DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

M.Tech. (Communication Systems)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	**Subject Code**	**Course Title**	**Subject Area**	**Credits**	**L**	**T**	**P**	**Theory**	**Practical**	**CWS**	**PRS**	**MTE**	**ETE**	**PRE**
1st YEAR				**Semester- I (Autumn)**										
1.	ECN-510	Digital Communication Laboratory	PCC	2	0	0	3	0	3	-	50	-	-	50
2.	ECN-511	Linear Algebra and Random Processes	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	ECN-512	Advanced Digital Communication	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	ECN-513	Multirate Digital Signal Processing	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	ECN-515	Information and Coding Theory	PCC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
		Total		18	12	4	3							
				Semester-II (Spring)										
1.	ECN-600	Project	PCC	2	0	0	3	0	0	-	100	-	-	-
2.	ECN-700	Seminar	SEM	2	-	-	-	-	-	-	-	-	100	-
3.		ELECTIVE - I	PEC	3 / 4	3									
4.		ELECTIVE - II	PEC	3 / 4	3									
5.		ELECTIVE - III	PEC	4	3									
6.		ELECTIVE - IV	PEC	4	3									
		Total		18- 20	12									

2nd YEAR			**Semester- I (Autumn)**											
1.	ECN-701A	Dissertation Stage–I (to be continued next semester)	DIS	12	-	-	-	-	-	-	-	-	100	-
		Total		12										
Note: Students can take 1 or 2 audit courses as advised by the supervisor, if required.														
				Semester-II (Spring)										
1.	ECN-701B	Dissertation Stage–II (contd. from III semester)	DIS	18	-	-	-	-	-	-	-	-	100	-
		Total		18										
		Total Credits		**66 - 68**										

Program Elective Courses (Communication Systems)

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight (%)				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
1.	ECN-514	Detection and Estimation Theory	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
2.	ECN-611	Wireless Communication Systems	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
3.	ECN-612	Wireless Networks	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
4.	ECN-613	Telecommunication Networks	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
5.	ECN-614	Adaptive Signal Processing Techniques	PEC	4	3	0	2	3	0	10-15	10-20	20-30	40-50	-
6.	ECN-615	Advanced Coding Theory	PEC	4	3	0	2	3	0	10-15	10-20	20-30	40-50	-
7.	ECN-616	Speech and Audio Processing	PEC	4	3	0	2	3	0	10-15	10-20	20-30	40-50	-
8.	ECN-617	Image Processing and Computer Vision	PEC	4	3	0	2	3	0	10-15	10-20	20-30	40-50	-
9.	ECN-531	Microwave Engineering*	PEC	4	3	0	0	3	0	20-35	-	20-30	40-50	-
10.	ECN-539	Fiber Optic Systems*	PEC	4	3	0	0	3	0	20-35	-	20-30	40-50	-
11.	ECN-550	Radar Signal Processing*	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
12.	ECN-555	Microwave Imaging*	PEC	4	3	0	0	3	0	20-35	-	20-30	40-50	-
13.	ECN-573	Digital VLSI Circuit Design*	PEC	4	3	0	0	3	0	20-35	-	20-30	40-50	-
14.	ECN-594	VLSI Digital Signal Processing*	PEC	4	3	1	0	3	0	20-35	-	20-30	40-50	-
15.	ECN-631	RF Receiver Design*	PEC	4	3	0	0	3	0	20-35	-	20-30	40-50	-

* Courses offered from other specialization groups of the ECE Department.