

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Civil Engineering (Transportation Engineering)

PROPOSED TEACHING SCHEME

Semester I

SR. NO.	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Urban Transportation Systems Planning	4	2	0	5
2	Traffic Engineering -1	4	0	2	5
3	Highway Materials and Construction	4	0	2	5
4	Inter Disciplinary Elective - 1	3	2	0	4
5	Major Elective - 1	3	0	0	3
6	Communication and Research Skills	2	2	0	3
	TOTAL	20	6	4	25

Semester II

SR NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Traffic Engineering - 2	4	0	2	5
2	Pavement Design and Evaluation	4	0	2	5
3	Major Elective - 2	3	2	0	4
4	Major Elective - 3	3	2	0	4
5	Inter Disciplinary Elective - 2	3	0	2	4
6	Principles of Management	3	0	0	3
	TOTAL	20	4	6	25

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Interdisciplinary Elective - 1	Interdisciplinary Elective - 2
Basics of Transportation Engineering	Geo - Spatial Techniques

Sr. No.	Major Elective - 1	Major Elective - 2	Major Elective - 3
1	Statistics and Optimization Techniques	Regional and Mass Transportation Systems Planning	Economics and Evaluation of Transportation Projects
2	Decision Models in Management	Railway and Airport Engineering	Environmental Impact Assessment of Transportation Project
3	Public Transportation Planning	Docks and Harbour Engineering	Transportation System Management
4	Highway Geometric Design	Transportation Facility Design	Road Safety and Environment