

Division	Faculty of Engineering and Technology
School Name	School of Engineering and Technology
Department Name	Department of Electrical and Electronics Engineering
Program Name	B.Tech. Electronics & Communication Engineering

Sem	Course Type	Total Credits
I		
	University Core	
	Effective Communication	1
	Environment and Sustainability	1
	Foundations of Peace	2
	Indian Constitution	1
	Learning to Learn	1
	Yoga - I	1
	University Core Total	7
	Program Foundation	
	Linear Algebra and Differential Calculus	3
	Physics	3
	Engineering Graphics	3
	Chemistry	3
	Ideas and Innovation in Manufacturing	1
	Program Foundation Total	13
I Total		20
II		
	University Core	
	Co-creation	1
	Critical Thinking	1
	Digital Literacy	1
	Financial Literacy	1
	Yoga - II	1
	University Core Total	5
	Program Foundation	
	Integral Calculus	3
	Engineering Mechanics	3
	Programming and Problem Solving	3
	Biology	2
	Program Foundation Total	11
	Program Major	
	Digital Electronics	4
	Basics of Electrical Engineering	3
	Program Major Total	7
II Total		23
III		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - I	1
	Data Structure and Algorithm	2
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	3
	University Core	
	Research Innovation Design Entrepreneurship (RIDE)	1
	Rural Immersion	1
	Spiritual and Cultural heritage: Indian Experience	2
	University Core Total	4
	University Electives	
	University Electives - I	4
	University Electives Total	4

III	Program Foundation	
	M3-Probability and statistics	4
	M4-Signals and systems	4
	Program Foundation Total	8
	Program Major	
	Analog Circuits and Applications	4
	Program Major Total	4
III Total		23
IV		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - II	1
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	1
	University Electives	
	University Electives - II	4
	University Electives Total	4
	Program Major	
	Control System	4
	Communication System	4
	Microcontroller Applications	4
	Computer Network and Security	4
	Program Major Total	16
IV Total		21
V		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - III	1
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	1
	Program Electives	
	Program Elective - I	4
	Program Electives Total	4
	University Core	
	Managing Conflicts Peacefully: Tools and Techniques	2
	University Core Total	2
	University Electives	
	University Electives - III	4
	University Electives Total	4
	Program Major	
	Digital Communication	4
	Digital Signal Processing	4
	Laboratory Digital Signal Processing	1
	Program Major Total	9
V Total		20
VI		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Project Based Learning - IV	1
	Seminar	1
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	2
	Program Electives	
	Program Elective - II	4
	Program Electives Total	4
	University Core	
	National Academic Immersion	2
	University Core Total	2
	Program Major	
	Image Processing and Pattern Recognition	4

VI	VLSI Design	4
	Internet Of Things	4
	Program Major Total	12
VI Total		20
VII		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Internship	12
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	12
	Program Electives	
	Program Elective - III	4
	Program Electives Total	4
VII Total		16
VIII		
	Program Capstone Project/Problem Based Learning/Seminar and Internships	
	Capstone Project	13
	Program Capstone Project/Problem Based Learning/Seminar and Internships Total	13
	Program Electives	
	Program Elective - IV	4
	Program Electives Total	4
VIII Total		17
Grand Total		160

Semester	Course Name / Course Title	Program Electives
V	Electromagnetics and Radiating Systems	Program Elective - I
V	Artificial Neural Networks	Program Elective - I
V	Embedded System and RTOS	Program Elective - I
V	Computer Vision	Program Elective - I
VI	Wireless Sensor Networks	Program Elective - II
VI	Natural Language Processing	Program Elective - II
VI	Battery Management Systems	Program Elective - II
VI	Digital CMOS Design	Program Elective - II
VI	Mechatronics	Program Elective - II
VII	Wireless Communication	Program Elective - III
VII	Optimization Techniques	Program Elective - III
VII	Automotive Electronics	Program Elective - III
VII	Testing and Testability	Program Elective - III
VII	Digital Control Systems	Program Elective - III
VIII	Broadband Communication Systems	Program Elective - IV
VIII	Edge Intelligence	Program Elective - IV
VIII	Automotive Software Engineering	Program Elective - IV
VIII	Analog VLSI Design	Program Elective - IV
VIII	Robotics and Automation	Program Elective - IV