

SCHEME OF INSTRUCTION
BE
(ELECTRONICS & COMMUNICATION ENGINEERING)
Proposed from the Academic year 2015-16

BE: SEMESTER – I (common to all branches)

S. No	Course Code	Course Title	Scheme of Examination		L	T	P/Dg	Cont act Hrs/ Wk	Credits
			CIE	SEE					
1.	BS 101 MT	Engineering Mathematics I	30	70	3	1	0	4	3
2.	BS 102 PH	Engineering Physics I	30	70	3	0	0	3	3
3.	BS 103 CH	Engineering Chemistry I	30	70	3	0	0	3	3
4.	ES 101 CE	Engineering Graphics I	50	50	0	0	3+3	6	3
5.	ES 102 CE	Engineering Mechanics I	30	70	3	0	0	3	3
6.	ES 103 CS	Computer Programming and Problem Solving	30	70	3	0	0	3	3
7.	MC 101 EG	Engineering English	30	70	3	0	0	3	3
Practicals									
8.	BS 151 PH	Engineering Physics Lab I	25	50	0	0	2	2	1
9.	BS 152 CH	Engineering Chemistry Lab I	25	50	0	0	2	2	1
10.	ES 151 CS	Computer Programming Lab	25	50	0	0	2	2	1
11.	ES 152 ME	Engineering Workshop	25	50	0	0	2	2	1
12.	MC151 EG	Engineering English Lab	25	50	0	0	2	2	1
Total			355	720	18	1	16	35	26

BE: SEMESTER - II

S. No	Course Code	Course Title	Scheme of Examination		L	T	P	Hrs/ Wk	Credits
			CIE	SEE					
1.	BS 201 MT	Engineering Mathematics II	30	70	3	1	0	4	3
2.	BS 202 PH	Engineering Physics II	30	70	3	0	0	3	3
3.	BS 203 CH	Engineering Chemistry II	30	70	3	0	0	3	3
4.	PC 201 EC	Electronic Devices	30	70	3	1	0	4	3
5.	ES 221 ME	Elements of Mechanical Engineering	30	70	3	0	0	3	3
6.	ES 251 EE	Basic Electrical Engineering	30	70	3	0	0	3	3
7.	HS 201 EG	Business Communication and Presentation Skills	30	70	3	0	0	3	3
Practicals									
8.	BS 251 PH	Engineering Physics Lab - II	25	50	0	0	2	2	1
9.	BS 252 CH	Engineering Chemistry Lab II	25	50	0	0	2	2	1
10.	PC 251 EC	Electronic Devices Lab	25	50	0	0	2	2	1
11.	BS 251 CS	Computer Skills Lab	25	50	0	0	2x2	4	2
12.	HS 251 EG	Communication Skills Lab	25	50	0	0	2	2	1
Total			335	740	21	2	12	35	27

BE: SEMESTER - III

S. No	Course Code	Course Title	Scheme of Examination		L	T	P	Hrs/ Wk	Credits
			CIE	SEE					
1.	PC 301 EC	Analog Electronics - I	30	70	3	1	0	4	3
2.	PC 302 EC	Circuit Analysis	30	70	3	1	0	4	3
3.	PC 303 EC	Probability Theory & Stochastic Process	30	70	2	2	0	4	3
4.	PC 304 EC	Pulse & Digital Circuits	30	70	3	1	0	4	3
5.	BS 301 MT	Mathematics III	30	70	3	1	0	4	3
6.	MC 321 CE	Environmental Studies	30	70	3	0	0	3	3
Practicals									
7.	PC 351 EC	Pulse & Digital Lab	25	50	0	0	2	2	1
8.	ES 323 EE	Electrical Engineering Lab	25	50	0	0	2	2	1
Total			240	520	17	6	04	27	20

BE: SEMESTER - IV

S. No	Course Code	Course Title	Scheme of Examination		L	T	P	Hrs/ Wk	Credits
			CIE	SEE					
1.	PC 401 EC	Analog Electronics - II	30	70	3	1	0	4	3
2.	PC 402 EC	Network Theory	30	70	3	1	0	4	3
3.	PC 403 EC	Logic & Switching Theory	30	70	3	1	0	4	3
4.	PC 404 EC	Signal Analysis & Transform Techniques	30	70	3	1	0	4	3
5.	PC 405 EC	Electro Magnetic Theory	30	70	3	1	0	4	3
6.	HS 401 BM	Managerial Economics & Accountancy	30	70	3	0	0	3	3
Practicals									
7.	PC 451 EC	Analog Electronics Lab	25	50	0	0	2	2	1
8.	PC 452 EC	Networks Lab	25	50	0	0	2	2	1
9.	MC 451 HS	Society-Out Reach Program	25	50	0	0	2	2	1
Total			255	570	18	5	06	29	21

BE : SEMESTER - V

S. No	Course Code	Course Title	Scheme of Examination		L	T	P	Hrs/Wk	Credits
			CIE	SEE					
1.	PC 501 EC	Analog Communication	30	70	2	2	0	4	3
2.	PC 502 EC	Digital Communication	30	70	3	1	0	4	3
3.	PC 503 EC	Linear Digital Integrated Circuit Applications	30	70	2	2	0	4	3
4.	PC 504 EC	Automatic Control Systems	30	70	2	2	0	4	3
5.	PC 505 EC	Transmission Lines & Antennas	30	70	2	2	0	4	3
6.	PC 506 EC	Computer Organization & Architecture	30	70	3	1	0	4	3
Practicals									
7.	PC 551 EC	Communication Engineering Lab	25	50	0	0	2	2	1
8.	PC 552 EC	Integrated Circuits Lab	25	50	0	0	2	2	1
Total			230	520	14	10	04	28	20

BE : SEMESTER – VI

S. No	Course Code	Course Title	Scheme of Examination		L	T	P	Hrs/ Wk	Credits
			CIE	SEE					
1.	PC 601 EC	Digital Signal Processing	30	70	3	1	0	4	3
2.	PC 602 EC	Electronics Measurement & Instrumentation	30	70	3	1	0	4	3
3.	PC 603 EC	Verilog HDL	30	70	3	1	0	4	3
4.	PC 604 EC	Microprocessor & Microcontroller	30	70	2	2	0	4	3
5.	PC 605 EC	Data Comm & Computer Networks	30	70	3	1	0	4	3
6.	PE #	Professional Elective - I	30	70	3	0	0	3	3
7.	OE #	Open Elective-I	30	70	3	0	0	3	3
Practicals									
7.	PC 651 EC	Microprocessor & Microcontroller Lab	25	50	0	0	2	2	1
8.	PC 652 EC	DSP Lab	25	50	0	0	2	2	1
9.	SI*	Summer Internship*							
Total			260	590	20	6	4	30	23

*Students have to undergo summer internship of 6 Weeks duration at the end of semester VI and credits will be awarded after evaluation.

PE # Professional Elective-I:

PE 601 EC Optical Communication
 PE 602 EC Digital Image Processing
 PE 603 CS Operating Systems
 PE 604 CS Object Oriented Programming with C++

OE # Open Elective-I:

OE 601 EE Micro Electro- Mechanical Systems (MEMS)
 OE 602 CE Disaster Management
 OE 603 CE Geo Spatial Techniques
 OE 604 CS Operating Systems
 OE 605 CS OOP using Java
 *OE 606 EC Embedded Systems
 *OE 607 EC Signal Analysis & Transform Technique
 OE 608 EE Reliability Engineering
 OE 609 ME Robotics
 OE 610 ME Material Handling
 OE 611 LA Intellectual Property Rights

*** OE 606 EC and *OE 607 EC Electives are not offered to the students of Electronics & Communication Engineering Department.**

B.E - SEMESTER-VII

S. No	Course Code	Course Title	Scheme of Examination		L	T	P	Hrs/ Wk	Credits
			CIE	SEE					
1.	PC 701 EC	Embedded System Design	30	70	3	0	0	3	3
2.	PC 702 EC	VLSI Design	30	70	3	1	0	4	3
3.	PC 703 EC	Microwave Techniques	30	70	2	2	0	4	3
4.	PC 704 EC	Satellite Communication	30	70	2	2	0	4	3
5.	PE #	Professional Elective-II	30	70	3	0	0	3	3
6.	OE #	Open Elective-II	30	70	3	0	0	3	3
Practicals									
7.	PC 751 EC	Microwave Lab	25	50	0	0	2	2	1
8.	PC 752 EC	Electronic Design & Automation Lab	25	50	0	0	2	2	1
9.	ECP1	Project Work-I	50	0	-	-	2	2	2
Departmental Requirement									
10.	SI*	Summer Internship	50	-	-	-	-	-	2
Total			330	520	16	5	6	27	24

Students have to undergo summer internship of 6 Weeks duration at the end of semester VI and credits will be awarded after evaluation.

PE # Professional Elective-II:

PE 701 EC Digital Signal Processor & Architecture

PE 702 EC Artificial Neural Networks

PE 703 EE Optimization Techniques

PE 704 ME Entrepreneurship

OE # Open Elective-II:

*OE 701 EC Image Processing

OE 702 EE Optimization Techniques

OE 703 CS Database Systems

OE 704 CS Information Security

*OE 705 EC Neural Network

OE 706 EE Renewable Energy Sources

OE 707 ME Entrepreneurship

OE 708 ME Finite Element Analysis

* OE 701 EC and *OE 705 EC Electives are not offered to the students of Electronics & Communication Engineering Department.

BE: SEMESTER - VIII

S. No	Course Code	Course Title	Scheme of Examination		L	T	P	Hrs/Wk	Credits
			CIE	SEE					
1	PC 801 EC	Mobile and Cellular Communication	30	70	3	1	0	4	3
2.	HS 802 ME	Industrial & Financial Management	30	70	3	1	0	4	3
3.	PE #	Professional Elective-III	30	70	3	0	0	3	3
4.	PE #	Professional Elective-IV	30	70	3	0	0	3	3
5.	ECP2	Project Work –II	50	100	--	--	6	6	8
		Total	170	380	12	2	6	20	20

PE # Professional Elective – III

PE 801 EC Real Time Operating System
PE 802 EC Fuzzy Logic & Applications
PE 803 EC Design of Fault Tolerant Systems
PE 804 EC RADAR Systems

PE # Professional Elective-IV

PE 805 EC Global Navigational Satellite System
PE 806 EC Multirate Signal Processing
PE 807 EC CPLD and FPGA Architecture & Applications
PE 808 EC Advanced Topics in Microwave

