	COURSE OUTCOME	
	B.Sc. Electronics	
	ELE-100 Electronics Devices and Circuits	
	At the end of this Course, student will have developed the ability to:	
CO-1	Understand a regulated power supply using rectifiers and filters.	
CO-2	Learn transistor biasing circuit for class A, B, AB and C amplifier.	
CO-3	Analyse a system as per the requirements and specifications.	
CO-4	Learn about FET/MOSFET as amplifier.	

	COURSE OUTCOME	
	B.Sc. Electronics	
	ELE-111 Analog Fundamentals - EDA	
	At the end of this Course, student will have developed the ability to:	
CO-1	Define the basic laws in circuit analysis and identify and state the role and functions of	
	various electronic components.	
CO-2	Understand the working of diode, transistor and apply the same to build dc power supplies	
	and transistor amplifiers.	
CO-3	Design filters and Oscillators using Op-Amp.	
CO-4	Develop skills in using EDA tools and analyse the performance of Analog circuits using EDA	
	tools.	

	COURSE OUTCOME	
	B.Sc. Electronics	
	ELE-141 Electronics for Beginners	
	At the end of this Course, student will have developed the ability to:	
CO-1	Understand the basics of Electronics.	
CO-2	Learn to draw schematics and also the implement the circuit on breadboards.	
CO-3	Implement electronics circuits of practical use.	
CO-4	Modify the implemented electronics circuits for some applications.	

	COURSE OUTCOME	
	B.Sc. Electronics	
	ELE-131 Introduction to Electricity	
	At the end of this Course, student will have developed the ability to:	
CO-1	Understand basics of electrical components.	
CO-2	Understand electrical wiring and safety measures.	
CO-3	Understand lighting and its applications	
CO-4	Apply the knowledge and techniques to design wiring and lightning for housing and	
	commercial setup.	
CO-5	Get self-employed in ever growing battery industry	

	COURSE OUTCOME	
	B.Sc. Electronics	
	ELE-132 Repair and Maintenance of Domestic Electrical appliances	
	At the end of this Course, student will have developed the ability to:	
CO-1	Acquire the basic knowledge of electricity and domestic wiring.	
CO-2	Understand the working of basic electrical appliances and their safety precautions.	
CO-3	Able to do repair and maintenance of the basic electrical appliances.	
CO-4	Able to do repair and maintenance of the motorized and heating type electrical appliances.	

COURSE OUTCOME
B.Sc. Electronics
ELE-142 PCB Designing and Fabrication

	At the end of this Course, student will have developed the ability to:	
CO-1	Explain and describe the steps involved in schematic, layout, fabrication, and assembly	
	process of PCB design.	
CO-2	Able to design a single- and double-layer PCB	
CO-3	Able to fabricate the single land double layer PCB.	
CO-4	Able to design and troubleshoot the circuit over PCB.	
CO-5	Able to design his own circuit for any application.	

	COURSE OUTCOME B.Sc. Electronics	
	ELE-161 CCTV Installation	
	At the end of this Course, student will have developed the ability to:	
CO-1	Understand basics of Network & CCTV Technology.	
CO-2	Install CCTV System	
CO-3	Maintain of CCTV systems.	
CO-4	Student can take some installation under guidance of lecture/ entrepreneur.	

	COURSE OUTCOME	
	B.Sc. Electronics	
	ELE-200 Basic Circuit Theory and Network Analysis	
	At the end of this Course, student will have developed the ability to:	
CO-1	Explain classification of electrical network circuits and theorems	
CO-2	Understand the Laplace transforms and s-domain analysis	
CO-3	Learn the transient response, dc response of RLC networks and different two-port networks	
CO-4	Apply the knowledge of basic circuit law to simplify the networks using network theorems.	

	COURSE OUTCOME
	B.Sc. Electronics
	ELE-201 Linear Integrated Circuits
	At the end of this Course, student will have developed the ability to:
CO-1	Understand the applications of Op-Amp in linear electronic circuits.
CO-2	Analyse the various configurations of Op-Amp
CO-3	Learn the filters and oscillators used in various electronic circuits
CO-4	Learn to troubleshoot specified applications using various linear ICs

	COURSE OUTCOME
	B.Sc. Electronics
	ELE-211 Digital Fundamental- EDA
	At the end of this Course, student will have developed the ability to:
CO-1	Explain classification of digital electronic circuits, the logic gates and logic families.
CO-2	Understand Boolean algebra and apply to design, analyse and build various digital circuits
CO-3	Learn to Build the sequential circuits and understand the analog and digital converters
CO-4	Develop skills in using EDA tools and analyse the performance of digital circuits using EDA
	tools.

	COURSE OUTCOME
	B.Sc. Electronics
	ELE-231 Computer Troubleshooting and Maintenance
	At the end of this Course, student will have developed the ability to:
CO-1	Acquire knowledge of Finding Faults in Components
CO-2	Install, Configure and maintain various components in computer systems and peripherals.
CO-3	Diagnose faults of Different Component
CO-4	Repair and maintain computer systems and its peripherals.

	COURSE OUTCOME	
	B.Sc. Electronics	
ELE-241 PLC and HMI		
	At the end of this Course, student will have developed the ability to:	
CO-1	Understand working principle PLC, HMI.	
CO-2	Understand working principle DCS and SCADA.	
CO-3	Develop necessary skill to implement consumer and industrial based applications using PLC.	
CO-4	Develop PLC based applications for various appliances and devices.	

	COURSE OUTCOME
	B.Sc. Electronics
	ELE-202 8085- Microprocessor
	At the end of this Course, student will have developed the ability to:
CO-1	Understand the basics of Microprocessor Architecture.
CO-2	Analyze addressing modes, Instruction categories, memory mapping.
CO-3	Develop assembly programs using Microprocessor.
CO-4	Build a microprocessor system to interface devices.
	COURSE OUTCOME
	B.Sc. Electronics
	ELE-203 Transducers and Instrumentation
	At the end of this Course, student will have developed the ability to:
CO-1	Explain the Performance characteristics and compare the various types of standards used in
	measurements.
CO-2	Explain the working principle of various transducers.
CO-3	Explain the working principle of instruments used in electrical and electronics laboratory.
CO-4	Design hardware circuits for amplification and Signal Conditioning of Signal from Source

	COURSE OUTCOME	
	B.Sc. Electronics	
ELE-204 Electronic Communication		
	At the end of this Course, student will have developed the ability to:	
CO-1	Remember and recognize important terms, ideas and technologies in communication and	
	navigation systems learned during the course.	
CO-2	Explain the working of various electronic communication techniques, and understand the	
	importance of modulation and the working of navigation systems.	
CO-3	Analyze communication systems, apply techniques to modulate and demodulate signals.	
CO-4	Design Circuits for modulation of signal for various applications.	

COURSE OUTCOME		
	B.Sc. Electronics	
ELE-205 Programming in C		
	At the end of this Course, student will have developed the ability to:	
CO-1	Define and explain fundamental programming concepts, and apply them to write programs	
	in C.	
CO-2	Develop skills for writing an algorithm and translating in C program to solve a given problem in structured manner.	
CO-3	Develop skills for writing an algorithm and translating in C program with Control Flow Statements.	
CO-4	Develop skills for writing an algorithm and translating in C program with Pointers and	

COURSE OUTCOME		
B.Sc. Electronics		
ELE-221 Robotics		
	At the end of this Course, student will have developed the ability to:	
CO-1	Explain the basic concepts in robotics and constituents of the robotic system	
CO-2	Explain the various sensors and actuators to be used to develop robot applications	
CO-3	Develop robotic systems for various interfaces.	
CO-4	Develop robotic systems for various applications.	

COURSE OUTCOME		
B.Sc. Electronics		
ELE-261 Repair and Maintenance of Electrical and Electronics equipment		
	At the end of this Course, student will have developed the ability to:	
CO-1	Understand the technical specifications of the equipment.	
CO-2	Analyze and understand the working principle of electrical and electronic equipment.	
CO-3	Identify the common faults that occur in electrical and electronic equipment.	
CO-4	Carry out minor repairs in the equipment.	