

**SCHEME OF TEACHING & EXAMINATION
ELECTRONICS & COMMUNICATION ENGINEERING
III SEMESTER (COMMON TO EC/TC/ML)**

Subject Code	Title	Teaching Dept.	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/ Practical	Total Marks
10MAT - 31	Engg. Mathematics - III	Mat	04		03	25	100	125
10ES – 32	Analog Electronic Ckts	@	04		03	25	100	125
10ES – 33	Logic Design	@	04		03	25	100	125
10ES – 34	Network Analysis	@	04		03	25	100	125
10IT– 35	Electronic Instrumentation	@	04		03	25	100	125
10ES – 36	Field Theory	@	04		03	25	100	125
10ESL – 37	Analog Electronics Lab	@		03	03	25	50	75
10ESL – 38	Logic Design Lab	@		03	03	25	50	75
		Total	24	06	24	200	700	900

**SCHEME OF TEACHING & EXAMINATION
ELECTRONICS & COMMUNICATION ENGINEERING
IV SEMESTER (COMMON TO EC/TC/ML)**

Subject Code	Title	Teach Dept.	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/ Practical	Total Marks
10MAT - 41	Engg. Mathematics – IV	Mat	04		03	25	100	125
10ES– 42	Microcontrollers	@	04		03	25	100	125
10ES – 43	Control Systems	@	04		03	25	100	125
10EC – 44	Signals & Systems	@	04		03	25	100	125
10EC– 45	Fundamentals of HDL	@	04		03	25	100	125
10EC – 46	Linear ICs & Applications	@	04		03	25	100	125
10ESL – 47	Microcontrollers Lab	@		03	03	25	50	75
10ECL – 48	HDL Lab	@		03	03	25	50	75
		Total	24	06	24	200	700	900

Note : @ indicates concerned discipline. **ES (for theory) & ECL (for Lab)** in the subject code indicates that the subject is common to electrical and electronics stream consisting of **EE/EC/IT/TC/ML/BM branches** of engineering

FIFTH SEMESTER

Common to EC/TE

Subject Code	Title	Teaching Department	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/Practical	Total Marks
10AL - 51	Management & Entrepreneurship	EC	04		03	25	100	125
10EC- 52	Digital signal Processing	EC	04		03	25	100	125
10EC 53	Analog Communication	EC	04		03	25	100	125
10TE - 54	Trans. Lines & Waveguides	EC	04		03	25	100	125
10EC-55	Digital Switching Systems	EC	04		03	25	100	125
10EC – 56	Fundamentals of CMOS VLSI	EC	04		03	25	100	125
10ECL – 57	DSP Lab	EC		03	03	25	50	75

10ECL - 58	Analog Communication Lab + LIC Lab	EC		03	03	25	50	75
		Total	24	06	24	200	700	900

SIXTH SEMESTER

for TE Branch

Subject Code	Title	Teaching Dept.	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/ Practical	Total Marks
10EC/TE- 61	Digital Communication	EC	04		03	25	100	125
10EC/TE - 62	Microprocessors	EC	04		03	25	100	125
10EC/TE - 63	Antennas & Propagation	EC	04		03	25	100	125
10EC/TE - 64	Microwaves & Radar	EC	04		03	25	100	125
10EC/TE - 65	Information theory and Coding	EC	04		03	25	100	125
10EC - 66X	Elective-(Group-A)	EC	04		03	25	100	125
10TEL - 67	Microwave & Antenna Lab	EC		03	03	25	50	75

10TEL - 68	Microprocessors Lab	EC		03	03	25	50	75
		Total	24	06	24	200	700	900

Electives -1(Group A)

10EC661	Programming in C ++	10EC664	Adaptive Signal Processing
10EC662	Radio Frequency Integrated Circuits	10EC665	Modern Control theory
10EC663	Random Processes	10EC666	Digital System Dsign Using Verilog

SEVENTH SEMESTER

for TE Branch

Subject Code	Title	Teaching Department	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/ Practical	Total Marks
10EC/TE/-71	Computer communication Network	EC	04		03	25	100	125
10EC/TE- 72	Optical Fiber Communication	EC	04		03	25	100	125

10EC/TE - 73	Wireless Communication	EC	04		03	25	100	125
10EC/TE - 74	DSP Algorithms & Architecture	EC	04		03	25	100	125
10TC -75X	Elective -2 (Group B)		04		03	25	100	125
10TC - 76X	Elective-3 (Group C)		04		03	25	100	125
10TEL - 77	Advanced Communication			03	03	25	50	75
10TEL - 78	CCN LAB			03	03	25	50	75
		Total	24	06	24	200	700	900

Electives -2(Group B)

10EC751	Operating Systems	10EC754	Image Processing
10EC752	Digital Signal Compression	10EC755	Video Engineering
10EC753	Artificial Neural Network	10EC756	Micro & Smart Systems

Electives -3(Group C)

10EC761	Data Structures using C++	10EC764	Wavelet Transforms
10TC762	Real Time Systems	10EC765	Embedded System Design
10EC763	Pattern Recognition	10EC766	Speech Processing

EIGHTH SEMESTER

for TE Branch

Subject Code	Title	Teaching Department	Teaching hours/week		Examination			
			Theory	Practical	Duration	I. A	Theory/ Practical	Total Marks
10TE-81	Optical Networking	EC	04		03	25	100	125
10C/TE- 82	GSM	EC	04		03	25	100	125
10EC/TE -	Elective - 4(Group D)	EC	04		03	25	100	125
10EC/TE -	Elective- 5(Group E)	EC	04		03	25	100	125
10TE - 85	Project Work	EC	-	06	03	50	100	150
10TE - 86	Seminar	EC	-	-	-	50	-	50
		Total	16	06	24	200	500	700

Electives -4(Group D)

10EC831	Distributed Systems	10EC834	Mobile Computing
10EC832	Network Security	10EC835	High performance computer networks
10EC833	Internet Engineering	10EC836	Fuzzy Logic

Electives -5(Group E)

10EC841	Multimedia Communication	10EC844	Wireless Sensor Networks
10EC842	Real Time Operating Systems	10EC845	Adhoc Wireless Networks
10TE843	Modeling & Simulation of Data Networks	10EC846	Optical Computing

