

**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.

SCHEME OF TEACHING AND EXAMINATION

B.E. ELECTRONICS AND COMMUNICATION

V SEMESTER

COMMON TO EC/TE

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
01	10AL51	Management and Entrepreneurship	EC	4	-	3	25	100	125
02	10EC52	Digital Signal Processing	EC	4	-	3	25	100	125
03	10EC53	Analog Communication	EC	4	-	3	25	100	125
04	10EC54	Microwaves and Radar	EC	4	-	3	25	100	125
05	10EC55	Information Theory and Coding	EC	4	-	3	25	100	125
06	10EC56	Fundamentals of CMOS VLSI	EC	4	-	3	25	100	125
07	10ECL57	DSP Lab	EC	-	3	3	25	50	75
08	10ECL58	Analog Communication Lab + LIC Lab	EC	-	3	3	25	50	75
TOTAL				24	06	24	200	700	900

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SCHEME OF TEACHING AND EXAMINATION

B.E. ELECTRONICS AND COMMUNICATION

VI SEMESTER

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10EC61	Digital Communication	EC	4	-	3	25	100	125
2	10EC62	Microprocessors	EC	4	-	3	25	100	125
3	10EC63	Microelectronics Circuits	EC	4	-	3	25	100	125
4	10EC64	Antennas and Propagation	EC	4	-	3	25	100	125
5	10EC65	Operating Systems	EC	4	-	3	25	100	125
6	10EC66x	Elective-I (Group A)	EC	4	-	3	25	100	125
7	10ECL67	Advanced Communication Lab	EC	-	3	3	25	50	75
8	10ECL68	Microprocessor Lab	EC	-	3	3	25	50	75
TOTAL				24	06	24	200	700	900

Elective-I (Group A)

10EC661 – Analog and Mixed Mode VLSI Design
 10EC662 – Satellite Communications
 10EC663 - Random Process

10EC664 – Low Power VLSI Design
 10EC665 – Data Structure Using C++
 10EC666 – Digital System Design Using Verilog
 10EC667- Virtual Instrumentation

**SCHEME OF TEACHING AND EXAMINATION
B.E. ELECTRONICS AND COMMUNICATION**

VII Semester

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10EC71	Computer Communication Networks	EC	4	-	3	25	100	125
2	10EC72	Optical Fiber Communication	EC	4	-	3	25	100	125
3	10EC73	Power Electronics	EC	4	-	3	25	100	125
4	10EC74	Embedded System Design	EC	4	-	3	25	100	125
5	10EC75x	Elective-II (Group B)	EC	4	-	3	25	100	125
6	10EC76x	Elective-III (Group C)	EC	4	-	3	25	100	125
7	10ECL77	VLSI Lab	EC	-	3	3	25	50	75
8	10ECL78	Power Electronics Lab	EC	-	3	3	25	50	75
TOTAL				24	06	24	200	700	900

Elective-II (Group B)

10EC751 – DSP Algorithms & Architecture
 10EC752 - Micro and Smart Systems Technology
 10EC753 – Artificial Neural Network
 10EC754 – CAD for VLSI
 10EC755 – Applied Embedded System Design*
 10EC756 – Speech Processing

Elective-III (Group C)

10EC761 - Programming in C++
 10EC762 – Real Time Systems
 10EC763 - Image Processing
 10EC764 - Radio Frequency Integrated Circuits
 10EC765 - Wavelet Transforms
 10EC766 - Modeling and Simulation of Data Networks

NOTE: 06EC757 Applied Embedded System Design has a LAB component (syllabus is different and in the Theory Examination, questions from Lab experiments will also be there)

**SCHEME OF TEACHING AND EXAMINATION
B.E. ELECTRONICS AND COMMUNICATION**

VIII SEMESTER

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10EC81	Wireless Communication	EC	4	-	3	25	100	125
2	10EC82	Digital Switching System	EC	4	-	3	25	100	125
3	10EC83x	Elective-IV (Group D)	EC	4	-	3	25	100	125
4	10EC84x	Elective-V (Group E)	EC	4	-	3	25	100	125
5	10ECP85	Project Work	EC	-	6	3	100	100	200
6	10ECS86	Seminar	EC	-	3	-	50	-	50
TOTAL				16	09	15	250	500	750

Elective-IV (Group-D)

10EC831 – Distributed Systems
 10EC832 – Network Security
 10EC833 - Optical Networks
 10EC834 – High Performance Computing Networks
 10EC835 – Internet Engineering

Elective-V (Group-E)

10EE841 – Multimedia Communication
 10EC842 – Real Time Operating Systems
 10EC843 - GSM
 10EC844 - Ad-hoc Wireless Networks
 10EC845 – Optical Computing