

**II/IV B.TECH ECE (FOUR YEAR COURSE) &
II/VI B.TECH ECE (SIX YEAR DOUBLE DEGREE COURSE)
(With effect from 2019-2020 admitted batches onwards)**

B.TECH. (ECE) 2ND YEAR I-SEMESTER SCHEME OF INSTRUCTION AND EXAMINATION								
CODE NUMBER	COURSE	HOURS PER WEEK			MAXIMUM MARKS			CREDITS
		THEORY	TUTORIAL	LAB	EXAM	SESSIONALS	TOTAL	
ECE 2101	Mathematics IV	3	0	0	70	30	100	3
ECE 2102	Network Theory Analysis	3	0	0	70	30	100	3
ECE 2103	Electrical Machines	3	0	0	70	30	100	3
ECE 2104	Electronic Devices and Circuits	3	0	0	70	30	100	3
ECE 2105	Switching Theory and Logic Design	3	0	0	70	30	100	3
ECE 2106	Data Structures	3	0	0	70	30	100	3
ECE 2107	Network and Machines Lab	0	0	3	50	50	100	1.5
ECE 2108	Electronic Devices & Circuits Lab	0	0	3	50	50	100	1.5
	Total	18	0	6	520	280	800	21

B.TECH. (ECE) 2ND YEAR II-SEMESTER SCHEME OF INSTRUCTION AND EXAMINATION								
CODE NUMBER	COURSE	HOURS PER WEEK			MAXIMUM MARKS			CREDITS
		THEORY	TUTORIAL	LAB	EXAM	SESSIONALS	TOTAL	
ECE 2201	Mathematics V	3	0	0	70	30	100	3
ECE 2202	Electromagnetic Field Theory & Transmission Lines	3	0	0	70	30	100	3
ECE 2203	Analog Electronics Circuits	3	0	0	70	30	100	3
ECE 2204	Probability Theory & Random Process	3	0	0	70	30	100	3
ECE 2205	Signals & Systems	3	0	0	70	30	100	3
ECE 2206	Environmental Studies	2	0	0	70	30	100	0
ECE 2207	Digital ICs and HDL Lab	0	0	3	50	50	100	1.5
ECE 2208	Analog Electronics & Circuits Lab with Simulation	0	0	3	50	50	100	1.5
	Total	17	0	6	520	280	800	18

**III/IV B.TECH ECE (FOUR YEAR COURSE) &
III/VI B.TECH ECE (SIX YEAR DOUBLE DEGREE COURSE)
(With effect from 2019-2020 admitted batches onwards)**

B.TECH. (ECE) 3RD YEAR I-SEMESTER SCHEME OF INSTRUCTION AND EXAMINATION								
CODE NUMBER	COURSE	HOURS PER WEEK			MAXIMUM MARKS			CREDITS
		THEORY	TUTORIAL	LAB	EXAM	SESSIONALS	TOTAL	
ECE 3101	Linear ICs & Applications	3	0	0	70	30	100	3
ECE 3102	Analog Communications	3	0	0	70	30	100	3
ECE 3103	Core Elective I	3	0	0	70	30	100	3
ECE 3104	Antenna & Wave Propagation	3	0	0	70	30	100	3
ECE 3105	Pulse and Digital Circuits	3	0	0	70	30	100	3
ECE 3106	Digital Signal Processing	3	0	0	70	30	100	3
ECE 3107	Soft Skills	2	0	0	-	100	100	0
ECE 3108	Linear ICs and Pulse Circuits Lab	0	0	3	50	50	100	1.5
ECE 3109	Analog Communications Lab	0	0	3	50	50	100	1.5
	Total	20	0	6	520	280	800	21

B.TECH. (ECE) 3RD YEAR II-SEMESTER SCHEME OF INSTRUCTION AND EXAMINATION								
CODE NUMBER	COURSE	HOURS PER WEEK			MAXIMUM MARKS			CREDITS
		THEORY	TUTORIAL	LAB	EXAM	SESSIONALS	TOTAL	
ECE 3201	Computer Network Engineering	3	0	0	70	30	100	3
ECE 3202	Microprocessors & Microcontrollers	3	0	0	70	30	100	3
ECE 3203	Digital Communications	3	0	0	70	30	100	3
ECE 3204	Core Elective II	3	0	0	70	30	100	3
ECE 3205	Digital Image Processing	3	0	0	70	30	100	3
ECE 3206	Control Systems	3	0	0	70	30	100	3
ECE 3207	DSP Lab	0	0	3	50	50	100	1.5
ECE 3208	Microprocessors & Microcontrollers Lab	0	0	3	50	50	100	1.5
	Total	18	0	6	520	280	800	21

**IV/IV B.TECH ECE (FOUR YEAR COURSE) &
IV/VI B.TECH ECE (SIX YEAR DOUBLE DEGREE COURSE)
(With effect from 2019-2020 admitted batches onwards)**

B.TECH. (ECE) 4th YEAR I-SEMESTER SCHEME OF INSTRUCTION AND EXAMINATION								
CODE NUMBER	COURSE	HOURS PER WEEK			MAXIMUM MARKS			CREDITS
		THEORY	TUTORIAL	LAB	EXAM	SESSIONALS	TOTAL	
ECE 4101	Managerial Economics	2	0	0	70	30	100	2
ECE 4102	Information Theory & Coding	3	0	0	70	30	100	3
ECE 4103	VLSI Design	3	0	0	70	30	100	3
ECE 4104	Microwave Engineering	3	0	0	70	30	100	3
ECE 4105	Core Elective III	3	0	0	70	30	100	3
ECE 4106	Digital Communications Lab	0	0	3	50	50	100	1.5
ECE 4107	Project-I	0	0	10	0	100	100	5
	Total	14	0	13	400	300	700	20.5

B.TECH. (ECE) 4th YEAR II-SEMESTER SCHEME OF INSTRUCTION AND EXAMINATION								
CODE NUMBER	COURSE	HOURS PER WEEK			MAXIMUM MARKS			CREDITS
		THEORY	TUTORIAL	LAB	EXAM	SESSIONALS	TOTAL	
ECE 4201	Industrial Management & Entrepreneurship	2	0	0	70	30	100	2
ECE 4202	Cellular Mobile Communication	3	0	0	70	30	100	3
ECE 4203	Radar Engineering	3	0	0	70	30	100	3
ECE 4204	Core Elective IV	3	0	0	70	30	100	3
ECE 4205	Microwave Engineering Lab	0	0	3	50	50	100	1.5
ECE 4206	Project-II	0	0	16	50	50	100	8
	Total	11	0	19	380	220	600	20.5

Core Elective-II

Core Elective –I

1. Computer Architecture & Organization
2. Networks & Protocols
3. Internet & Web Technology
4. Software Engineering
5. OOPS

1. Wireless Sensor Networks
2. Micro Electronics
3. EMI/EMC
4. DSP Processors & Architectures
5. Electronic Measurements and Instrumentation

Core Elective –III

1. Fiber Optic Communications
2. Data Communications
3. Bio Medical Signal Processing
4. Embedded Systems
5. TV and Satellite Communication

Core Elective-IV

1. Global Positioning System
2. Tele Communication Switching Systems
3. Smart Antenna Systems
4. Radar Signal Processing
5. Artificial Neural Networks