Semester	Category Code	Course Code	Course Name	Theory	Tutorial	Practical	Hrs	Credits
Semester 1	BSC		Mathematics – II	3	1	0	4	4
	BSC		Chemistry	3	0	0	3	3
	BSC		Chemistry Lab	0	0	2	2	1
	ESC		Element of Mechanical Engineering	3	0	0	3	3
	ESC		Element of Mechanical Engineering	0	0	2	2	1
	ESC		Basic Electronics	2	0	0	2	2
	ESC		Basic Electronics Lab	0	0	2	2	1
	ESC		Computer Programming - I	1	0	0	1	1
	ESC		Computer Programming Lab - I	0	0	2	2	1
	HSC		Professional Ethics and Human Values	1	0	0	1	1
	HSC		NCC/NSS/Sports	0	0	2	2	1
				13	1	10	24	19
	BSC		Mathematics - I	3	1	0	4	4
	ESC		Element of Civil Engineering & Mechanics	4	0	0	4	4
	ESC		Element of Civil Engineering & Mechanics - Lab	0	0	2	2	1
	ESC		Elements of Electrical Engineering	3	0	0	3	3
	ESC		Elements of Electrical Engineering - Lab	0	0	2	2	1
	BSC		Physics	3	0	0	3	3
Semester 2	BSC		Physics Lab	0	0	2	2	1
	ESC		Workshop Practice	0	0	2	2	1
	ESC		Engineering Graphics	1	0	0	1	1
	ESC		Engineering Graphics - Lab	0	0	2	2	1
	ESC		Computer Programming II	0	0	2	2	1
	HSC		Environmental Studies	3	0	0	3	3
	HSC		Communication Skills - I	0	0	2	2	1
	HSC		NCC/NSS/Sports	0	0	2	2	1
	HSC		Civic services and Social Internship (Summer Break)	0	0	0	0	1
				17	1	16	34	27

Semester	Category Code	Course Code	Course Name	Theory	Tutorial	Practical	Hrs	Credits
	BSC		MATHS-III	3	1	0	4	4
	РС		Electro Magnetics and Transmission Line	3	0	0	3	3
	PC		Digital Logic Design and HDL	3	0	0	3	3
Semester 3	PC		Circuits and Systems	3	0	0	3	3
Semester 5	PC		Analog Electronics-1	3	0	0	3	3
	PC		Analog Electronics-1 Lab	0	0	2	2	1
	PC		Digital Logic Design Lab	0	0	2	2	1
	PC		Simulation and Design Tools Lab	0	0	2	2	1
	OE		OE-1	3	0	0	3	3
					1	6	25	22
	PC		Analog Communication	3	0	0	3	3
	PC		Analog Electronics-2	3	0	0	3	3
	PC		Digital Signal Processing	3	0	0	3	3
	PC		Computer Communication and Networks	2	0	0	2	2
	PC		Analog Communication Lab	0	0	2	2	1
	PC		Analog Electronics-2 Lab	0	0	2	2	1
Semester 4	PC			0	0		0	0
	PC		Digital Signal Processing Lab	0	0	2	2	1
	OE		OE-2	3	0	0	3	3
	IND		Industry 4.0	2	0	0	2	2
	IND		Industry 4.0 Lab	0	0	2	2	1
	HSC		Communication Skills - II	0	0	2	2	1
	Project		Industrial Orientation (3 weeks-summer break)	0	0	0	0	1
				16	0	10	26	22

Semester	Category Code	Course Code	Course Name	Theory	Tutorial	Practical	Hrs	Credits
	PC		Digital Communication	3	0	0	3	3
	PC		Computer Design and Applications	3	0	0	3	3
	PC		Machine Learning and Applications	3	0	0	3	3
	PC		Digital Communication Lab	0	0	2	2	1
Semester 5	PC		Computer Design and Applications Lab	0	0	2	2	1
	PC		Machine Learning and Applications Lab	0	0	2	2	1
	CE		CE1(Theory)	3	0	0	3	3
	CE		CE2 (Theory)	3	0	0	2	3
	CE			0	0	0	0	0
	CE			0	0	0	0	0
	OE		OE-3	3	0	0	3	3
				18	0	6	23	21
Semester 6	PC		Embedded Systems	3	0	0	3	3
	PC		Antenna Theory and Design	3	0	0	3	3
	PC		Embedded Systems Lab	0	0	2	2	1
	PC		Electronics System design lab	0	0	2	2	1
	CE		CE3 (Theory)	3	0	0	3	3
	CE		CE4 (Theory)	3	0	0	3	3
	PC		VLSI Technology	3	0	0	3	3
	PC			0	0		0	0
	OE	OE-4	OE-4	3	0	0	3	3
	HSC		Communication Skills - III	0	0	2	2	1
	Project		Industrial Training/ IEP (6 weeks- summer break)	0	0	0	0	2
			· · · · · · · · · · · · · · · · · · ·	18	0	6	24	23

ELECTIVES

Image Processing
Opto Electronics and Optical Communication
Building blocks of Cyper Physical Systems
Probability and Statistics for Communication
Mobile Communication
Modern Control Theory

ELECTIVES

(instrumenttaion and measurement, sensor, signal conditioning, PCB design)
Cognitive and Software Defined Radio
Introduction to Quantum Computing
Information Theory and Coding
Wireless Sensor Networks
Power Electronics
Artificial Intelligence
Digital Control Systems
ELECTIVES

Semester	Category Code	Course Code	Course Name	Theory	Tutorial	Practical	Hrs	Credits]
	PC		RF and Microwave	3	0	0	3	3	
	PC	20ICXXXT	Digital CMOS VLSI Circuits	2	0	0	2	2	
	PC		RF and Microwave Lab	0	0	2	2	1	_
		20ICXXXT	Digital CMOS VLSI Circuits Lab	0	0	2	2	1	-
	CE		CE5 (Theory)	3	0	0	3	3	
Semester 7	CE		CE6(Theory)	3	0	0	3	3	
	CE		CE7(Theory)	3	0	0	3	3	
	CE			0	0	0	0	0	
	CE			0	0	0	0	0	
	CE			0	0	0	0	0	
	Project		Mini Project	0	0	6	6	3	
				14	0	10	24	19	
Semester 8	Project		Comprehensive Project	0	0	20	20	10	
				Theory	Tutorial	Practical	Hrs	Credits	
			Odd Term	63	2	32	96	81	
			Even Term	51	1	52	104	82	1
			Total	114	3	84	200	163	
	Sr. No	Code	Component	Lec	Tutorial	Practical	Hrs	Credits	Required Credits
	1	нѕс	Humanities & Social Science Including Management Courses	4	0	10	14	10	8
	2	BSC	Basic Science Courses	15	3	4	22	20	20
	3	ESC	Engineering Science Courses including Workshop, drawing, Basic of Electrical,	14	0	16	30	22	22
	4	Ind	Industry 4.0 Course	2	0	2	2	3	3
	5	PC	Professional Core Courses	43	0	24	67	55	56
	6	CE	Professional Elective Courses related to chosen specialization	24	0	0	23	24	22
	7	OE	Open Elective Subjects from Other technical / emerging subjects	12	0	0	12	12	16
	8	Project	Project work, Seminar or Internship in Industry or elsewhere	0	0	26	26	16	16
			Overall	114	3	82	196	162	163