



Maharshi Karve Stree Shikshan Samstha's

Cummins College of Engineering For Women, Nagpur

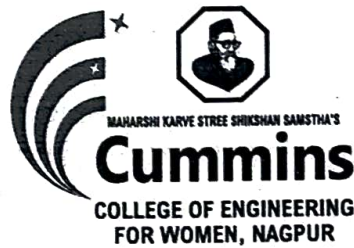
An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University

(Approved by AICTE, New Delhi & Directorate of Technical Education, Government of Maharashtra, Mumbai)



Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering



Scheme: 2026

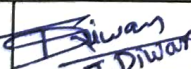
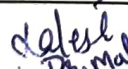
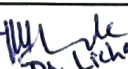
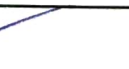
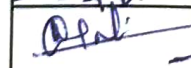
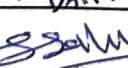
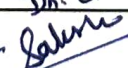
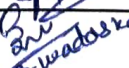
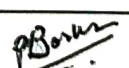
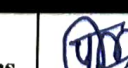
Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

Scheme Summary

SCHEME SUMMARY						
Semester	Credits	Hours	Marks	No. of Theory Heads	No. of Practical Heads	Total Heads
I	20	25	700	6	4	10
II	20	25	750	6	4	10
III	20	27	850	5	5	10
IV	20	26	900	6	4	10
V	20	24	800	6	4	10
VI	20	24	800	6	3	9
VII	20	25	750	5	2	7
VIII	20	34	500	2	1	3
Total	160	210	6050	42	27	69

BoS Members					
					
BoS Chairperson		Dean Academics		Principal	

Principal

MKSSS's Cummins College of Engineering
 For Women, Nagpur.



Board of Studies of Computer Engineering Department

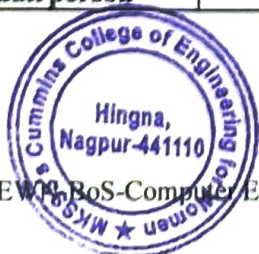
B. Tech. Computer Engineering

Scheme: 2026

Curriculum Framework

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	08	08	-	-	-	-	-	-	16
Engineering Science Course		06	04	-	-	-	-	-	-	10
Program Core Course (PCC)	Program Courses	-	02	11	10	14	08	06		51
Program Elective Course (PEC)		-	-	-	-	-	03	07	06	16
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	-	-	03	02	03	03	-	-	11
Open Elective (OE) Other than a particular program		-	-	-	-	02	02	03	-	07
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	02	02	-	02	-	02	-	-	08
Ability Enhancement Course (AEC -01, AEC-02)	Humanities Social Science and Management (HSSM) (14)	02	-	-	02	01	-	-	-	05
Entrepreneurship/Economics/Management Courses		-	-	02	02	-	-	-	-	04
Indian Knowledge System (IKS)		-	02	-	-	-	-	-	-	02
Value Education Course (VEC)		-	-	02	02	-	-	-	-	04
Research Methodology	Experiential Learning Courses	-	-	-	-	-	02	-	-	02
Comm. Engg. Project (CEP)/Field Project (FP)		-	-	02	-	-	-	-	-	02
Project		-	-	-	-	-	-	04	-	04
Internship/ OJT		-	-	-	-	-	-	-	14	14
Co-curricular Courses (CC)	Liberal Learning Courses	02	02	-	-	-	-	-	-	04
Total Credits (Major)		20	20	20	20	20	20	20	20	160

BoS Members						
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For Women, Nagpur.

Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

Sr. No.	Course Category / BOS	Course Code	Name of Course	Teaching Scheme (hrs.)			Credits	Evaluation Scheme						
				L	T	P		Theory			Practical			Total
								TAE	CAE	ESE	CE	IE	EE	Marks
SEMESTER I														
1	BSC/ ASH		Linear Algebra and Differential Calculus	3	1	-	4	25	25	50	-	-	-	100
2	BSC/ ASH		Materials Chemistry	3	-	-	3	25	25	50	-	-	-	100
3	BSC/ASH		Materials Chemistry Laboratory	-	-	2	1	-	-	-	25	25	-	50
4	ESC / CE		Programming for Problem Solving	3	-	-	3	25	25	50	-	-	-	100
5	ESC/CE		Programming for Problem Solving Laboratory	-	-	2	1	-	-	-	25	25	-	50
6	ESC / ETC		Digital Circuits	2	-	-	2	25	25	50	-	-	-	100
7	VSEC/ CE		Computer Workshop & Drone Technology	-	-	4	2	-	-	-	25	25	-	50
8	AEC/ ASH		Professional Communication Skills	1	-	-	1	10	15	25	-	-	-	50
9	ASH		Professional Communication Skills Laboratory	-	-	2	1	-	-	-	25	25	-	50
10	CC/ ASH		Liberal Learning Course -I	-	2	-	2	-	-	-	50	-	-	50
TOTAL				25			20	-	-	-	-	-	-	700

BoS Members						
BoS Chairperson		Dean Academics		Principal		



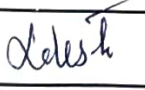
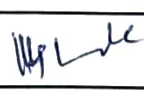
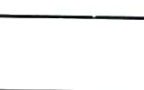
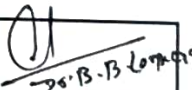
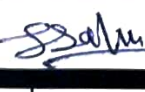
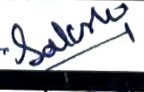
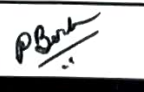
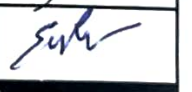
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				L	T	P		Theory			Practical			Total
								TAE	CAE	ESE	CE	IE	EE	Mark s
SEMESTER II														
1	BSC/ASH		Probability and Statistical Methods	3	-	-	3	25	25	50	-	-	-	100
2	BSC/ASH		Probability and Statistical Methods Laboratory	-	-	2	1	-	-	-	25	25	-	50
3	BSC/ASH		Applied Physics	3	-	-	3	25	25	50	-	-	-	100
4	BSC/ASH		Applied Physics Laboratory	-	-	2	1	-	-	-	25	25	-	50
5	ESC/CSE		Object Oriented Programming	3	-	-	3	25	25	50	-	-	-	100
6	ESC / CSE		Object Oriented Programming Laboratory	-	-	2	1	-	-	-	25	25	-	50
7	PCC/CE		Computer Architecture & Organization	2	-	-	2	25	25	50	-	-	-	100
8	VSEC/CE		Web Development Technology	-	-	4	2	-	-	-	25	25	-	50
9	IKS		Ancient Indian Knowledge	2	-	-	2	25	25	50	-	-	-	100
10	CC/ASH		Liberal Learning Course -II	-	2	-	2	-	-	-	50	-	-	50
TOTAL				25			20	-	-	-	-	-	-	750

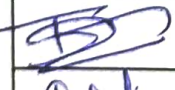
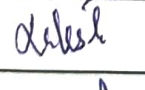
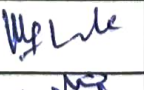
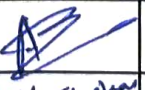
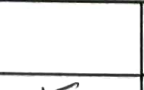
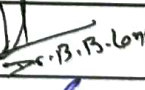
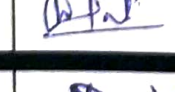
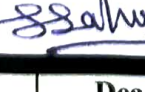
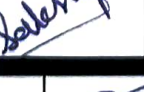
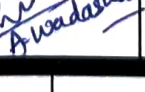
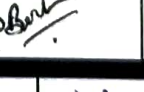
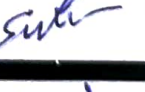
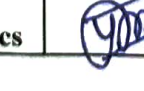
BoS Members						
						
BoS Chairperson		Dean Academics		Principal		

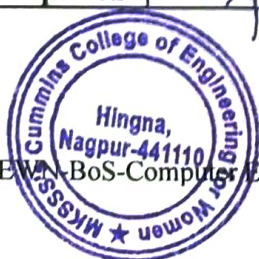
Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

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				L	T	P		Theory			Practical			Total
								TA E	CA E	ESE	CE	IE	EE	Marks
SEMESTER III														
1	PCC/ CE		Foundation of Discrete Mathematics	3	-	-	3	25	25	50	-	-	-	100
2	PCC/ CE		Data Structures	3	-	-	3	25	25	50	-	-	-	100
3	PCC/CE		Data Science & Analytics	3	-	-	3	25	25	50	-	-	-	100
4	MDM/CE		Refer Basket MDM-I	2	-	-	2	25	25	50	-	-	-	100
5	ED/ASH		Industrial Economics & Entrepreneurship Development	2	-	-	2	25	25	50	-	-	-	100
6	PCC / CE		Data Structures Laboratory	-	-	2	1	-	-	-	25	-	25	50
7	PCC/ CE		Data Science & Analytics Laboratory	-	-	2	1	-	-	-	25	-	25	50
8	MDM/ CE		MDM-I Laboratory	-	-	2	1	-	-	-	25	25	-	50
9	VEC/ASH		Advanced Communication Skills	-	-	4	2	-	-	-	25	25	50	100
10	ELC/ CE		Community Engagement Project	-	-	4	2	-	-	-	25	25	50	100
TOTAL				27			20	-	-	-	-	-	-	850

BoS Members						
						
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(Approved by AICTE, New Delhi & Directorate of Technical Education, Government of Maharashtra, Mumbai)

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Scheme: 2026

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				L	T	P		Theory			Practical			Total
								TAE	CAE	ESE	CE	IE	EE	Marks
SEMESTER V														
1	PCC / CE		UI/UX Design	3	-	-	3	25	25	50	-	-	-	100
2	PCC / CE		Computer Networks	3	-	-	3	25	25	50	-	-	-	100
3	PCC / CE		Artificial Intelligence & Machine Learning	3	-	-	3	25	25	50	-	-	-	100
4	PCC / CE		Theory of Computation	2	-	-	2	25	25	50	-	-	-	100
5	MDM/CE		Refer Basket MDM-III	3	-	-	3	25	25	50	-	-	-	100
6	OE-I/CE		Open Elective-I	2	-	-	2	25	25	50	-	-	-	100
7	PCC/ CE		UI/UX Design Laboratory	-	-	2	1	-	-	-	25	-	25	50
8	PCC/ CE		Computer Networks Laboratory	-	-	2	1	-	-	-	25	25	-	50
9	PCC/ CE		Artificial Intelligence & Machine Learning Laboratory	-	-	2	1	-	-	-	25	-	25	50
10	AEC/ASH		Soft Skills	-	-	2	1	-	-	-	25	25	-	50
TOTAL				24			20	-	-	-	-	-	-	800

BoS Members						
BoS Chairperson		Dean Academics		Principal		

Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

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				L	T	P		Theory			Practical			Total	
								TAE	CAE	ESE	CE	IE	EE	Marks	
SEMESTER VI															
1	PCC / CE		Software Engineering & Project Management	3	-	-	3	25	25	50	-	-	-	100	
2	PCC / CE		Information and Network Security	3	-	-	3	25	25	50	-	-	-	100	
3	PEC / CE		Program Elective Course -I	3	-	-	3	25	25	50	-	-	-	100	
4	MDM / CE		Refer Basket MDM-IV	3	-	-	3	25	25	50	-	-	-	100	
5	OE-II/CE		Open Elective -II	2	-	-	2	25	25	50	-	-	-	100	
6	ELC/CE		Research Methodology	2	-	-	2	25	25	50	-	-	-	100	
7	PCC/ CE		Software Engineering & Project Management Laboratory	-	-	2	1	-	-	-	25	25	-	50	
8	PCC/ CE		Information and Network Security Laboratory	-	-	2	1	-	-	-	25	-	25	50	
9	VSEC/ CE		Full Stack Module-II	-	-	4	2	-	-	-	25	25	50	100	
TOTAL				24			20	-	-	-	-	-	-	800	

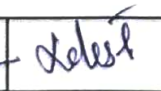
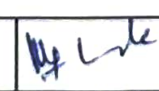
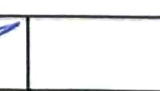
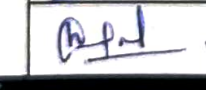
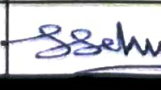
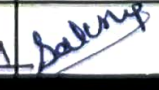
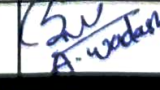
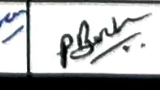
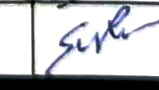
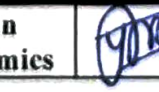
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B. Tech. Computer Engineering

Scheme: 2026

Sr. No.	Course Category / BOS	Course Code	Name of Course	Teaching Scheme (hrs.)			Credits	Evaluation Scheme						Total Marks
								Theory			Practical			
				L	T	P		TAE	CAE	ESE	CE	IE	EE	
SEMESTER VII														
1	PCC / CE		Compiler Design	3	-	-	3	25	25	50	-	-	-	100
2	PCC / CE		Parallel and Distributed Computing	3	-	-	3	25	25	50	-	-	-	100
3	PEC / CE		Program Elective course -II	3	-	-	3	25	25	50	-	-	-	100
4	PEC / CE		Program Elective course -III	3	-	-	3	25	25	50	-	-	-	100
5	OE-III/CE		Open Elective -III	3	-	-	3	25	25	50	-	-	-	100
6	PEC / CE		Program Elective course -II Laboratory	-	-	2	1	-	-	-	25	25	-	50
7	ELC/ CE		Project	-	-	8	4	-	-	-	50	50	100	200
TOTAL				25			20	-	-	-	-	-	-	750

BoS Members						
						
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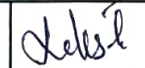
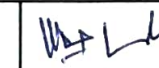
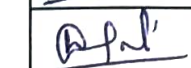
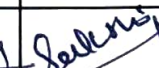
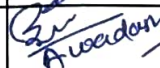
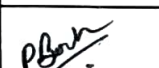
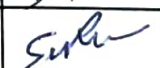
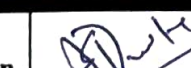
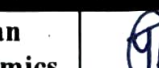


Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

Sr. No.	Course Category / BOS	Course Code	Name of Course	Teaching Scheme (hrs.)			Credits	Evaluation Scheme						
				L	T	P		Theory			Practical			Total Marks
								TAE	CAE	ESE	CE	IE	EE	
SEMESTER VIII														
1	PEC / CE		Program Elective Course -IV (NPTEL-I)	3	-	-	3	25	25	50	-	-	-	100
2	PEC / CE		Program Elective Course -V (NPTEL-II)	3	-	-	3	25	25	50	-	-	-	100
3	ELC/ CE		Internship	-	-	28	14	-	-	-	75	75	150	300
TOTAL				34			20	-	-	-	-	-	-	500

BoS Members						
						
BoS Chairperson		Dean Academics		Principal		

Principal

MKSSS's Cummins College of Engineering For Women, Nagpur,



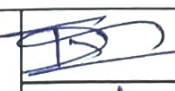
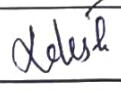
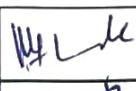
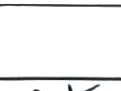
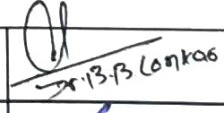
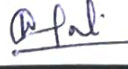
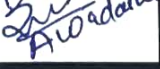
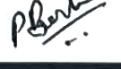
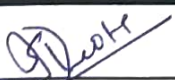
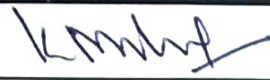
Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

Program Elective Basket

Sr. No	Program Elective - I (Sem-VI)	Program Elective- II (T/P) (Sem-VII)	Program Elective -III (Sem-VII)	NPTEL-1 Basket for Elective-IV (Sem-VIII)	NPTEL-2 Basket for Elective -V (Sem-VIII)
1	Deep Learning	Natural Language Processing	Generative AI	NPTEL/SWAYAM courses offered will be approved by BoS before the commencement of Academic Session	NPTEL/SWAYAM courses offered will be approved by BoS before the commencement of Academic Session
2	Mobile Computing	Cloud Computing	Big Data Computing		
3	Advance Cyber Security and Applications	Data Governance	Digital Forensics		
4	Blockchain Technology	DevOps	Big Data and Tools		

BoS Members						
						
BoS Chairperson		Dean Academics		Principal		

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**MKSS's Cummins College of Engineering
 For Women, Nagpur.**

11 Out of 14 | Page



Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

Multidisciplinary Minor (MDM) Basket

Offering Department	Eligible students	MDM-I 3 rd Semester	MDM-II 4 th Semester	MDM-III 5 th Semester	MDM-IV 6 th Semester
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Department's BoS wise baskets of MDM Courses with Eligible students				
Host /BoS / Department	Name of the MDM Course	Students Eligible for Registration / learning		
		ETC	ME	CE/CSE (AIML)
ETC	Sensors and Systems		√	√
	Microcontroller and Applications		√	√
	Analog and Digital Communication		X	X
	Wireless Sensor Networks		X	X
	Internet of Things and its Applications		√	√
ME	Renewable Energy sources	√		X
	3D Printing and Additive Manufacturing	√		X
	Automobile Engineering	X		√
	Industrial Robotics & Digital Manufacturing	X		√
	Computer Aided Design	X		X
CE/CSE (AI/ML)	Data Structures	√	√	
	Database System	√	X	
	Software Engineering and Project Management	X	X	
	Artificial Intelligence & Machine Learning	X	√	
	Operating Systems	√	X	

BoS Members						
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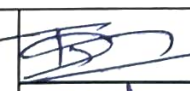
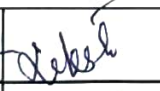
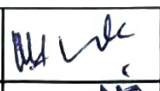
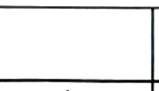
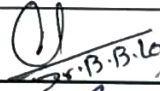
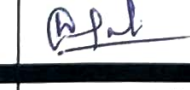
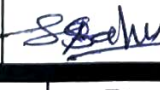
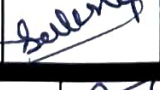
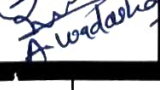
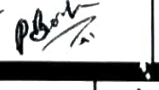
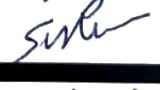
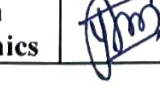
Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

Open Elective Baskets

Offering Department	OE-I	OE-II	OE-III
	Semester 5th	Semester 6th	Semester 7th
CE	1. Mobile Application Development	1. Quantum Computing	1. Cloud Computer
	2. Introduction to Data Science	2. Introduction Machine Learning	2. Data Visualization
	3. Prompt Engineering	3. Cyber Security	3. Software Testing
ETC	1. Sensors & Actuators	1. Adhoc Network	1. Mobile Communication
	2. Mechatronics	2. Communication Systems	2. Drone and UAV Electronics
	3. Industrial IOT	3. Biomedical Engineering	3. AR-VR 4. Smart Mobility
ME	1. Production Planning & Control	1. Computer Integrated Manufacturing Systems	1. Energy Conservation and Management
	2. Refrigeration and Air Conditioning	2. Introduction to Robotics	2. Product Design and Development
	3. Operation Research	3. Rural Innovation & Technologies	3. Supply Chain Management
CSE (AI/ML)	1. Python Programming	1. Deep Learning	1. Generative AI
	2. Ethics in AI	2. Cyber Security	2. Industrial AI
	3. Digital Forensics	3. Optimization Techniques	3. Predictive Analytics
ASH	1. Organisational Behaviour & Engineering Psychology	1. Circular Economy Through Indian Practices	1. Applied statistics with R Programming
	2. Intellectual Property Rights	2. Bioengineering	2. Waste Management

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MKSS's Cummins College of Engineering
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Board of Studies of Computer Engineering Department

B. Tech. Computer Engineering

Scheme: 2026

**Minor Specialization Courses offered by Computer Engineering Department
Additional Minor Degree (18-20) for Other Students
Specialization in
Computer Engineering**

Additional Minor Degree Course Basket

Sr. No	Courses	Credits
Group A: Any Three		
1	Data Structures	3
2	Computer Networks	3
3	Cryptography and Network Security	3
4	Blockchain Technology	3
5	Object Oriented Programming Using Java (Incl. Lab)	3+1
Group B: NPTEL Courses Basket (Any Two)		
6	Introduction to LLM	4(12 Week)
7	Privacy and Security in Online social media	4(12 Week)
8	Hardware Security	4(12 Week)
9	Data Analytics Using Python	3(8 Week)
10	Big Data Computing	3 (8 Week)
11	Gen AI	3(8 Week)

- For Additional Minor Student should earn 10 credits from Group A and 8 credits from Group B

BoS Members						
BoS Chairperson		Dean Academics		Principal		



Principal
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