

SCHEME OF TEACHING AND EXAMINATION
B.E. MECHANICAL ENGINEERING

III SEMESTER

Sl. No	Sub-Code	Title	Teaching Dept.	Teaching hours /week		Examination			
				Theory	Pract. /Drg.	Duration	I.A. Marks	Theory/Pract.	Total Marks
1	10MAT31	Engineering Mathematics - III	Mathematics	04	-	03	25	100	125
2	10ME32A/ 10ME32B	Material Sc. & Metallurgy / Mechanical Measurements & Metrology	Mechanical	04	--	03	25	100	125
3	10ME33	Basic Thermodynamics	Mechanical	04	--	03	25	100	125
4	10ME34	Mechanics of Materials	Mechanical	04	--	03	25	100	125
5	10ME35	Manufacturing Process I (Fundamentals of Foundry and Welding)	Mechanical	04	--	03	25	100	125
6	10ME36A/ 10ME36B	Computer Aided Machine Drawing / Fluid Mechanics	Mechanical	01 04	03 --	03	25	100	125
7	10MEL37A/ 10MEL37B	Metallography & Material Testing Lab / Mech. Measurements & Metrology Lab	Mechanical	--	03	03	25	50	75
8	10MEL38A/ 10MEL38B	Foundry & Forging lab / Machine Shop	Mechanical	--	03	03	25	50	75
TOTAL				21/24	09	24	200	700	900

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IV SEMESTER

Sl. No	Sub-Code	Title	Teaching Dept.	Teaching hours /week		Examination			
				Theory	Pract/ Drg.	Dura- tion	I.A. Marks	Theory/ Pract.	Total Marks
1	10MAT41	Engineering Mathematics - IV	Mathematics	04	-	03	25	100	125
2	10ME42A/ 10ME42B	Material Sc. & Metallurgy / Mechanical Measurements & Metrology	Mechanical	04	--	03	25	100	125
3	10ME43	Applied Thermodynamics	Mechanical	04	--	03	25	100	125
4	10ME44	Kinematics of Machines	Mechanical	04	--	03	25	100	125
5	10ME45	Manufacturing Process II	Mechanical	04	--	03	25	100	125
6	10ME46A/1 0ME46B	Computer Aided Machine Drawing / Fluid Mechanics	Mechanical	01 04	03 --	03	25	100	125
7	10MEL47A/ 10MEL47B	Metallography & Material Testing Lab / Mech. Measurements & Metrology Lab	Mechanical	--	03	03	25	50	75
8	10MEL48A/ 10MEL48B	Foundry & Forging lab / Machine Shop	Mechanical	--	03	03	25	50	75
TOTAL				21/24	09	24	200	700	900

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V SEMESTER

Sl. No	Sub-Code	Title	Teaching hours /week		Examination			
			Theory	Pract. / Drg.	Duration	I.A. Marks	Theory/ Pract.	Total Marks
1	10AL51	Management and Entrepreneurship	04	--	03	25	100	125
2	10ME52	Design of Machine Elements I	04	--	03	25	100	125
3	10ME53	Energy Engineering	04	--	03	25	100	125
4	10ME54	Dynamics of Machines	04	--	03	25	100	125
5	10ME55	Manufacturing Process III	04	--	03	25	100	125
6	10ME56	Turbo Machines	04	--	03	25	100	125
7	10MEL57	Fluid Mechanics & Machines Lab	--	03	03	25	50	75
8	10MEL58	Energy Conversion Engg. Lab		03	03	25	50	75
TOTAL			24	06	24	200	700	900

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VI SEMESTER

Sl. No	Sub-Code	Title	Teaching hours /week		Examination			
			Theory	Pract. / Drg.	Duration	I.A. Marks	Theory/ Pract.	Total Marks
1	10ME61	Computer Integrated Manufacturing	04	--	03	25	100	125
2	10ME62	Design of Machine Elements II	04	--	03	25	100	125
3	10ME63	Heat & Mass Transfer	04	--	03	25	100	125
4	10ME64	Finite Element Methods	04	--	03	25	100	125
5	10ME65	Mechatronics & Microprocessor	04	--	03	25	100	125
6	10ME66X	Elective 'A'	04	--	03	25	100	125
7	10MEL67	Heat & Mass Transfer Lab	--	03	03	25	50	75
8	10MEL68	CAMA Lab	--	03	03	25	50	75
TOTAL			24	06	24	200	700	900

Elective – 1 (Group A)			
10ME661	Theory of Elasticity	10ME662	Mechanics of Composite Materials
10ME663	Refrigeration & Air Conditioning	10ME664	Design of Heat Exchangers
10ME665	Non-Traditional Machining	10ME666	Knowledge Management
10ME667	Project Management	10ME668	Statistical Quality Control

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VII SEMESTER

Sl. No	Sub-Code	Title	Teaching hours /week		Examination			
			Theory	Pract/ Drg.	Dura- tion	I.A. Marks	Theory/ Pract.	Total Marks
1	10ME71	Economics	04	--	03	25	100	125
2	10ME72	Mechanical Vibrations	04	--	03	25	100	125
3	10ME73	Hydraulics and Pneumatics	04	--	03	25	100	125
4	10ME74	Operations Research	04	--	03	25	100	125
5	10ME75X	Elective B	04	--	03	25	100	125
6	10ME76X	Elective C	04	--	03	25	100	125
7	10MEL77	Design Lab	--	03	03	25	50	75
8	10MEL78	CIM and Automation Lab	--	03	03	25	50	75
TOTAL			24	06	24	200	700	900

Elective – 2 (Group B)		Elective – 3 (Group C)	
10ME751	Mechanism Design	10ME761	Experimental Stress Analysis
10ME752	Theory of Plasticity	10ME762	Tool Design
10ME753	Engineering Design	10ME763	Cryogenics
10ME754	Non Conventional Energy Sources	10ME764	Smart Materials
10ME755	Gas Dynamics	10ME765	Agile Manufacturing
10ME756	Management Information System	10ME766	Robotics
10ME757	Automation in Manufacturing	10ME767	Finance Management
10ME758	Total Quality Management	10ME768	Micro & Smart System Technology
		10ME769	Product Life Cycle Management

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VIII SEMESTER

Sl. No	Sub-Code	Title	Teaching hours /week		Examination			
			Theory	Pract/Drg.	Duration	I.A. Marks	Theory/Pract.	Total Marks
1	10ME81	Operations Management	04	--	03	25	100	125
2	10ME82	Control Engineering	04	--	03	25	100	125
3	10ME83X	Elective D	04	--	03	25	100	125
4	10ME84X	Elective E	04	--	03	25	100	125
5	10ME85L	Project Work	--	06	03	100	100	200
6	10ME86L	Seminar	--	03	--	50	--	50
TOTAL				09	15	250	500	750

Elective – 4 (Group D)		Elective – 5 (Group E)	
10ME831	Tribology	10ME841	Machine Tool Design
10ME832	Fracture Mechanics	10ME842	Industrial Engineering & Ergonomics
10ME833	Power Plant Engineering	10ME843	Bio Mass Energy Systems
10ME834	Nanotechnology	10ME844	Automotive Engineering
10ME835	Organisational Behaviour and Professional Communication	10ME845	Database Management System
10ME836	Computer Graphics	10ME846	Artificial Intelligence
10ME837	Rapid Prototyping	10ME847	Design of Experiments
10ME838	Foundry Technology	10ME848	Design for Manufacture & Assembly