

Bachelor of Technology in Electronics and Communication Engineering- (2019-20)

Sem	Semester Course Code, Course Name (L-T-P) Credits							GP	CS	Hrs. Per week			Cont act Hrs	Credit s
	L	T	P											
1	MAL151 Engg Maths-I (3-0-2)4	CSL106 FOCP-I (2-0-4)4	CHL150 Engg Chemistry (2-0-2)3	CLL101 Effective Communication- I (2-1-0)2.5	MEP110 Engineering Graphics & Drawing (1-0-4)3	ECL110 Basic of Electrical & Electronics Engineering (2-0-2)3	CLL120 HVPE (2-0-0-)2	ECR107 GP 1 Credits		12	1	14	405	21.5+1 =22.5
2	MAL152 Engg Maths-II (3-0-2)4	CSL108 FOCP-II (2-0-4)4	PHY150 Engineering Physics (3-0-2)4	CLL102 Effective Communication- II (2-1-0)2.5	MEL150 Basic of Mechanical & Civil Engg. (2-0-2)3	CSL110 Problem Solving and Design Thinking (2-0-2)3		ECR108 GP 1 Credits		14	1	12	405	20.5+1 =21.5
Summer ECT101 In House Summer Internship														01
3	ECL251 Analog Electronics & Integrated circuits (3-0-2)4	ECL253 Fields, waves and Antennas (3-0-2)4	ECL255 DE & CA (3-0-2)4	CSL225 Programming for data science (2-0-4)4	SML300 Entrepreneur ship (3-0-0)3	SML*** Liberal arts (3-0-0)3		ECR207 GP 1 Credits	ECS 201 CS-III (35-Hrs)	17		10	405	22+1= 23
4	ECL256 Embedded System Design (3-0-2)4	ECL252 Micro Controllers & Sensors (3-0-2)4	ECL254 Analog and Digital Communicati ons (3-0-2)4	ECL258 Signal processing (3-0-2)4	Program Elective-1 (2-0-4)4			ECR208 GP 1 Credits	ECS 202 CS-IV (35-Hrs) 1 Credit	14		12	390	20+1= 21
Summer ECT201 Industrial Training/Swachha Bharat internship including 7 days community service														02+1
5	CSL236 Introduction to AI & ML / CSL242 AI for Games (3-0-2)4	ECL 270 Control systems and power electronics (3-0-2)4	Program Elective-2 (2-0-4)4	Program Elective-3 (2-0-4)4	Open Elective – 1* (MOOC) (3-0-0)3		ECV201 Skill Developm ent 1 Credit	ECR307 GP 1 Credits	ECS 301 CS-V	15		12	405	20+1= 21
6	ECL302 Data comm and networks (3-0-2) 4	Program Elective-4 (2-0-4)4	Program Elective-5 (2-0-4)4	Program Elective-6 (2-0-4)4	Open Elective-2 (3-0-0)3	CLP300 Campus to Corporate (1-0-0)1	ECC301 Seminar 1 Credit	CSR308 GP 1 Credits	ECS 302 CS-VI (140-Hrs)* 2 Credit	13		14	405	21+2= 23
Summer ECT301 Industrial Training														03
7	Program Elective- 7 (2-0-4)4	Program Elective- 8 (2-0-4)4	ECD401 Project # 1 4 Credits	Open Elective – 3* (MOOC) (3-0-0)3	CHL100 EVS (3-0-0)3	Foreign Language (3-0-0)3			ECS 401 CS-VII	13		8	315	21
8	Open Elective – 4* (MOOC) (3-0-0)3	Open Elective – 5* (MOOC) (3-0-0)3	ECD402 Project # 2 /Internship 6 Credits	SEG 400 Self-Study Course GATE Audit					ECS 402 CS-VIII (140-Hrs) 2 Credits	6			90	12+2= 14
Total										10 4	2	82		164+6 +4= 174

- *Students can utilize summer or winter break period to complete remaining 140 community service hours

Program Electives for each track

Tracks	IOT	Embedded System & VLSI Design
Program Elective-1	CSL253 Web frameworks	ECL261 Linux & Scripting
Program Elective-2	ECL451 Image Processing and Computer Vision I	ECL262 CMOS VLSI Design & Layout
Program Elective-3	CSL364 Cloud & Fog Computing	ECL361 Data Structures & OOPs
Program Elective-4	ECL316 Wireless & Mobile Communication	ECL264 RTL Design & Synthesis
Program Elective-5	CSL361 Security in IoT	ECL362 Real Time Operating Systems
Program Elective-6	CSL234 Data Engineering	ECL366 VLSI Physical Design
Program Elective-7	CSL362 Big Data	ECL364 Verification Methodologies & Bus Architectures
Program Elective-8	ECL352 Design for IoT	ECL461 Embedded Systems and VLSI Industry: Employment & Higher Studies Trends