GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Mechanical (Machine Design)

PROPOSED TEACHING SCHEME

Semester I

SR. NO.	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Theory of Elasticity	4	0	0	4
2	Dynamics of Machinery	4	0	2	5
3	Engineering Optimization	3	2	0	4
4	Major Elective I	4	0	2	5
5	Interdisciplinary Elective I	3	2	0	4
6	Communication & Research Skills	2	2	0	3
	TOTAL	20	6	4	25

Semester II

SR NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Finite Element Methods	4	0	2	5
2	Geometrical Dimensioning and Tolerancing	4	2	0	5
3	Major Elective II	3	0	2	4
4	Major Elective III	3	2	0	4
5	Interdisciplinary Elective II	3	2	0	4
6	Principles of Management	3	0	0	3
	TOTAL	20	6	4	25

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Interdisciplinary Elective - 1	Interdisciplinary Elective - 2
Optimization Techniques	Quality Control and Reliablity

Sr. No.	Major Elective - 1	Major Elective - 2 & 3
1	Tribology	Machine Tool Design
2	Robust Design	Mechanical Vibration and Diagnostics
3		Computer Aided Design
4		Robotics
5		Design for Manufacturing
6		Reliability Engineering