

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	Structural Dynamics	Core	3	0	0	3
3	CE503	Design of Reinforced Concrete Structures	Core	3	0	0	3
4	CE504	Finite Element Methods	Core	3	0	0	3
5	CE7XX	Elective-I	Elective	3	0	0	3
6	CE601	Concrete Structures Laboratory	Core	0	0	4	2
		Total		15	0	4	17

List of Electives-I			Core/Elective	L	T	P	Credits
1	14M14MA213	Advanced Numerical Techniques	Elective	3	0	0	3
2	CE701	Stability of Structures	Elective	3	0	0	3
3	CE702	Plastic Analysis of Structures	Elective	3	0	0	3
4	CE703	Hydraulic Structures	Elective	3	0	0	3
5	CE704	Geo-Environmental Engineering	Elective	3	0	0	3

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M.Tech. II semester-(M2)							
S.No.	Subject Code	Subject	Core/Elective	L	T	P	Credits
1	CE505	Solid Mechanics in Structural Engineering	Core	3	0	0	3
2	CE506	Design of Steel Structures	Core	3	0	0	3
3	CE507	Earthquake Resistant Design of Structures	Core	3	0	0	3
4	CE508	Theory of Plates and Shells	Core	3	0	0	3
5	CE7XX	Elective-2	Elective	3	0	0	3
6	CE602	CAD Laboratory	Core	0	0	4	2
		Total		15	0	4	17

List of Electives-II			Core/Elective	L	T	P	Credits
1	CE705	Modelling, Simulation and Computer Applications	Elective	3	0	0	3
2	CE706	Engineering Design Optimization and Reliability	Elective	3	0	0	3
3	CE707	Fracture Mechanics in Quasi-Brittle Materials	Elective	3	0	0	3
4	CE708	Design of Bridge Sub-structure	Elective	3	0	0	3
5	CE709	Soil Structure Interaction	Elective	3	0	0	3

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M.Tech. III semester-(M3)

S.No.	Subject Code	Subject	Core/Elective	L	T	P	Credits
1	CE7XX	Elective-3	Elective	3	0	0	3
2	CE7XX	Elective-4	Elective	3	0	0	3
3	CE603	Seminar	Core	0	0	0	2
4	CE604	Dissertation Part-I	Core	-	-	24	12
		Total		6	0	24	20

List of Electives-III			Core/Elective	L	T	P	Credits
1	CE710	Design of Industrial Structures	Elective	3	0	0	3
2	CE711	Recent Advances In Construction Materials	Elective	3	0	0	3
3	CE712	Pre-Stressed Concrete Design	Elective	3	0	0	3
4	CE713	Composite Materials and Structures	Elective	3	0	0	3
5	CE714	Analysis and Design of Tall Buildings	Elective	3	0	0	3
6	CE715	Structural Health Monitoring	Elective	3	0	0	3
List of Electives-IV			Core/Elective	L	T	P	Credits
1	CE716	Repair And Retrofitting of Structures	Elective	3	0	0	3
2	CE717	Construction Methods And Equipments	Elective	3	0	0	3
3	CE718	Structural Vibration Control	Elective	3	0	0	3
4	CE719	Formwork for Concrete Structures	Elective	3	0	0	3

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M. Tech. IV semester-(M4)							
S.No.	Subject Code	Subject	Core/Elective	L	T	P	Credits
1	CE7XX	Elective-5	Elective	3	0	0	3
2	CE7XX	Elective-6	Elective	3	0	0	3
3	CE605	Project Seminar	Core	0	0	0	2
4	CE606	Dissertation Part-II	Core	-	-	-	14
		Total					22

List of Electives-V			Core/Elective	L	T	P	Credits
1	CE720	Advanced Steel Design	Elective	3	0	0	3
2	CE721	Wind Engineering	Elective	3	0	0	3
3	CE722	Blast Resistant Design of Structures	Elective	3	0	0	3
4	CE723	Computer Application in Structural Analysis & Design	Elective	3	0	0	3
5	CE724	Masonry Structures	Elective	3	0	0	3
List of Electives-VI			Core/Elective	L	T	P	Credits
1	CE725	Design of Substructures	Elective	3	0	0	3
2	CE726	Bridge Engineering	Elective	3	0	0	3
3	CE727	Nanotechnology and Concrete	Elective	3	0	0	3
4	CE728	Design of Fiber Reinforced Composite Structures	Elective	3	0	0	3