

M. Tech. (STRUCTURAL ENGINEERING)

The total minimum credits required for completing the M. Tech. Programming in Structural Engineering is 63.

SEMESTER I

Code	Course of Study	L	T	P	C
MA751	Applied Mathematics	3	0	0	3
CE651	Theory of Elasticity and Plasticity	3	0	0	3
CE652	Matrix Methods of Structural Analysis	3	0	0	3
CE653	Structural Dynamics	3	0	0	3
	Elective – I	3	0	0	3
	Elective – II	3	0	0	3
CE654	Structural Engineering Laboratory	0	0	3	1
		18	0	3	19

SEMESTER II

Code	Course of Study	L	T	P	C
CE655	Stability of Structures	3	0	0	3
CE656	Finite Element Methods	3	0	0	3
CE657	Theory of Plates and Shells	3	0	0	3
	Elective – III		0	0	3
	Elective – IV	3	0	0	3
	Elective – V	3	0	0	3
CE658	CAD in Structural Engineering	1	0	3	2
		19	0	3	20

SEMESTER III

Code	Course of Study	L	T	P	C
CE697	Project	0	0	24	12

SEMESTER IV

Code	Course of Study	L	T	P	C
CE698	Project	0	0	24	12

ELECTIVES (I Semester)

Sl. No	Course of Study	L	T	P	C
CE661	Advanced Concrete Technology	3	0	0	3
CE662	Analysis of deep foundation	3	0	0	3
ME774	Safety in Construction	3	0	0	3
	Any one elective from other department				

ELECTIVES (II Semester)

Code	Course of Study	L	T	P	C
CE663	Maintenance and Rehabilitation of Structures	3	0	0	3
CE664	Design of steel and composite structures	3	0	0	3
CE665	Failure Analysis of Structures	3	0	0	3
CE666	Seismic design of structures	3	0	0	3
MT614	Corrosion Engineering	3	0	0	3
	Any one elective from other department				

ELECTIVES (To be offered whenever needed)

Code	Course of Study	L	T	P	C
1.	Prefabricated Structures	3	0	0	3
2.	Smart Structures and Applications	3	0	0	3
3.	Prestressed concrete	3	0	0	3
4.	Design of Tall Buildings	3	0	0	3
5.	Fracture Mechanics	3	0	0	3
6.	Structures in Disaster Prone areas	3	0	0	3
7.	Advanced concrete structures	3	0	0	3
8.	Soil structure interaction	3	0	0	3
9.	Random vibrations and structural reliability	3	0	0	3
10.	Design of boiler structures	3	0	0	3
11.	Bridge Engineering	3	0	0	3

Note: Student may also choose any other elective courses relevant to their degree with the consent of the course coordinator.