Course Structure: M. Tech. 2022-24

Semester - I

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	CEE4104	Advanced Structural Analysis	3	0	1	4
2	CEE4105	Theory of Elasticity & Plasticity	3	0	0	3
3	CEE4106	Advanced Concrete Science & Technology	3	0	0	3
4	CEE4107	Earthquake Resistant Design	3	1	0	4
5	CEE4108	Finite Element Method in Structural Engineering	3	0	0	3
6	PE-I	Professional Elective - I	3	0	0	3
		Total Credits				20
		Total Contact hours/week				21

Semester - II

S. No.	Course Code	Course Title	L	T	P	Credit(s)
1	CEE4204	Dynamics of Structures	3	1	0	4
2	CEE4202	Research Methodology and IPR	3	0	0	3
3	CEE4205	Advanced Construction Techniques & Management	3	0	0	3
4	PE-II	Professional Elective – II	3	0	0	3
5	PE-III	Professional Elective - III	3	0	0	3
6	PE-IV	Professional Elective - IV	3	0	0	3
					Total Credits	19
					Total Contact hours/week	19

List of Professional Elective(s) - I

S. No.	Course Code	Course Title	L	T	P	Credit
1	CEE4151	Theory of Thin Plates and Shell	3	0	0	3
2	CEE4152	Theory And Applications of Cement Composites	3	0	0	3
3	CEE4103	Environmental Impact Assessment	3	0	0	3
4	CEE4153	Advanced Foundation Design	3	0	0	3
5	CEE4141	Global Climate Change Adaptation & Mitigation	3	0	0	3

List of Professional Elective(s) - II

S. No.	Course Code	Course Title	L	T	P	Credit
1	CEE4251	Theory of Elastic Stability	3	0	0	3
2	CEE4252	Ground Improvement Techniques	3	0	0	3
3	CEE4253	Advanced Steel Design	3	0	0	3

List of Professional Elective(s) - III

S. No.	Course Code	Course Title	L	T	P	Credit
1	CEE4254	Advanced Bridge Engineering	3	0	0	3
2	CEE4255	Design of Advanced Concrete Structures	3	0	0	3
3	CEE4256	Fracture Analysis & Non-Destructive Testing	3	0	0	3
4	CEE4257	Seismic Design of Foundation	3	0	0	3

List of Professional Elective(s) - IV

S. No.	Course Code	Course Title	L	T	P	Credit
1	CEE4258	Advanced Pre-stressed Concrete Design	3	0	0	3
2	CEE4259	Repair and Rehabilitation of Structures	3	0	0	3
3	CEE4260	Cost Management of Engineering Projects	3	0	0	3