

**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
		<b>Total</b>	<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

**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
<b>10MAT - 41</b>	<b>Engg. Mathematics – IV</b>	<b>Mat</b>	<b>04</b>		<b>03</b>	<b>25</b>	<b>100</b>	<b>125</b>
<b>10ES- 42</b>	<b>Microcontrollers</b>	<b>@</b>	<b>04</b>		<b>03</b>	<b>25</b>	<b>100</b>	<b>125</b>
<b>10ES – 43</b>	<b>Control Systems</b>	<b>@</b>	<b>04</b>		<b>03</b>	<b>25</b>	<b>100</b>	<b>125</b>
<b>10EC – 44</b>	<b>Signals &amp; Systems</b>	<b>@</b>	<b>04</b>		<b>03</b>	<b>25</b>	<b>100</b>	<b>125</b>
<b>10EC- 45</b>	<b>Fundamentals of HDL</b>	<b>@</b>	<b>04</b>		<b>03</b>	<b>25</b>	<b>100</b>	<b>125</b>
<b>10EC – 46</b>	<b>Linear ICs &amp; Applications</b>	<b>@</b>	<b>04</b>		<b>03</b>	<b>25</b>	<b>100</b>	<b>125</b>
<b>10ESL – 47</b>	<b>Microcontrollers Lab</b>	<b>@</b>		<b>03</b>	<b>03</b>	<b>25</b>	<b>50</b>	<b>75</b>
<b>10ECL – 48</b>	<b>HDL Lab</b>	<b>@</b>		<b>03</b>	<b>03</b>	<b>25</b>	<b>50</b>	<b>75</b>
		<b>Total</b>	<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

**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	AL	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 & 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
<b>TOTAL</b>				<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

**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	<b>Elective-I (Group A)</b>	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
<b>TOTAL</b>				<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

**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

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**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	<b>Elective-II (Group B)</b>	EC	4	-	3	25	100	125
6	10EC76x	<b>Elective-III (Group C)</b>	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
<b>TOTAL</b>				<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

**Elective-II (Group B)**

**Elective-III (Group C)**

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

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: 10EC755 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 Systems	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
<b>TOTAL</b>				<b>16</b>	<b>09</b>	<b>15</b>	<b>250</b>	<b>500</b>	<b>750</b>

**Elective-IV (Group-D)**

10EC831 – Distributed Systems

10EC832 – Network Security

**Elective-V (Group-E)**

10EE841 – Multimedia Communication

10EC842 – Real Time Operating Systems



10EC833 - Optical Networks  
10EC834 - High Performance Computing Networks  
10EC835 - Internet Engineering

10EC843 - GSM  
10EC844 - Ad-hoc Wireless Networks  
10EC845 - Optical Computing

