

# 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
	<b>TOTAL</b>	<b>20</b>	<b>6</b>	<b>4</b>	<b>25</b>

#### 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
	<b>TOTAL</b>	<b>20</b>	<b>4</b>	<b>6</b>	<b>25</b>

## M.E. Civil Engineering (Transportation Engineering)

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