



Maharshi Karve Stree Shikshan Samstha's
**Cummins College of Engineering
for Women**

Sharpening Engineering Acumen with a difference

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Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University



PROGRAMME ARTICULATION MATRIX

COURSE – ELECTRONICS & TELECOMMUNICATION ENGINEERING



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Mouje Sukli (Gupchup), Hingna, Nagpur-441110



CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

Program Articulation Matrix

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1-	PO11	PO12	PSO1	PSO2	PSO3
FIRST SEMESTER															
MATHEMATICS - I	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
APPLIED PHYSICS	1	1.8	-	-	-	-	-	-	-	-	-	1	-	-	-
ENERGY AND ENVIRONMENT	3	3	3	-	-	3	3	-	-	-	-	-	-	-	-
COMMUNICATIONS SKILLS	-	-	-	-	-	-	-	-	-	2.25	-	-	-	-	-
ENGINEERING GRAPHICS	2	-	2	-	-	-	-	-	-	1	-	1	-	-	-
BASICS OF CIVIL AND MECHANICAL ENGINEERING	2	-	-	-	-	1	-	2	-	-	-	1.75	-	-	-
APPLIED PHYSICS LAB	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-
ENERGY AND ENVIRONMENT LAB	3	3	-	-	3	-	-	-	-	-	-	-	-	-	-
COMMUNICATION SKILLS LAB	-	-	-	-	-	-	-	-	-	2.5	-	-	-	-	-
ENGINEERING GRAPHICS LAB	2	-	2	-	-	-	-	-	-	1	-	1	-	-	-
SECOND SEMESTER															
MATHEMATICS - II	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
ADVANCED ENGINEERING MATERIALS	1.8	1.8	-	-	-	-	-	-	-	-	-	1.4	-	-	-
APPLIED CHEMISTRY	3	3	3	-	-	-	3	-	-	-	-	-	-	-	-
COMPUTATIONAL SKILLS	2.8	2.2	2	-	2.5	-	-	-	-	-	-	1.4	-	-	-
BASIC ELECTRICAL ENGINEERING	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-

Shastri

 Dr. Sanjivani Shashtri

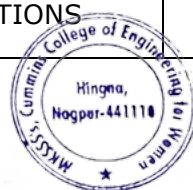
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 Prof. Sharayu Deote

Shukla
 Dr. Mahesh Shukla

Gorantiwar
 Dr. Milind Khanapurkar
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Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1-	PO11	PO12	PSO1	PSO2	PSO3
ENGINEERING MECHANICS	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
INDIAN CULTURE AND CONSTITUTION	-	-	-	-	-	1.4	1	2	-	-	-	-	-	-	-
WORKSHOP PRACTICES	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-
ADVANCED ENGINEERING MATERIALS LAB	-	2	-	-	-	-	-	-	-	-	-	1.5	-	-	-
APPLIED CHEMISTRY LAB	3	-	-	3	3	-	-	-	-	-	-	-	-	-	-
COMPUTATIONAL SKILLS LAB	3	2.2	3	2.5	-	-	-	-	-	-	-	1.75	-	-	-
Third Semester															
MATHEMATICS - III	3	3	-	1	-	-	-	-	-	-	-	-	1	-	-
COMPONENETS FOR ELECTRONIC CIRCUIT DESIGN	3	3	-	-	-	-	-	-	-	-	-	-	3	-	3
DIGITAL SYSTEM DESIGN	3	2	1	-	-	-	-	-	-	-	-	-	3	-	1.6
DIGITAL SYSTEM DESIGN LAB	3	1.8	1	-	-	-	-	-	-	-	-	-	3	-	1
NETWORK THEORY	2	2	-	-	-	-	-	-	-	-	-	-	3	-	2
SIGNAL AND SYSTEM	2.4	2.6	-	-	-	-	-	-	-	-	-	-	3	-	2
MEASUREMENTS AND INSTRUMENTATIONS	2.8	2.2	1	-	-	-	-	-	-	-	-	-	3	-	1.2
ELECTRONICS WORKSHOP LAB	1.25	1.5	-	-	-	-	-	-	-	-	-	-	3	-	2
Fourth Semester															
MICROCONTROLLER AND APPLICATIONS	3	2.6	3	-	2.75	-	-	-	-	-	-	-	3	-	2



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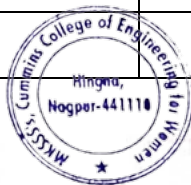
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MICROCONTROLLER AND APPLICATIONS LAB	3	2.7	-	-	-	-	-	-	-	-	-	-	3	-	2
ANALOG AND DIGITAL COMMUNICATION	3	2	-	-	-	1	-	-	-	-	-	-	3	-	1
ANALOG AND DIGITAL COMMUNICATION LAB	2.3	2.3	3	-	2	-	-	-	-	-	-	-	3	-	2.8
ANALOG SYSTEM DESIGN	1.4	2.2	-	-	-	-	-	-	-	-	-	-	3	-	2.3
DATA STRUCTURE & ALGORITHMS	3	3	2.3	-	2	-	-	-	-	-	-	-	3	-	2
Numerical Mathematics and Probability Using MATLAB	3	3	-	1	-	-	-	-	-	-	-	-	3	-	-
PROGRAMMIN AND PROBLEM SOLVING	3	3	1	-	3	-	-	-	-	-	-	2	3	-	2
PROGRAMMIN AND PROBLEM SOLVING LAB	3	3	1	-	3	-	-	-	-	-	-	2	3	-	2
UNIVERSAL HUMAN VALUES	-	-	-	-	-	-	-	-	-	2.4	-	-	1	3	2
Fifth Semester															
EMBEDDED SYSTEM DESIGN	2.75	2.5	-	-	-	-	-	-	-	-	-	-	3	-	2
EMBEDDED SYSTEM DESIGN LAB	2.7	2	3	-	3	-	-	-	-	-	-	-	3	-	2
ELECTROMAGNETICS WAVES	2.6	2.3	-	2	-	-	-	-	-	-	-	-	3	-	2.6
DIGITAL SIGNAL PROCESSING	3	3	1	-	-	-	-	-	-	-	-	-	3	-	1
DIGITAL SIGNAL PROCESSING LAB	3	3	1	-	-	-	-	-	-	-	-	-	3	-	1.6
INDUSTRIAL ECONOMICS & ENTREPRENEURSHIP DEVELOPMENT	-	-	-	-	-	2	-	-	-	-	3	<i>Kindred</i>	-	3	1



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OPERATING SYSTEM (PE)	3	3	3	3	-	-	-	-	-	-	-	-	3	2	-
SENSORS AND SYSTEM (PE)	2.6	2.2	3	-	-	-	-	-	-	-	-	-	3	-	2
ELECTRONICS WORKSHOP-II	2	2	-	-	-	-	-	-	-	-	-	-	3	-	2
Sixth Semester															
COMPUTER COMMUNICATION NETWORK	3	2	-	-	-	-	-	-	-	-	-	-	3	-	1.2
COMPUTER COMMUNICATION NETWORK LAB	3	2	-	-	-	-	-	-	-	-	-	-	3	-	2
INTERNET OF THINGS	3	3	2.5	-	-	-	-	-	-	-	-	-	3	-	2
INTERNET OF THINGS LAB	3	3	2.5	-	-	-	-	-	-	-	-	-	3	-	2
WIRELESS SENSOR NETWORK	2.8	3	-	-	-	-	-	-	-	-	-	-	-	-	-
WIRELESS SENSOR NETWORK LAB	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Data Base Management System (PE)	3	2.8	-	-	-	-	-	-	-	-	-	-	3	-	2
CONTROL SYSTEM ENGINEERING (PE)	2	2	-	-	-	-	-	-	-	-	-	-	3	-	2
INDUSRIAL ELECTRONICS (OE-I)	3	1	-	-	-	-	-	-	-	-	-	-	3	-	2
Effective Technical Communication	-	-	-	-	-	-	-	-	-	2.5	-	-	-	3	1



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Seventh Semester

WEB TECHNOLOGY (PE)	2	2	1	-	3	-	-	-	-	-	-	-	3	2	2
WEB TECHNOLOGY LAB	2	2	1	-	3	-	-	-	-	-	-	-	3	2	2
AUDIO AND VIDEO ENGINEERING (PE)	3	2	2	-	3	-	-	-	-	-	-	-	3	-	1.7
AUDIO AND VIDEO ENGINEERING LAB	2	-	-	-	-	2	-	-	-	-	-	-	3	-	1
Data Science and Cloud Computing	3	2	2	-	2.5	-	-	-	-	-	1	1	3	-	1
Data Science and Cloud Computing LAB	3	2	2	-	2.75	-	-	-	-	-	2	1	3	-	1
MICROWAVE AND RADAR ENGINEERING	3	-	-	-	-	2.5	-	-	-	-	-	-	3	-	2
MICROWAVE AND RADAR ENGINEERING LAB	3	-	-	-	-	3	-	-	-	-	-	-	3	-	2
Fundamentals of Machine Learning (PE)	3	3	-	-	-	-	-	-	-	-	-	-	3	-	2
OPTICAL COMMUNICATION (PE)	3	2	-	-	-	-	-	-	-	-	-	-	3	-	1
Finance and Cost Management (OPEN ELE-II)	3	2.8	2	-	2	-	-	-	-	-	-	-	3	3	-
BIO-ENGINEERING (OE-II)	2.8	2.6	3	-	2.8	-	-	-	-	-	-	-	3	-	3
Joy of Computing Using Python	2	1	1.8	2	2	1	-	2	2	1	-	2	3	2	-



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EIGHTH Semester															
CMOS VLSI Design	-	3	3	2	3	-	-	-	-	-	-	-	3	-	3
VLSI SIGNAL PROCESSING	3	3	3	3	-	2	-	-	-	-	-	-	3	-	2.2



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