

ME – STRUCTURAL ENGINEERING

13. Courses of Study and Scheme of Assessment

(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									
21CS__	Professional Elective IV	3	0	0	3	50	50	100	PE
21CS__	Open Elective	3	0	0	3	50	50	100	OE
21CS71	Project Work I	0	0	12	6	50	50	100	EEC
Total 18 Hrs		6	0	12	12	150	150	300	
IV SEMESTER									
21CS81	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)									
21CS21	Structural Stability	3	0	0	3	50	50	100	PE
21CS22	Prestressed concrete Structures	3	0	0	3	50	50	100	PE
21CS23	Bridge Engineering	3	0	0	3	50	50	100	PE
21CS24	Aseismic Design of Structures	3	0	0	3	50	50	100	PE
21CS25	Behaviour and Design of Tall Buildings	3	0	0	3	50	50	100	PE
21CS26	Advanced concrete Technology	3	0	0	3	50	50	100	PE
21CS27	Optimization Techniques	3	0	0	3	50	50	100	PE
21CS28	Shell and Spatial Structures	3	0	0	3	50	50	100	PE
21CS29	Experimental Techniques and Instrumentation	3	0	0	3	50	50	100	PE
21CS30	Theory of Plates	3	0	0	3	50	50	100	PE
21CS31	Industrial Structures	3	0	0	3	50	50	100	PE
21CS32	Mechanics of Composite Materials	3	0	0	3	50	50	100	PE
21CS33	Soft Computing In Structural Engineering	3	0	0	3	50	50	100	PE
21CS34	Design of Steel Concrete Composite Structures	3	0	0	3	50	50	100	PE
21CS35	Prefabricated Structures	3	0	0	3	50	50	100	PE
21CS36	Maintenance and Rehabilitation of Structures	3	0	0	3	50	50	100	PE
21CS37	Smart Materials and Smart Structures	3	0	0	3	50	50	100	PE
21CS38	Structural Health Monitoring	3	0	0	3	50	50	100	PE
21CS39	Foundation structures	3	0	0	3	50	50	100	PE
21CS40	Ground Improvement Techniques	3	0	0	3	50	50	100	PE

21CS41	Geotechnical Earthquake Engineering	3	0	0	3	50	50	100	PE
21CS42	Soil-Structure Interaction	3	0	0	3	50	50	100	PE

* 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