

Department of Electronics and Communication Engineering
Scheme for M. Tech. in Electronic System Design

I-Year I-Semester

Sl. No.	Course Code	Course Name	Category Code	I	P	No. of Credits
1	EC501T	Mathematical Foundations for ESD	PEC	3	0	3
2	EC502T	Product Design and Development	DES	3	0	3
3	EC503T	Digital VLSI System Design	PEC	3	0	3
4	EC503I	Embedded System Design Practice	PEC	1	3	3
5	EC502P	Product Design and Development Practice	DES	0	3	2
6	EC503P	Digital VLSI System Design Practice	PEC	0	3	2
7	EC51XT	Elective-I	PEC	3	0	3
8	EC51XT	Elective-II	PEC	3	0	3
9	EC601	Seminar	PCD	--	--	2
Total				16	9	24

I-Year II-Semester

Sl. No.	Course Code	Course Name	Category Code	I	P	No. of Credits
1	EC504T	Circuits for Electronic System Design	PEC	3	0	3
2	EC505T	Electronic Systems Packaging	PEC	3	0	3
3	EC506T	Digital Signal Processing and Architectures	PEC	3	0	3
4	EC504P	Circuits for Electronic System Design Practice	PEC	0	3	2
5	EC505P	Electronic Systems Packaging Practice	PEC	0	3	2
6	EC506P	Digital Signal Processing and Architectures Practice	PEC	0	3	2
7	EC52XT	Elective-III	PEC	3	0	3
8	EC52XT	Elective-IV	PEC	3	0	3
9	EC602	Comprehensive Viva-Voce	PCD	--	--	2
Total				15	9	23

II-Year I-Semester

Sl. No.	Course Code	Course Name	Category Code	I	P	No. of Credits
1	EC604P	Dissertation Work-I	PCD	0	25	10
Total				0	25	10

II-Year II-Semester

Sl. No.	Course Code	Course Name	Category Code	I	P	No. of Credits
1	EC605P	Dissertation Work-II	PCD	0	25	20
Total				0	25	20

LIST OF ELECTIVES

Sl. No.	Course Code	Course Name	Category Code	I	P	No. of Credits
1	EC511	Antenna Design	PEC	3	0	3
2	EC512	Analog and Mixed Signal Circuit Design	PEC	3	0	3
3	EC513	Testing and Testability	PEC	3	0	3
4	EC514	Reliable Digital Communication System Design	PEC	3	0	3
5	EC515	Satellite Communication	PEC	3	0	3
6	EC516	Design of IoT System	PEC	3	0	3
7	EC517	Data Communication and Networking	PEC	3	0	3
8	EC521	Numerical Techniques in Electromagnetics	PEC	3	0	3
9	EC522	RF and Microwave Integrated Circuits	PEC	3	0	3
10	EC523	Electromagnetic Interference and Compatibility	PEC	3	0	3
11	EC524	Software Defined Radio	PEC	3	0	3
12	EC525	Cognitive Communication Networks	PEC	3	0	3
13	EC526	MIMO Communication Systems	PEC	3	0	3
14	EC527	Detection and Estimation Theory	PEC	3	0	3
15	EC528	Electric Vehicle Technology	PEC	3	0	3
16	EC529	Navigation System	PEC	3	0	3