

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

Semester I					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	EC501T	Mathematical Foundations for ESD	ELE	3-0	3
2	DES501T	Product Design and Development	DES	3-0	3
3	DES501P	Product Design and Development Practice	DES	0-3	2
4	EC502T	Digital VLSI System Design	PEC	3-0	3
5	EC502P	Digital VLSI System Design Practice	PEC	0-3	2
6	-	Departmental Elective-I	PEC	3-0	3
7	-	Departmental Elective-II	ELE	3-0	3
8	EC503I	Embedded System Practice	PEC	1-3	3
9	EC601	Seminar	PCD	---	2
Total					24
Semester II					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	EC504T	Circuits for Electronic System Design	PEC	3-0	3
2	EC504P	Circuits for Electronic System Design Practice	PEC	0-3	2
3	EC505T	Electronic Systems Packaging	PEC	3-0	3
4	EC505P	Electronic Systems Packaging Practice	PEC	0-3	2
5	EC506T	Digital Signal Processing and Architectures	PEC	3-0	3
6	EC506P	Digital Signal Processing and Architectures Practice	PEC	0-3	2
7	-	Departmental Elective-III	ELE	3-0	3
8	-	Free Elective-I	ELE	3-0	3
9	EC602	Comprehensive Viva-Voice	PCD	---	2
Total					23
Semester III					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	EC604P	Dissertation Work-I	PCD	0-25	10
Total					10
Semester IV					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	EC605P	Dissertation Work-II	PCD	0-25	20
Total (Dissertation Work)					20
Total Credits					77

Free Electives offered by ECE department					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	FE501T	Applied Game Theory	PEC	3-0	3
2	FE502T	Neural Networks and Learning Systems	PEC	3-0	3
3	FE503T	Blockchain Design and Use Cases	PEC	3-0	3
Departmental Electives					
Sl. No.	Code	Course Name	Category	I-P	Credit
1	EC507T	Design of IoT based System	PEC	3-0	3
2	EC508T	Semiconductor Devices and Technology	PEC	3-0	3
3	EC509T	Quality and Reliability of Electronic Systems	PEC	3-0	3
4	EC510T	Advanced Sensor Systems/ Sensor System Design	PEC	3-0	3
5	EC511T	Testing and Testability	PEC	3-0	3
6	EC512T	Electromagnetic Interference and Compatibility	PEC	3-0	3
7	EC513T	Communication Protocols for Electronic System Design	PEC	3-0	3