

2 year M. Tech. Course Curricula for Structural Engineering							
M. Tech. I semester-(M1)							
S.No.	Subject Code	Subject	Core/Elective	L	T	P	Credits
1	CE501	Advanced Structural Analysis	Core	3	0	0	3
2	CE502	Design of Reinforced Concrete Structures	Core	3	0	0	3
3	CEXXX	Elective I	Elective – I	3	0	0	3
4	CEXXX	Elective II	Elective – II	3	0	0	3
5	CEXXX	Elective III	Elective - III	3	0	0	3
6	HS520	Research Methodology and IPR	Core	2	0	0	2
		Total		15	0	4	17

2 year M.Tech. Course Curricula for Structural Engineering							
M.Tech. II semester-(M2)							
S.No.	Subject Code	Subject	Core/Elective	L	T	P	Credits
1	CE503	Solid Mechanics in Structural Engineering	Core	3	0	0	3
2	CE504	Design of Steel Structures	Core	3	0	0	3
3	CE7XX	Elective IV	Elective IV	3	0	0	3
4	CE7XX	Elective V	Elective V	3	0	0	3
	CE7XX	Elective VI	Elective VI	3	0	0	3
	CE601	Concrete Structures Laboratory	Core Lab - I	0	0	2	1
	CE801	CAD Laboratory	Elective Lab - I	0	0	2	1
5	CE602	Minor Project (Based on Specialization)	Core	0	0	6	3
6		Audit Course	Audit	2	0	0	Qualifying
		Total		17	0	10	20

2 Year M.Tech. Course Curricula for Structural Engineering							
M.Tech. III semester-(M3)							
S.No.	Subject Code	Subject	Core/Elective	L	T	P	Credits
1		Open Elective	Elective	3	0	0	3
2	CE7XX	Elective VII	Elective VII	3	0	0	3
3	CE603	Seminar and Term Paper	Core	0	0	4	2
4	CEXXX	Project-Based Learning	Core	0	0	8	4
5	CE604	Dissertation Part-I	Core	3	0	8	4
6		Audit Course	Audit	2	0	0	Qualifyi ng
		Total		11	0	20	16

2 year M. Tech. Course Curricula for Structural Engineering							
M. Tech. IV semester-(M4)							
S.No.	Subject Code	Subject	Core/Elective	L	T	P	Credits
4	CE606	Dissertation Part-II	Core	-	-	30	15
		Total					15

List of Electives-I		
	14M14MA213	Advanced Numerical Techniques
	CE701	Stability of Structures
1	CE702	Plastic Analysis of Structures
2	CE703	Hydraulic Structures
3	CE704	Geo-Environmental Engineering
4	CE705	Structural Dynamics
5	CE706	Finite Element Methods
6	CE707	Earthquake Resistant Design of Structures
7	CE708	Design of Bridge Sub-structure
8	CE709	Soil Structure Interaction
9	CE710	Design of Industrial Structures
10	CE711	Recent Advances In Construction Materials
11	CE712	Pre-Stressed Concrete Design
12	CE713	Composite Materials and Structures
13	CE714	Analysis and Design of Tall Buildings
14	CE715	Structural Health Monitoring
15	CE716	Repair And Retrofitting of Structures
16	CE717	Construction Methods And Equipment
17	CE718	Structural Vibration Control
18	CE719	Formwork for Concrete Structures
19	CE720	Advanced Steel Design
20	CE721	Wind Engineering
21	CE722	Blast Resistant Design of Structures
22	CE723	Computer Application in Structural Analysis & Design
23	CE724	Masonry Structures
24	CE725	Design of Substructures
25	CE726	Bridge Engineering
26	CE727	Theory of Plates and Shells
27	CE728	Design of Fiber Reinforced Composite Structures
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