

P.E.S. COLLEGE OF ENGINEERING, MANDYA
(An Autonomous Institution)
SCHEME OF TEACHING AND EXAMINATION
MECHANICAL ENGINEERING 2009-10
III Semester B.E.

Sl. No.	Sub. Code	Subject	Teaching Dept.	Credit Pattern L:T:P	Total Credits	Marks Allotted		Total Marks	
						CIE	SEE		
1.	P08MA31	Mathematic –III	Mathematics	4:0:0	4	50	50	100	
2.	P08ME32	Material Science & Metallurgy	Mechanical	4: 0:0	4	50	50	100	
3.	P08ME33	Mechanics of Materials	“	3: 2:0	4	50	50	100	
4.	P08ME34	Manufacturing Process- I	“	4: 0:0	4	50	50	100	
5.	P08ME35	Basic Thermodynamics	“	4: 0:0	4	50	50	100	
6.	P08ME36	Computer Aided Machine Drawing	“	0:0:6	3	50	50	100	
7.	P08MEL37	Metallographic & Material Testing Laboratory	“	0:0:3	1.5	50	50	100	
8.	P08MEL38	Foundry & Forging Laboratory	“	0:0:3	1.5	50	50	100	
					Total	26	400	400	800

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IV Semester B.E.

Sl. No.	Sub. Code	Subject	Teaching Dept.	Credit Pattern L:T:P	Total Credits	Marks Allotted		Total Marks	
						CIE	SEE		
1.	P08MA41	Mathematics-IV	Mathematics	4: 0:0	4	50	50	100	
2.	P08ME42	Applied Thermodynamics	Mechanical	4: 0:0	4	50	50	100	
3.	P08ME43	Mechanical Measurements & Metrology	"	4: 0:0	4	50	50	100	
4.	P08ME44	Theory of Machines -I	"	3: 2:0	4	50	50	100	
5.	P08ME45	Fluid Mechanics	"	4: 0:0	4	50	50	100	
6.	P08ME46	Manufacturing Process –II	"	3: 0:0	3	50	50	100	
7.	P08MEL47	Metrology & Measurements Laboratory	"	0:0:3	1.5	50	50	100	
8.	P08MEL48	Fluid Machinery Laboratory	"	0:0:3	1.5	50	50	100	
					Total	26	400	400	800

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V Semester B.E.

Sl. No.	Sub. Code	Subject	Teaching Dept.	Credit Pattern L:T:P	Total Credits	Marks Allotted		Total Marks	
						CIE	SEE		
1.	P08ME51	Theory of Machine –II	Mechanical	4: 0:0	4	50	50	100	
2.	P08ME52	Design of Machine Elements – I	“	4: 0:0	4	50	50	100	
3.	P08ME53	Turbomachines	“	3: 2:0	4	50	50	100	
4.	P08ME54	Manufacturing Process- III	“	4: 0:0	4	50	50	100	
5.	P08ME55	Engineering Economics	“	3: 0:0	3	50	50	100	
6.	P08ME56	Mechatronics & Microprocessor	“	3: 0:2	4	50	50	100	
7.	P08MEL57	Machine Shop	“	0: 0:3	1.5	50	50	100	
8.	P08MEL58	Energy Conversion Laboratory	“	0: 0:3	1.5	50	50	100	
					Total	26	400	400	800

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VI Semester B.E.

Sl. No.	Sub. Code	Subject	Teaching Dept.	Credit Pattern L:T:P	Total Credits	Marks Allotted		Total Marks	
						CIE	SEE		
1.	P08ME61	Design of Machine Elements –II	Mechanical	4: 0:0	4	50	50	100	
2.	P08ME62	Mechanical Vibrations	“	4: 0:0	4	50	50	100	
3.	P08ME63	Heat & Mass Transfer	“	4: 0:0	4	50	50	100	
4.	P08ME64	Management & Entrepreneurship	“	3: 0:0	3	50	50	100	
5.	P08ME65	CAD / CAM	“	4: 0:0	4	50	50	100	
6.	P08ME66	Elective –I	“	4: 0:0	4	50	50	100	
7.	P08MEL67	CAM Laboratory	“	0:0:3	1.5	50	50	100	
8.	P08MEL68	Heat & Mass Transfer Laboratory	“	0:0:3	1.5	50	50	100	
					Total	26	400	400	800

* Code for Electives in **Group I**

Sl. No.	Sub. Code	Elective Group - I
1.	P08ME61 Y	Composite Material
2.	P08ME62 Y	Statistical Quality Control
3.	P08ME63 Y	Cryogenics
4.	P08ME64 Y	Theory of Elasticity
5.	P08ME65 Y	Project Management
6.	P08ME66 Y	Non Traditional Machining

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VII Semester B.E.

Sl. No.	Sub. Code	Subject	Teaching Dept.	Credit Pattern L:T:P	Total Credits	Marks Allotted		Total Marks	
						CIE	SEE		
1.	P08ME71	Automatic Control Engineering	Mechanica I	4: 0:0	4	50	50	100	
2.	P08ME72	Hydraulics & Pneumatics	“	3: 0:0	3	50	50	100	
3.	P08ME73	Finite Element Methods	“	4: 0:0	4	50	50	100	
4.	P08ME74	Elective – II	“	4: 0:0	4	50	50	100	
5.	P08ME75	Elective – III	“	4: 0:0	4	50	50	100	
6.	P08ME76	Production Management	“	4: 0:0	4	50	50	100	
7.	P08MEL77	Design Lab	“	0:0:3	1.5	50	50	100	
8.	P08MEL78	Simulation Lab		0:0:3	1.5	50	50	100	
					Total	26	400	400	800

* Project Work – Preliminary

* Code for Electives in Group II & III

Sl. No.	Sub. Code	Elective Group - II	Sl. No.	Sub. Code	Elective Group – III
1.	P08ME71Y	I.C. Engines	1.	P08ME71 Z	Computer Integrated Manufacturing
2.	P08ME72Y	Tribology	2.	P08ME72 Z	Operation Management
3.	P08ME73Y	Industrial Automation	3.	P08ME73 Z	Theory of Plasticity
4.	P08ME74Y	Gas Dynamics	4.	P08ME74 Z	Tool Design & Engineering
5.	P08ME75Y	Automotive Engineering	5.	P08ME75 Z	Experimental Stress Analysis
6.	P08ME76Y	Product Design & Manufacturing	6.	P08ME76 Z	Refrigeration and Air conditioning

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VIII Semester B.E.

Sl. No.	Sub. Code	Subject	Teaching Dept.	Credit Pattern L:T:P	Total Credits	Marks Allotted		Total Marks	
						CIE	SEE		
1.	P08ME81	Industrial Robotics	Mechanical	3: 0:0	3	50	50	100	
2.	P08ME82	Operation Research	"	3: 0:0	3	50	50	100	
3.	P08ME83	Elective -IV	"	3: 0:0	3	50	50	100	
4.	P08ME84	Elective -V	"	3: 0:0	3	50	50	100	
5.	P08ME85	Project Work	"	0: 0:20	10	100	100	200	
6.	P08ME86	Industrial Visit and Seminar	"	0: 0:4	2	---	50	50	
					Total	24	300	350	650

* Code for Electives in Group IV & V

Sl. No.	Sub. Code	Elective Group - IV	Sl. No.	Sub. Code	Elective Group - V
1.	P08ME81Y	Organizational Behaviour	1.	P08ME81 Z	Non Destructive Testing
2.	P08ME82 Y	Foundry Technology	2.	P08ME82 Z	Rapid Prototyping
3.	P08ME83 Y	CNC Machines	3.	P08ME83 Z	Data Base Management System
4.	P08ME84 Y	Machine Tool Design	4.	P08ME84 Z	Power Plant Engineering
5.	P08ME85 Y	Non- Conventional Engineering Source	5.	P08ME85 Z	Maintenance Engineering
6.	P08ME86 Y	Computational Fluid Dynamics	6.	P08ME86 Z	Refrigeration & Air Conditioning
7.	P08ME87 Y	Inter Disciplinary Subject	7.	P08ME87 Z	Inter Disciplinary Subject