

**13. Courses of Study and Scheme of Assessment
ME ENGINEERING DESIGN**

**(2021 REGULATIONS)
(Minimum No. of credits to be earned: 70*)**

Course Code	Course Title	Hours / Week			Credits	Maximum Marks			CAT
		Lecture	Tutorial	Practical		CA	FE	Total	
III SEMESTER									
21MD__	Professional Elective – IV	3	0	0	3	50	50	100	PE
21_____	Open Elective	3	0	0	3	50	50	100	OE
21MD71	Project Work - I	0	0	12	6	50	50	100	EEC
Total 18hrs		6	0	12	12	150	150	300	
IV SEMESTER									
21MD81	Project Work - II	0	0	24	12	50	50	100	EEC
Total 24 hrs		0	0	24	12	50	50	100	
PROFESSIONAL ELECTIVE THEORY COURSES (Four to be opted)									
21MD21	Modeling of Dynamic Systems	3	0	0	3	50	50	100	PE
21MD22	Mechanics of Composites and Smart Materials	3	0	0	3	50	50	100	PE
21MD23	Industrial Tribology	3	0	0	3	50	50	100	PE
21MD24	Geometric Modeling	3	0	0	3	50	50	100	PE
21MD25	Probabilistic Methods in Mechanical Design	3	0	0	3	50	50	100	PE
21MD26	Design and Failure Analysis	3	0	0	3	50	50	100	PE
21MD27	Strategies for product development	3	0	0	3	50	50	100	PE
21MD28	Design of Automotive Systems	3	0	0	3	50	50	100	PE
21MD29	Production Tool Design	3	0	0	3	50	50	100	PE
21MD30	Human Factors Engineering	3	0	0	3	50	50	100	PE
21MD31	Rotor Dynamics	3	0	0	3	50	50	100	PE
21MD32	Optimum Design of Mechanical Systems	3	0	0	3	50	50	100	PE
21MD33	Computational Fluid Dynamics	3	0	0	3	50	50	100	PE
21MD34	Advanced Strength of Materials	3	0	0	3	50	50	100	PE
21MD35	Design of Pressure Vessels	3	0	0	3	50	50	100	PE
21MD36	Fracture Mechanics	3	0	0	3	50	50	100	PE
21MD37	Experimental Stress Analysis	3	0	0	3	50	50	100	PE
21MD38	Design of Press Tools	3	0	0	3	50	50	100	PE
21MD39	Human Body Vibration Diagnostics	3	0	0	3	50	50	100	PE
21MD40	Advanced Finite Element Analysis	3	0	0	3	50	50	100	PE
OPEN ELECTIVE THEORY COURSES (One to be opted)									
21MD91	Business Analytics in Practice	3	0	0	3	50	50	100	OE
21MD92	Life Cycle Assessment and Eco-Design	3	0	0	3	50	50	100	OE
21MD93	Systems Engineering and Management	3	0	0	3	50	50	100	OE

* Indicated is the minimum number of credits to be earned by a student.

CAT – Category; PC – Professional Core; PE - Professional Elective; RMC - Research Methodology and IPR; EEC – Employability Enhancement Course; MC - Mandatory Course; Grade – Completed / Not Completed; OE – Open Elective.

