

**Nirma University  
Institute of Technology  
Department of Civil Engineering**

**M Tech Programme in Civil Engineering (Computer Aided Structural Analysis and Design)  
Teaching & Examination Scheme**

**M. TECH. SEMESTER-II**

w.e.f.: Academic Year 2025-26

Course Code	Course Title	Teaching Scheme(hours/week)				Examination Scheme			
		L	T	P	C	Duratio n, hrs	Component Weightage		
						SEE	CE	LPW	SEE
6CL151CC22	Finite Element Method for Structural Engineering	3	-	2	4	3	0.25	0.25	0.5
6CL1XXME22	Department Elective-I	2	-	2	3	3	0.25	0.25	0.5
6CL1XXME22	Department Elective-II	3	-	-	3	3	0.5	-	0.5
6CL1XXME22	Department Elective-III	3	-	-	3	3	0.5	-	0.5
6CL152CC22	Research Methodology and IPR	2	-	-	2	-	1.0	-	-
6CL153CC22	Experimental Techniques in Structural Engineering	-	-	2	1	-	-	1.0	-
6CL191CC22	Minor Project	-	-	10	5	-	-	1.0	-
	<b>Total</b>	<b>13</b>	<b>-</b>	<b>16</b>	<b>21</b>				
Supplementary Course*									
7CL181VA22	Summer Internship/Value Added Course*		-		-	-	-	1.0	-

\*To be completed during summer break between PG Semester II and III

L=Lecture, T=Tutorial, P=LPW/PW, C=Credit, SEE=Semester-End Exam, LPW/PW = Lab/Project Work, CE=Continuous Evaluation



### List of Department Elective Courses

Elective-I		Elective-II and Elective-III			
Course Code	Course Title	Course Code	Course Title	Course Code	Course Title
6CL161ME22	Advanced Foundation Engineering	5CL166ME22	Design of Plates and Shells	5CL171ME22	Industrial Structures
6CL162ME22	Structural Health Monitoring	5CL167ME22	Prestressed Concrete Structures	5CL172ME22	Bridge Structures
6CL163ME22	Structural Evaluation and Strengthening	5CL168ME22	Marine Structures	5CL173ME22	Nonlinear Analysis of Structures
6CL164ME22	Hydraulic Structures	5CL169ME22	Earthquake Engineering	5CL174ME22	Tall Buildings
6CL165ME22	Design of Masonry Structures	5CL170ME22	Chimney, Silo and Transmission Line Tower	5CL175ME22	Blast Resistant Structures

