# **B.TECH. 4 YEAR PROGRAMME**

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

SCHEME 2019-20 (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup>Semester)

## **Detailed Scheme for B.Tech. ECE**

## B.Tech. - ECE (First Semester)

CourseNo.	Subject	Scheme of Studies Periods per Week			Credits
		L T P			
MTH 101	Engineering Mathematics I	3	1	-	4
PHY 101	Engineering Physics I	3	3 1		
CS 101	Fundamentals of Computer Programming	2	2 1 2		
EE 101	Fundamentals of Electrical & Electronics	2	2 1 2		
HUM 101	Effective Communication and soft skills	2	2 1 2*		
IT 101	Engineering Workshop	-	2		
	*Language Lab Total L=12, T=5, P =10 Total Credit		edit	22	

#### **B.Tech. – ECE (Second Semester)**

CourseNo.	Subject		Scheme of Studies Periods per week		
		L	Т	Р	
MTH 102	Engineering Mathematics-II	3	1	-	4
PHY 102	Engineering Physics-II	2	1	2	4
EG 101	Engineering Graphics	2	1	2	4
CS 102	Data Structures and Algorithms	2	1	2	4
HUM 102	Culture & Human Values	2	1	2	4
IT 102	Programming Lab	-	-	4	2
Total L=11,	T=5, P =12	То	tal Cr	edit	22

**B.Tech. - ECE (Third Semester)** 

CourseNo.	Subject	Scheme of Studies Periods per Week			Credits
		L T P			
MTH 211	Mathematics III	3	1	-	4
EC 211	Electronic Devices and Circuits	2	1	2	4
EC 212	Digital Logic and Design	2	1	2	4
EC 213	Network Analysis	2	1	2	4
EC 214	Signals and Systems	3	1	-	4
EC 216	Electronic Workshop	4			2
Total L=12, T=	5, P =10	Total Credit		22	

**B.Tech. - ECE (Fourth Semester)** 

CourseNo.	Subject	Scheme of Studies Periods per week			Credits
		L	Т	Р	
EC 221	Linear Integrated Circuits	3	1	-	4
EC 222	Microprocessors and Microcontrollers	2	1	2	4
EC 223	Analog and Digital Communication	2	1	2	4
EC 224	Database Management System	2	1	2	4
EC 225	Probability Theory and Random Process	3	1	-	4
EC 226	Entrepreneurship Development			4	2
EC 227	Community Services*	-	-	-	S/NS
Total L=12, T	Total L=12, T=5, P =10 Total Credi		Credit		22

Community Services\*: 15 days (100 Hrs) community services such as Swach bharat Abhiyan etc. to get Satisfactory (S) or Not Satisfactory (NS) Grade.

### B.Tech. – ECE (Fifth Semester)

Course No.	Subject	Scheme of	Scheme of Studies		
		Periods per	Periods per week		
		L	L T P		
EC 311	Computer Networks	2	1	2	4
EC 312	Digital Signal Processing	2	1	2	4
EC 313	EM Fields	3	1	-	4
EC 314	Control Systems	2	1	2	4
EC 315	Operating System	3	1		4
Total L=12, T=5,P=6		Total (	Credit		20

### **B.Tech.- ECE (Sixth Semester)**

Course No.	Subject	Scheme of Studies			Credits
		Periods pe	Periods per week		
		L	Т	Р	
EC 321	Introduction to VLSI	2	1	2	4
EC 322	Optical Communication	2	1	2	4
EC 323	Microwave Engineering	2	1	2	4
EC 324	Wireless Communication	3	-	-	3
L-1	EC Elective 1	3	-	-	3
EC 325	Minor Project	-	4		
Total L=12, T	Total L=12, T=3,P=10 Total Credit			20	

### List of Electives Level -1 (Any one Subject for VI Semester)

Signal Processing Stream		Commun Stream	nication	VLSI & E System S	mbedded Stream	Robotics Stream	
EC 501	Digital Image Processing	EC 502	Artificial Neural Networks	EC 503	Digital System Design	EC 504	Power Electronics