School of Engineering and Technology (SOET)
Department of Electronics and Communication Engineering
B. Tech. ECE

Category/Theme	Courses/Modules
Discipline Core (Electronics & Communication Engineering)	- Basic Electronics - Principles of Sensors & IoT - Electronic Devices - Digital Electronics - Digital System Design - Network Analysis and Synthesis - Semiconductor Devices - Electronics Circuits & Linear ICs Application - Analog Communication - Digital Signal Processing - Electromagnetic Theory - Advanced Microprocessors and Interfacing - Digital Communication - Control Systems - Wireless Networks - VLSI Design - VLSI Technology - Cellular and Mobile Communication - Optical Fiber Communication - Nano electronics - Industrial Electronics
Programming & Computer Engineering	- Essentials of Information Technology - Programming Logics' - Object Oriented Programming with Java - Data Structure and Application - Computer Programming Lab (PYTHON) - Software Lab-I - Software Lab-II
Basic Sciences and Engineering	Calculus for Engineers

Category/Theme	Courses/Modules
	• Statistics for Engineers • Engineering Mechanics • Principles of Electrical Engineering • Engineering Graphics • Electronics Workshop Practice
Humanities, Social Sciences, and Professional Development	• Communication Skills & Colloquium • Making of Modern India • Environmental Pollution & Global Issues • Intellectual Property Rights • Seminar • Internship
Electives and Projects	• Evaluation of Industrial Training-I • Evaluation of Industrial Training-II • Open Electives (OE) • Micro Project (PBL) • Mini Project • Major Project
Emerging and Interdisciplinary	• Principles of Sensors & IoT • Fundamentals of Arduino Programming • Architecture of Smart IoT Devices • Wireless Sensor Networks & IoT • Machine Learning • Electric Vehicle Technology • Wireless Ad hoc Networks • Cloud Computing • Digital Image & Video Processing • Micro Electro Mechanical System (MEMS) • Web Technologies • IoT Data Analytics • Soft Computing