GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. CIVIL (CASAD)

PROPOSED TEACHING SCHEME

Semester I

SR. NO.	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Matrix Analysis of Framed Structures	4	0	0	4
2	Structural Dynamics and Earthquake Engineering	4	0	0	4
3	Advanced Solid Mechanics	4	0	0	4
4	Inter-Disciplinary Elective-1	3	0	2	4
5	Major Elective-I	3	2	0	4
6	Communication and Research Skills	2	2	0	3
7	CASAD LAB-I	0	0	2	1
8	Cement & Concrete Lab	0	0	2	1
	TOTAL	20	4	6	25

Semester II

SR NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Finite Element Method	4	0	0	4
2	Behaviour of Reinforced Concrete	4	0	0	4
3	Major Elective-II	3	2	0	4
4	Major Elective-III	3	0	0	3
5	Inter-Disciplinary Elective-2	3	2	0	4
6	Principles of Management	3	0	0	3
7	CASAD LAB-II	0	0	3	1.5
8	Structural Design Project	0	3	0	1.5
	TOTAL	20	7	3	25

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Interdisciplinary Elective - 1	Interdisciplinary Elective - 2
Basics of Reinforced Concrete and Masonry Construction	Advanved Computing in Engineering

Sr. No.	Major Elective - 1	Major Elective - 2	Major Elective - 3
1	Numerical Methods	Advanced Foundation Engineering	Rehabilitation and Retrofitting of Buildings
2	Prestresssed Concrete	Analysis and Design of Bridges	Advanced Steel Structural Design
3	Fracture Mechanics	Disaster Resistant Structures	Marine Structures