process,interprocess communication THREADING: Multithreaded programming overview,multithreading models. PROCESS SCHEDULING: Basic concepts, Tutorial	1) plan to show videos and to explain concept in classroom by giving good examples	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 11, pg no. 461-490 Chapter 3, pg no. 101-128	PPTs on process syncronization silberteaz ,process management by Shaun michel stone Animated Videos	12/7/18 13/7/18 17/7/18 16/7/18 17/7/18		20/07/18
6	23-27 July	5	2	scheduling criteria scheduling algorithm, multiprocessor scheduling algorithm evaluationithm, multiprocessor scheduling algorithm evaluationithm, Tutorial	**1) Numericals will be solve on algorithm by explaning real time example**	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257. Chapter 7, pg no. 283-304	Scheduling Algorithm PPTs, Chalk Board	18/7/18 19/7/18 20/7/18 20/7/18 30/7/18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
7	30 july- 4 Aug	6	3	PROCESS SYNCHRONIZATION: Background critical section problem Peterson's solution,synchronization, Hardware solution, semaphore monitors, classic problems of synchronization	1) plan to show videos and to explain concept in classroom by giving good examples		PPTs on Process syncronization by silbertz ,process management by Shaun michel stone Animated Videos	25/7/18 26/7/18 27/7/18 30/7/18 31/7/18		
06 Aug- 10 Aug Sessional-1										
9	13 Aug- 18 Aug	5	3 4	types of semaphore DEADLOCKS: System model, Deadlock characterization Methods for handling deadlocks Deadlock prevention,deadlock avoidance	**1) Numericals will be solve on algorithm by explaning real time example**	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 6, pg no. 225-257 Chapter 7, pg no. 283-304	PPTs on deadlock by silbertz , and Chalk Board	2/8/18 13/8/18 14/8/18 16/8/18 17/8/18		
10	20 Aug- 24 Aug	5	4 5	Deadlock detection Recovery from deadlock SECONDARY STORAGE STRUCTURE: Overview of mass storage structure Disk structure Tutorial	Explain the concept by showing animated video and PPTs also and prepared MCQs	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8	PPTs on deadlock by silbertz , deadlock by Shaun michel stone Animated Videosand Chalk Board	18/8/18 20/8/18 21/8/18 21/8/18 23/8/18		

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WEEK No.	Week	No. Of Lect.	Unit No.	Exact Topic Name & Subtopic	Activity/ Teaching Aid	Refrence Book - Chapter no. Page no,edition. No	ICT tools	Completion Date	Assignment/Tutorial Date	HOD's sign
11	27 Aug -1 Sep	6	5	Disk attachment Disk scheduling Disk management Introduction to RAID structure swapping Tutorial	Showing hard disk in classroom soft copy of notes plan to give and discuss in classroom	pg no. 315-342 Chapter 9 pg no. 357-396	Disk and preparing numerical ppts	24/8/18 24/8/18 27/8/18 27/8/18 27/8/18 23/8/18		
12	3 Sep-7 Sep	5	5	contiguous memory allocation paging structure of page table, segmentation VIRTUAL MEMORY MANAGEMENT: Background demand paging copy-on-write, page replacement, allocation of frames	Explain the concept by showing animated video and PPTs also and prepared MCQs	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 12, pg no. 505-533 Chapter 8 pg no. 315-342 Chapter 9 pg no. 357-396	PPTs onmemory management by silbertz , video by Shaun michel stone Animated Videos and Chalk Board	23/8/18 29/8 3/9/18 3/9/18 3/9/18 4/9/18		
13	0 Sep-15 Se	6	5	Thrashing, memory mapped file Allocating kernel memory Tutorial	Notes given and teach in class room		PPTs on system protection by silbertz , Chalk Board	8/9/18 12/9/18 21/9/18		
			6	SYSTEM PROTECTION: Goals of protection principles and Domain of protection Access Matrix implementation	Giving each topic to each group and explain by them and if doubt cleared in class room	1.Opearting System Concepts by Avi Silberschatz, Galvin Chapter 14 pg no. 591-610		12/9/18 17/9/18 18/9/18		
14	17 Sep-21 Sep	5	6	Access control Revocation of access Right capability based systems language based protection,SYSTEM SECURITY Tutorial	Giving each topic to each group and explain by them and if doubt cleared in class room	1.Opearting System Concepts by Avi Silberschatz, Galvin chapter 15, Pg no. 621-654	PPTs on system protection by silbertz , Chalk Board	19/9/18 5/9/18 6/9/18 14/9/18 21/9/18		
25 Sept- 29 Sept - Sessional- II										

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