

Semester-wise course plan of the courses offered by the

Department of ECE for the B. Tech programme

Semester-I

Sl. No.	Course Type Code	Course Name	L	T	P	CR	CH
1.	CH103	Chemistry	3	0	1	4	5
2.	MS104	Mathematics-I	3	1	0	4	4
3.	EE103	Basic Electrical Engineering	3	0	0	3	3
4.	EE104	Basic Electrical Engineering Lab	0	0	1	1	2
5.	PH103	Physics-I	2	0	1	3	4
6.	EF103	English	2	0	1	3	4
7.	SE100	Induction Program	-	-	-	-	8
		Total-	13	1	4	18	30

Semester-II

Sl. No.	Course Type Code	Course Name	L	T	P	CR	CH
1.	PH104	Physics-II	2	0	0	2	2
2.	MS105	Mathematics-II	3	1	0	4	4
3.	EC102	Basic Electronics	2	1	1	4	5
4.	ME103	Workshop Practice	0	0	2	2	4
5.	CO103	Introductory Computing	3	0	0	3	3
6.	CO104	Computing Lab	0	0	2	2	4
7.	ME102	Engineering Mechanics	3	1	0	4	4
8.	CE103	Engineering Graphics	1	0	2	3	5
		Total-	14	3	7	24	31

Semester-III

Sl. No.	Course Type Code	Course Name	L	T	P	CR	CH
1.	EC201	Electronics Devices	3	0	0	3	3
2.	EC202	Electronics Devices Lab	0	0	1	1	2
3.	EC203	Digital System Design	3	0	0	3	3
4.	EC204	Digital System Design Lab	0	0	1	1	2
5.	EC205	Signals and Systems	3	0	0	3	3
6.	EC206	Network Theory	3	0	0	3	3
7.	MS205	Mathematics-III	3	0	0	3	3
8.	BA201	Economics	3	0	0	3	3
9.	ES201	Environmental Science	1	0	1	0	3
		Total-	19	0	3	20	25

Semester-IV

Sl. No.	Course Type Code	Course Name	L	T	P	CR	CH
1.	EC207	Analog & Digital Communication	3	0	0	3	3
2.	EC208	Analog & Digital Communication Lab	0	0	1	1	2
3.	EC209	Analog Circuits	3	0	0	3	3
4.	EC210	Analog Circuits Lab	0	0	1	1	2
5.	EC211	Microcontroller and Microprocessor	3	0	0	3	3
6.	EC212	Microcontroller Lab	0	0	1	1	2
7.	BT201	Biology	3	0	0	3	3
8.	CS201	Data Structure & Operating System	2	0	1	3	4
		Total	14	0	4	18	22

Semester-V

Sl. No.	Course Type Code	Course Name	L	T	P	CR	CH
1.	EC301	Electromagnetic Waves	3	0	0	3	3
2.	EC302	Electromagnetic Waves Lab	0	0	1	1	2
3.	EC303	Computer Architecture	3	0	0	3	3
4.	EC304	Probability Theory & Stochastic Process	3	0	0	3	3
5.	EC305	Digital Signal Processing	3	0	0	3	3
6.	EC306	Digital Signal Processing Lab	0	0	1	1	2
7.		ECE Elective-I(any one from the subjects below)	3	0	0	3	3
	EC307	• Mobile communication& Networks					
	EC308	• <i>Electrical machines and power protection</i>					
	EC309	• Intelligent instrumentation					
	EC310	• CMOS design					
	EC322	• <i>Fundamentals of Machine Learning and Deep Learning with Applications</i>					
8.		Open Elective-I	3	0	0	3	3
9.	LW301	Indian constitution (MC- Non Credit)	1	0	0	0	1
		Total	19	0	2	20	22

Semester-VI

Sl. No.	Course Type Code	Course Name	L	T	P	CR	CH
1.	EC311	Control System	3	0	0	3	3
2.	EC312	Computer Network	3	0	0	3	3
3.	EC313	Computer Network Lab	0	0	2	2	4
4.	EC314	Electronic Measurement Lab	0	0	1	1	2
5.	EC315	Mini Project	0	0	2	2	4
6.		ECE Elective-II(any one from the subjects below)	3	0	0	3	3
	EC316	• <i>Microwave techniques</i>					
	EC317	• <i>Speech and Audio processing</i>					
	EC318	• Digital image and video processing					
	EC319	• <i>VLSI Design</i>					
7.		Open Elective-II	3	0	0	3	3
8.	IC361	Accounting & Financial Management	3	0	0	3	3
		Total	15	0	5	20	25

Students will undergo a summer training of 4 weeks after 6th semester during summer vacation and submit the report and the certificate of completion in the department in the beginning of 7th semester.

Semester-VII

Sl. No.	Course Type Code	Course Name	L	T	P	CR	CH
1.		ECE Elective -III(any one from the subjects below)	3	0	0	3	3
	EC401	• Information Theory & Coding					
	EC402	• Embedded systems					
	EC403	• Satellite communication					
	EC404	• Digital systems and VHDL					
2.		ECE Elective-IV(any one from the subjects below)	3	0	0	3	3
	EC405	• Computer Vision					
	EC406	• Biomedical Signal Processing					
	EC407	• Antenna and propagation					
	EC408	• Digital control system					
3.		ECE Elective-V(any one from the subjects below)	3	0	0	3	3
	EC409	• Introduction to MEMS					
	EC410	• Biomedical electronics					
	EC411	• Fibre optic communication					
	EC412	• Nano-electronics					
4.		ECE Elective-VII(any one from the subjects below)	3	0	0	3	3
	EC413	• Fuzzy Logic and Neural network					
5.		Open Elective -III	3	0	0	3	3
6.	EC417	Project- Stage I	0	0	6	6	12

Semester-VIII

Sl. No.	Course Code	Course Name	L	T	P	CR	CH
1.		ECE Elective-VI(any one from the subjects below)	3	0	0	3	3
	EC418	• Power electronics					
	EC419	• Mixed signal design					
2.		Open Elective-IV	3	0	0	3	3
3.	EC421	Project- Stage II	0	0	10	10	20
		Total	9	0	10	16	26