

ME –INFRASTRUCTURE 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	
I SEMESTER									
21CN01	Applied Statistics and Reliability	3	1	0	4	50	50	100	PC
21CN02	Pavement Analysis Design & Evaluation	3	1	0	4	50	50	100	PC
21CN03	Design of urban water supply and waste treatment systems	3	0	0	3	50	50	100	PC
21CN04	Construction Methods and Equipment	3	0	0	3	50	50	100	PC
21CN05	Geographic Information Systems	3	0	0	3	50	50	100	PC
21CN06	Research methodology & IPR	2	0	0	2	50	50	100	RMC
21CN72	Audit course -I	2	0	0	Grade	100	0	100	MC
21CN51	Highway and Pavement Engineering Laboratory	0	0	4	2	50	50	100	PC
21CN52	Geographic Information System Laboratory	0	0	4	2	50	50	100	PC
Total 29 Hrs		19	2	8	23	500	400	900	
II SEMESTER									
21CN07	Construction Project Management	3	1	0	4	50	50	100	PC
21CN08	Traffic Engineering and Transport Planning	3	1	0	4	50	50	100	PC
21CN__	Professional Elective I	3	0	0	3	50	50	100	PE
21CN__	Professional Elective II	3	0	0	3	50	50	100	PE
21CN__	Professional Elective III	3	0	0	3	50	50	100	PE
21CN82	Audit course -II	2	0	0	Grade	100	0	100	MC
21CN61	Advanced Concrete lab	0	0	4	2	50	50	100	PC
21CN62	Computer Aided Project Planning and Scheduling Laboratory	0	0	4	2	50	50	100	PC
21CN63	Industry Visit & Technical Seminar	0	0	4	2	50	50	100	EEC
Total 31 Hrs		17	2	12	23	500	400	900	
III SEMESTER									
21CN__	Professional Elective IV	3	0	0	3	50	50	100	PE
21CN__	Open Elective	3	0	0	3	50	50	100	OE
21CN71	Project Work I	0	0	12	6	50	50	100	EEC
Total 18Hrs		6	0	12	12	150	150	300	
IV SEMESTER									

21CN81	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)									
21CN21	Advanced Reinforced Concrete Design	3	0	0	3	50	50	100	PE
21CN22	Advanced Structural Steel Design	3	0	0	3	50	50	100	PE
21CN23	Prestressed Concrete Structures	3	0	0	3	50	50	100	PE
21CN24	Bridge Engineering	3	0	0	3	50	50	100	PE
21CN25	Advanced Concrete Technology	3	0	0	3	50	50	100	PE
21CN26	Maintenance and Rehabilitation of Structures	3	0	0	3	50	50	100	PE
21CN27	Corrosion in Reinforced Concrete	3	0	0	3	50	50	100	PE
21CN28	Prefabricated Structures	3	0	0	3	50	50	100	PE
21CN29	Optimization Techniques	3	0	0	3	50	50	100	PE
21CN30	Experimental Techniques and Instrumentation	3	0	0	3	50	50	100	PE
21CN31	Environmental Impact Assessment	3	0	0	3	50	50	100	PE
21CN32	Modern Materials for Construction	3	0	0	3	50	50	100	PE
21CN33	Smart Materials and Smart Structures	3	0	0	3	50	50	100	PE
21CN34	City Planning and Urban Design	3	0	0	3	50	50	100	PE
21CN35	Infrastructure Planning and Management	3	0	0	3	50	50	100	PE
21CN36	Financial Management and Accounting	3	0	0	3	50	50	100	PE
21CN37	Organizational Behavior	3	0	0	3	50	50	100	PE
21CN38	Remote Sensing	3	0	0	3	50	50	100	PE
21CN39	Foundation Structures	3	0	0	3	50	50	100	PE
21CN40	Geosynthetics in Infrastructure Projects	3	0	0	3	50	50	100	PE
21CN41	Ground Improvement Techniques	3	0	0	3	50	50	100	PE
21CN42	Characterisation of Bituminous Materials	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