

Mechanical Engineering

Semester III

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	19
	Mechanics of Solid	4	0	2	6	70	30	30	20	150	19
	Engineering Thermodynamics	4	1	0	5	70	30	30	20	150	19
	Kinematics of Machines	3	1	0	4	70	30	30	20	150	19
	Material Science and Metallurgy	3	0	2	5	70	30	30	20	150	19
	Manufacturing Process-1	3	0	2	5	70	30	30	20	150	19
	Total	20	4	6	30						

Semester IV

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Complex Variables and Numerical Methods	3	2	0	5	70	30	30	20	150	19
	Engineering Economics and Management	3	0	0	3	70	30	0	0	100	19
	Machine Design & Industrial Drafting	3	0	2	5	70	30	30	20	150	19
	Fluid Mechanics	4	0	2	6	70	30	30	20	150	19
	Manufacturing Processes -II	3	0	2	5	70	30	30	20	150	19
	Theory of Machines	3	0	2	5	70	30	30	20	150	19
	Total	19	2	8	29						

Semester V

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Heat and Mass Transfer	3	0	2	5	70	30	30	20	150	19
	Fluid Power Engineering	3	0	2	5	70	30	30	20	150	19
	Computer Aided Design	3	0	2	5	70	30	30	20	150	19
	Design of Machine Elements	3	0	2	5	70	30	30	20	150	19
	Mechanical Measurement & Metrology	3	0	2	5	70	30	30	20	150	19
	Open Elective / Institute Elective	3	0	2	5	70	30	30	20	150	19
	Total	18	0	12	30						

Semester VI

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Dynamics of Machinery	3	0	2	5	70	30	30	20	150	19
	Refrigeration and Air-conditioning	3	0	2	5	70	30	30	20	150	19
	Internal Combustion Engines	3	0	2	5	70	30	30	20	150	19
	Control Engineering	3	0	2	5	70	30	30	20	150	19
	Computer Integrated Manufacturing	3	0	2	5	70	30	30	20	150	19
	Industrial Engineering	3	0	2	5	70	30	30	20	150	19
	Total	18	0	12	30						

Semester VII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Machine Design	3	0	2	5	70	30	30	20	150	19
	Operation Research and Optimization Techniques	3	2	0	5	70	30	30	20	150	19
	Power Plant Engineering	4	0	2	6	70	30	30	20	150	19
	Production Technology	3	0	2	5	70	30	30	20	150	19
	Department Elective I	3	2	0	5	70	30	30	20	150	19
	Project -I	0	0	4	4	0	0	100	50	150	19
	Total	16	4	10	30						

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Alternate Energy Sources	3	0	2	5	70	30	30	20	150	19
	Department Elective II	3	2	0	5	70	30	30	20	150	19
	Department Elective III	3	2	0	5	70	30	30	20	150	19
	Project II	0	0	15	15	70	30	30	20	150	19
	Total	9	4	17	30						

Note: ALA Component, OEP Component and Design Module I, II and III (to be offered in 2nd Year , 3rd year and 4th year respectively) shall be displayed in the final teaching scheme