

M.Tech Curriculum
Structural Engineering
 From Academic Year 2020-21

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.	MAE1	Mathematics Elective -1	2-0-0-2
6.	MAE2	Mathematics Elective -2	2-0-0-2
Total			16

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.	CE5193	Advanced Structural Engineering Laboratory	0-0-3-2
4.	DPE1	Department Elective -1	3-0-0-3
5.	DPE2	Department Elective -2	3-0-0-3
6.	FRE1	Free Elective -1	3-0-0-3
Total			17

Semester - III

S. No.	Course No.	Course Name	L-T-P-C
1.	CE6110	Seminar	- - -1
2.	CE6150	Project Phase -I	- - -10
Total			11

Semester - IV

S. No.	Course No.	Course Name	L-T-P-C
1.	CE6250	Project Phase -II	- - -15
2.	FRE2	Free Elective -2	3-0-0-3
Total			18

Total Credits - 62

Department Electives

- 1) CE5027 Geotechnical Investigations and Foundation Design
- 2) CE5028 Earthquake and Wind 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
- 7) CE5034 Advanced Concrete Technology

Mathematics Electives

- 1) MA5021 Linear Algebra for Engineers
- 2) MA5023 Differential Equations for Engineers
- 3) MA5022 Probability theory for Engineers