

Department of Electronics Engineering

1st year 2nd year

Curriculum of M.Tech. in Communication System 1st Year

M.TECH. I(EC), SEMESTER I(Specialization:Communication System)

Sr. No.	Name of Subjects			Course Code	Credits	Teaching Scheme			Examination			
	L	T	P			Theory	Tut.	Prac.	TOTAL	Scheme(Marks)		
1.				RF Circuits & Systems	EC601 03	3	0	0	100	-	-	100
2.				Advance Optical Communication Systems	EC603 03	3	0	0	100	-	-	100
3.				Advance Digital Signal Processing	EC605 03	3	0	0	100	-	-	100
4.				Communication Laboratory-I	EC607 04	0	0	8	-	-	-	100
5.				Elective - I	EC6XX 03	3	0	0	100	-	-	100
6.				Elective - II	EC6XX 03	3	0	0	100	-	-	100
TOTAL												
19	15	00	08	500	-	100	600					

Total Credits:19, Contact Hours Per Week: 23

M.TECH. I(EC), SEMESTER II (Specialization:Communication System)

Sr. No.	Name of Subjects			Course Code	Credits	Teaching Scheme			Examination			
	L	T	P			Theory	Tut.	Prac.	TOTAL	Scheme(Marks)		
1.				Image Processing	EC602 03	3	0	0	100	-	-	100
2.				Wireless Communication	EC604 03	3	0	0	100	-	-	100
3.				Communication Laboratory-II	EC606 04	0	0	8	-	-	-	100
4.				Elective - III	EC6XX 03	3	0	0	100	-	-	100
5.				Elective - IV	EC6XX 03	3	0	0	100	-	-	100

6.	Elective - V	EC6XX	03	3	0	0	100	-	-	100
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TOTAL

19	15	00	08	500	-	100	600
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Total Credits:19, Contact Hours Per Week: 23

LIST OF SUBJECTS FOR ELECTIVE I & II:

- (01) Digital VLSI Design EC609
- (02) Embedded Systems EC613
- (03) VLSI Technology EC617
- (04) Information Theory & Coding EC619
- (05) Digital Satellite Communication EC621
- (06) Cellular Networks EC627
- (07) Probability and Random Processes EC629

LIST OF SUBJECTS FOR ELECTIVE III , IV & V

- (01) Optical Networks EC608
- (02) Analog VLSI Design  
[Pre-requisite:EC609] EC612
- (03) Real Time Systems EC614
- (04) Reconfigurable Computing EC618
- (05) Low Power VLSI Design EC622
- (06) Nanoelectronics EC624
- (07) DSP Structures for VLSI EC626
- (08) Estimation & Detection Theory EC628
- (09) Microwave Integrated Circuits EC632
- (10) Optical Signal Processing EC634
- (11) Ad-Hoc Networks EC636
- (12) MIMO Technology EC638

2<sup>ND</sup> YEAR

Curriculum of M.Tech. in Communication System 2nd Year

M.TECH. II(EC), SEMESTER III (Specialization:Communication System)

Sr. No.	Name of Subjects			Course Code	Credits	Teaching Scheme			Examination			
	L	T	P			Theory	Tut.	Prac.	TOTAL			
1.				Dissertation Preliminaries	EC801	08	0	0	16	0	0	400
2.				Seminar	EC803	02	0	0	04	0	0	100
TOTAL												
10	0	0		20	0	0			500	500		

Total Credits:10, Contact Hours Per Week: 20

M.TECH. II(EC), SEMESTER IV (Specialization:Communication System)

Sr. No.	Name of Subjects			Course Code	Credits	Teaching Scheme			Examination			
	L	T	P			Theory	Tut.	Prac.	TOTAL			
1.				Dissertation	EC802	12	0	0	24	0	0	400
TOTAL												
12	0	0		24	0	0			400	400		

Total Credits:12, Contact Hours Per Week: 24

(\* ) TOTAL CREDITS = 19(SEM1) + 19(SEM2) + 10(SEM3) + 12(SEM4) = 60

(\* ) TOTAL MARKS = 600(SEM1) + 600(SEM2) + 500(SEM3) + 400(SEM4) = 2100