

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Electrical Engineering

PROPOSED TEACHING SCHEME

Semester I

SR. NO.	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Power System Modelling & Simulation	3	0	0	3
2	Advanced Power Electronics	3	0	0	3
3	Modern Control System	3	0	0	3
4	Major Elective 1	4	0	2	5
5	Inter Disciplinary Elective 1	3	0	2	4
6	Communication & Research Skills	2	2	0	3
7	Simulation Laboratory	0	0	4	2
8	Core Laboratory I	0	0	4	2
	TOTAL	18	2	12	25

Semester II

SR NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Advanced Electrical Machines	3	0	0	3
2	Digital Signal Processing	3	0	0	3
3	Major Elective 2	4	0	0	4
4	Major Elective 3	4	0	0	4
5	Inter Disciplinary Elective 2	3	0	2	4
6	Principles of Management	3	0	0	3
7	Core Laboratory II	0	0	4	2
8	Elective Laboratory	0	0	4	2
	TOTAL	20	0	10	25

M.E. Electrical Engineering

Interdisciplinary Elective - 1	Interdisciplinary Elective - 2
Energy Management	Electrical Power Utilization

Sr. No.	Major Elective - 1	Major Elective - 2	Major Elective - 3
1	Modern Power System Protection (Power Group)	Power System Dynamics & Control (Power Group)	Flexible AC Transmission System (Power Group)
2	Nonlinear control systems (Control Group)	Digital control systems (Control Group)	Modeling and simulation of dynamic systems. (Control Group)
3	Electrical Drives (Power Electronics Group)	Power Quality (Power Electronics Group)	Advanced Power Converters (Power Electronics Group)
4	Advanced Micro. Architecture (Micro Group)	Digital Image Processing (Micro Group)	Embedded System Design (Micro Group)