

## 4 year B. Tech. ECE Degree Course Structure

### FIRST SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11HS111	Life Skills	1	1	-	2	2
2.	15B11MA111	Mathematics-1	3	1	-	4	4
3.	15B11PH111	Physics-1	3	1	-	4	4
4.	15B11EC111	Electrical Science-I	3	1	-	4	4
5.	15B11CI111	Software Development Fundamentals-1	3	1	-	4	4
6.	15B11HS112	English	2	1	-	3	3
7.	15B17PH171	Physics Lab-1	-	-	2	2	1
8.	15B17EC171	Electrical Science Lab-I	-	-	2	2	1
9.	15B17CI171	Software Development Lab-1	-	-	4	4	2
		TOTAL				29	25

### SECOND SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11HS211	Economics	2	1	-	3	3
2.	15B11MA211	Mathematics-2	3	1	-	4	4
3.	15B11PH211	Physics-2	3	1	-	4	4
4.	15B11EC211	Electrical Science-II	3	1	-	4	4
5.	15B11CI211	Software Development Fundamentals-2	3	1	-	4	4
6.	15B11EC212	Electrical Machines and Instruments	3	1	-	4	4
7.	15B17PH271	Physics Lab-2	-	-	2	2	1
8.	15B17EC271	Electrical Science Lab - II	-	-	2	2	1
9.	15B17CI271	Software Development Lab-2	-	-	2	2	1
		TOTAL				29	26

### THIRD SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective - 1	2	1	-	3	3
2.	15B11MA301	Probability and Random Processes	3	1	-	4	4

3.	15B11EC311	Signals and Systems	3	1	-	4	4
4.	15B11EC312	Digital Electronics	3	1	-	4	4
5.	15B11EC313	Microprocessors and Microcontrollers	3	1	-	4	4
6.	15B17EC373	Microprocessors and Microcontrollers Lab	-	-	2	2	1
7.	15B17EC371	Signals and Systems Lab	-	-	2	2	1
8.	15B17EC372	Digital Electronics Lab	-	-	2	2	1
9.	15B17EC375	Electrical Machines and Instruments Lab	-	-	2	2	1
		TOTAL				27	23

### FOURTH SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective – 2	2	1	-	3	3
2.	15B11EC411	Analogue Electronics	3	1	-	4	4
3.	15B11EC412	Analogue Communications	3	1	-	4	4
4.	15B11EC413	Digital Signal Processing	3	1	-	4	4
5.	15B11EC414	VLSI Technology and Applications	3	1	-	4	4
6.	15B17EC471	Analogue Electronics Lab	-	-	2	2	1
7.	15B17EC472	Analogue Communications Lab	-	-	2	2	1
8.	15B17EC473	Digital Signal Processing Lab	-	-	2	2	1
9.	15B17EC474	VLSI Lab	-	-	2	2	1
		TOTAL				27	23

### FIFTH SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective-3	2	1	-	3	3
2.	15B11EC511	Digital Communications	3	1	-	4	4
3.	15B11CI518	Data Structures and Algorithms	3	1	-	4	4
	Xxxxx	Selected Foreign Language	2/3			2/3	Audit
4.	Xxxxx	Science Elective - 1	3	1	-	4	4
5.	15B19EC591	Minor Project – 1					5
6.	15B11EC571	Digital Communications Lab	-	-	2	2	1
7.	15B17CI578	Data Structures and Algorithms Lab	-	-	2	2	1
8.	15B17CI579	Unix Programming Lab	-	-	2	2	1
9.	15B11GE301	Environmental Science	3	-	-	3	3
		TOTAL				24	26

## SIXTH SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	HSS Elective -4	2	1	-	3	3
2.	15B11EC611	Telecommunication Networks	3	1	-	4	4
3.	15B11EC612	Electromagnetic Engineering	3	1	-	4	4
4.	15B11EC613	Control Systems	3	1	-	4	4
5.	Xxxxx	Science Elective - 2	3	1	-	4	4
		Selected Value Added Course	2/3			2/3	Audit
6.	15B17EC671	Telecommunication Networks Lab	-	-	2	2	1
7.	15B19EC691	Minor Project-2	-	-			5
		TOTAL				24	25

Students will undergo 6 week's Industrial Training during Summer Vacation after the 6th Semester.

## SEVENTH SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	15B11EC711	Mobile Communication	3	1	-	4	4
2.	Xxxxx	ECE Elective-1	3	1	-	4	4
3.	Xxxxx	ECE Elective-2	3	1	-	4	4
4.	Xxxxx	Open Elective – 1	3		-	3	3
5.	15B19EC791	Major Project Part-1	-	-			4
6.	15B19EC792	Term Paper	-	-	-	-	3
	15B19EC793	Summer Training Viva	-	-	-	-	2
		TOTAL				19	24

## EIGHTH SEMESTER

Sr.No.	Course		Contact Hours				Credits
	No.	Title	L	T	P	Total	
1.	Xxxxx	ECE Elective-3	3	1	-	4	4
2.	Xxxxx	ECE Elective-4	3	1	-	4	4
3.	Xxxxx	Open Elective – 2	3		-	3	3
4.	15B19EC891	Major Project Part-2	-	-			12
		TOTAL				21	23

**Total Credits for B. Tech. –195**