



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

Sharpening Engineering Acumen with a difference

NAAC Accredited

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Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University



PROGRAMME ARTICULATION MATRIX

COURSE – MECHANICAL ENGINEERING



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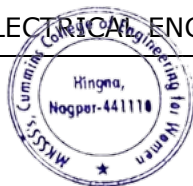
Mouje Sukli (Gupchup), Hingna, Nagpur-441110



CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, NAGPUR
DEPARTMENT OF MECHANICAL 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	2	2	-	-	2	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-



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Dr. Sanjivani Shashtri

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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	2	1.55	-.75	1.88	-.75	-	-	-	-	-	-	-.81	-	-	-
MANUFACTURING PROCESSES	3	2.8	2	-	-	-	-	-	-	-	-	-	3	3	3
MANUFACTURING PROCESSES LAB	3	3	2	-	-	-	-	-	-	-	-	-	3	3	2
Fluid Mechanics	3	2.2	-	-	-	-	-	-	-	-	-	-	3	-	-
Kinematics of Machines	2	2	1	-	-	-	-	-	-	-	-	-	-	1	-
Machine Drawing & Solid Modelling	2.7	2.3	-	-	-	-	-	-	-	-	-	-	3	3	-
MATERIAL SCIENCE & ENGINEERING	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-
SPORTS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YOGA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NSS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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NCC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fourth Semester															
MACHING PROCESSES	3	2.8	-	-	-	-	-	-	-	-	-	-	3	3	-
MACHING PROCESSES LAB	3	2.8	-	-	-	-	-	-	-	-	-	-	3	3	-
Fluid Mechanics & Hydraulic Machines	2	2.5	3	-	-	-	-	-	-	-	-	-	3	3	-
Fluid Mechanics & Hydraulic Machines Lab	2	2.5	3	-	-	-	-	-	-	-	-	-	3	3	-
MATERIAL SCIENCE & ENGINEERING	2	2	-	2	-	-	-	-	-	-	-	-	-	-	-
MATERIAL TESTING LAB	2	2.3	2	-	2	-	-	-	-	-	-	-	-	-	-
MECHANICS OF MATERIAL	2	2	2	2	-	-	-	-	-	-	-	-	-	-	-
ENGINEERING THERMODYNAMICS	3	3	2	-	-	-	-	-	-	-	-	-	3	-	-
Computer Application/Programming	2	2.5	2	-	2	-	-	-	-	-	-	-	3	3	-
PROFESSIONAL ETHICS	-	-	-	-	-	2.3	2	3	-	-	-	-	-	-	3
Fifth Semester															
Heat Transfer	-	3	3	-	-	-	-	-	-	-	-	-	3	2	-
Heat Transfer Lab	-	3	2	-	-	-	-	-	-	-	-	-	3	-	-
ENERGY CONVERSION - I	-	2.7	2	-	-	-	-	-	-	-	-	-	1.3	1.5	-
Design of Machine Element	3	2.5	-	-	-	-	-	-	-	-	-	-	3	3	-
INDUSTRIAL ECONOMICS & MANAGEMENT	-	-	-	-	-	3	-	-	3	-	3	-	-	-	3



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Mechanical Measurement and Metrology	2.7	2	-	-	-	-	-	-	-	-	-	-	-	2	-
Mechanical Measurement and Metrology Lab	3	2	-	-	-	-	-	-	-	-	-	-	-	2	-
INDUSTRIAL VISIT (PractiCe)	2.8	2	-	-	-	-	-	-	-	-	-	-	2.8	-	-
PERFORMING ART	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2
Sixth Semester															
AUTOMATION IN PRODUCTION	2.3	2.5	2.3	-	2	-	-	-	-	-	-	-	3	3	-
AUTOMATION IN PRODUCTION LAB	2.5	2	2	-	2	-	-	-	-	-	-	-	3	3	-
Energy Conversion II	3	2.8	2	-	-	-	-	-	-	-	-	-	3	2.5	-
Energy Conversion II Lab	3	2.8	2	-	-	-	-	-	-	-	-	-	3	3	-
Dynamics of Machines	1.6	1.8	-	-	-	-	-	-	-	-	-	-	2	-	-
Dynamics of Machines LAB	2.2	2.3	-	-	-	-	-	-	-	-	-	-	2	2	-
Operations Research	3	3	-	-	-	-	-	-	-	-	-	-	-	3	-
Advance Manufacturing Technique	3	2.7	-	-	-	-	-	-	-	-	-	-	3	2.5	-
Project evaluation and Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Environment Science	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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Seventh Semester															
COMPUTER AIDED DESIGN	2.5	2.5	2.2	-	2.5	-	-	-	-	-	-	-	3	3	-
Energy Conversion III	-	3	2	-	2	-	3	-	-	-	-	-	3	-	-
FINANCE & COST MANAGEMENT	3	2.8	2	-	2	-	-	-	-	-	-	-	3	3	-
DESIGN OF TRANSMISSION SYSTEM	3	3	3	-	-	-	-	-	-	-	-	-	3	3	-
SUMMER INTERNSHIP	2	3	-	-	-	-	-	-	-	-	-	-	-	2	2
Eighth Semester															
Industrial Engineering	3	2.6	2.3	-	3	-	-	-	-	-	-	-	3	3	-
Industrial Engineering LAB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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