M.Tech Curriculum
Structural Engineering

From Academic Year 2019-20

Semester I

S. No.	Course No.	Course Name	L-T-P-C
1.	CE5102	Structural Dynamics	3-0-0-3
2.	CE5103	Advanced Mechanics of Solids	3-0-0-3
3.	CE5108	Advanced Design of Concrete Structures	3-0-0-3
4.	CE5115	Structural Stability and Design	3-0-0-3
5.	CE5193	Structural Engineering Laboratory	0-0-3-2
6.	MAE	Mathematics Elective	3-0-0-3
		Total	**17**

Semester II

S. No.	Course No.	Course Name	L-T-P-C
1.	CE5204	Advanced Design of Metal Structures	3-0-0-3
2.	ME5102	Finite Element Method in Engineering Mechanics	3-0-0-3
3.	DPE1	Departmental Elective-1	3-0-0-3
4.	DPE2	Departmental Elective-2	3-0-0-3
5.	FRE1	Free Elective-1	3-0-0-3
		Total	**15**

Semester III

S. No.	Course No.	Course Name	L-T-P-C
1.	CE6111	Seminar	- - - 1
2.	CE6151	Project Phase-I	- - -10
		Total	**11**

Semester IV

S. No.	Course No.	Course Name	L-T-P-C
1.	CE6251	Project Phase-II	- - -15
2.	FRE2	Free Elective-2	3-0-0-3
		Total	**18**

Total Credits - 61

Department Electives

1) CE5027 Geotechnical Investigations and Foundation Design
2) CE5028 Wind and Earthquake Engineering
3) CE5029 Nondestructive Testing and Health Monitoring of Civil Structures
4) CE5030 Random Vibration and Structural Reliability
5) CE5206 Ground Improvement and Geosynthetics
6) CE5211 Soil Dynamics and Geotechnical Earthquake Engineering

Mathematics Electives

1) MA5101 Mathematics for Engineers
2) MA5105 Linear Algebra and Probability Theory