

Nirma University
School of Engineering, Institute of Technology
Teaching & Examination Scheme of Master of Technology in Civil Engineering
(Computer Aided Structural Analysis and Design)

M. TECH. SEMESTER-II

w. e. f.: 2023-2024

Course Code	Course Title	Teaching Scheme(hours/week)				Examination Scheme			
		L	T	P	C	Duration, hrs	Component Weightage		
						SEE	CE	LPW	SEE
6CL151	Finite Element Method for Structural Engineering	3	-	2	4	3	0.4	0.2	0.4
6CL1XX	Department Elective-I	2	-	2	3	3	0.4	0.2	0.4
6CL1XX	Department Elective-II	3	-	-	3	3	0.6	-	0.4
6CL1XX	Department Elective-III	3	-	-	3	3	0.6	-	0.4
6CL152	Research Methodology and IPR	2	-	-	2	-	1.0	-	-
6CL153	Experimental Techniques in Structural Engineering	-	-	2	1	-	-	1.0	-
6CL191	Minor Project	-	-	10	5	-	-	1.0	-
	Total	13	-	16	21				
Supplementary Course*									
7CL181	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
6CL161	Advanced Foundation Engineering	6CL166	Design of Plates and Shells	6CL171	Industrial Structures
6CL162	Structural Health Monitoring	6CL167	Prestressed Concrete Structures	6CL172	Bridge Structures
6CL163	Structural Evaluation and Strengthening	6CL168	Marine Structures	6CL173	Nonlinear Analysis of Structures
6CL164	Hydraulic Structures	6CL169	Earthquake Engineering	6CL174	Tall Buildings
6CL165	Design of Masonry Structures	6CL170	Chimney, Silo and Transmission Line Tower	6CL175	Blast Resistant Structures