

GUJARAT TECHNOLOGY UNIVERSITY
M.E Digital Communication
PROPOSED TEACHING SCHEME

Semester-I

SR. NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1.	Statistical Signal Analysis	3	2	0	4
2.	Information Theory and Coding	4	0	2	5
3.	Asic Design	4	0	2	5
4.	Major Elective 1	3	0	2	4
5.	Interdisciplinary/Minor Elective 1	3	0	2	4
6.	Communication & Research Skill	2	2	0	3
	Total	19	04	08	25

Semester-II

SR. NO	SUBJECT	TEACHING SCHEME(HOURS)			CREDIT S
		THEORY	TUTORIAL	PRACTICAL	
1.	Telecom Switching System, Networks and Network Management	3	0	2	4
2.	Advanced Digital Communication	4	0	2	5
3.	Major Elective 2	4	0	2	5
4.	Major Elective 3	3	0	2	4
5.	Interdisciplinary Elective 2	3	0	2	4
6.	Principles of Management	3	0	0	3
	Total	20	0	10	25

M.E. Digital Communication

Interdisciplinary Elective-I
Image Processing
Interdisciplinary Elective-II
Introduction to Artificial Intelligence

SR. No.	List of Major Elective Subjects	TEACHING SCHEME(HOURS)			CREDITS
		THEORY	TUTORIAL	PRACTICAL	
1	Fiber Optic Communication	3	0	2	4
2	Image Processing	3	0	2	4
3	Speech Processing	3	0	2	4
4	Biomedical Signal Processing	3	0	2	4
5	Computer Vision	3	0	2	4
6	Embedded System Design	3	0	2	4
7	Introduction to Artificial Intelligence	3	0	2	4
8	RF & Microwave Engineering	3	0	2	4
9	Digital VLSI Design	3	0	2	4
10	RF Microelectronics	3	0	2	4
11	Optimization Techniques	3	2	0	4
12	Applied Linear Algebra in Engineering	3	2	0	4
13	Adaptive signal Processing	3	2	0	4
14	Microelectronics chip fabrication	3	2	0	4
15	Satellite communication	3	2	0	4
16	Antenna Engineering and Design	3	0	2	4
17	Peripheral System Design & Interfacing	3	0	2	4
18	Computer Aided Design for VLSI	3	0	2	4
19	Digital Signal Processing & Applications	3	0	2	4
20	Neuro Computing and Applications	3	2	0	4
21	Machine Learning	3	2	0	4
22	Robotics and Intelligent Systems	3	2	0	4
23	Linear System Theory	3	2	0	4
24	Soft Computing Technique and its Application in Engineering	3	0	2	4
25	Recent topics in Modern Communication Engineering	3	2	0	4
26	Wireless and Mobile Communication	3	2	0	4
27	Detection And Estimation Theory	3	2	0	4
28	Digital Telephony & Switching Networks	3	2	0	4