

Department of Electronics:

Program Outcomes, Program Specific Outcomes

Programme Outcomes: B. Sc Electronics

Department of Electronics	After successful completion of three year degree program in Electronics a student should be able to;
Programme Outcomes	<p>PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of electronics like communication electronics ,programming of microprocessor and microcontroller etc.</p> <p>PO-2. To analyse and design analog and digital circuits .</p> <p>PO-3. Handle and design and calibrate electronic instruments</p> <p>PO-4. Create an awareness of the impact of electronics on the environment, society, and development outside the scientific community. PO-5. To inculcate the scientific temperament in the students and outside the scientific community.</p>
Programme Specific Outcomes	<p>PSO-1. Gain the knowledge of Electronics through theory and practicals.</p> <p>PSO-2. To explain semiconductor devices, rectifiers, amplifiers, modulations ,receivers ,transmitters, digital communication, Number system in digital electronics, Boolean equations and K map</p> <p>PSO-3. To understand Architecture of microprocessor and microcontroller and their programming</p> <p>PSO-4. To interface microprocessor and microcontroller for application purposes</p> <p>PSO-5. Thyristors and their applications in power controlling in industries</p> <p>PSO-6. Understand good laboratory practices and safety.</p> <p>PSO-7. Develop research oriented skills.</p> <p>PSO-8. make aware and handle the sophisticated instruments/equipments.</p>

F.Y.B.Sc.

Course Details	Outcomes of the Course
Paper I Semiconductor devices & network thms.	On successful completion of the course, students will able to, Understand electronic systems with a continuously variable signal To learn function of basic component's use in linear circuits. Understand component symbol, working principle, classification and specification. To learn different theorems for simplification of basic linear electronics circuits.
Paper II Digital electronicsI	To Understand basic digital electronic systems To learn function of basic digital circuits and use of transistors to create logic gates in order to perform Boolean logic. To learn different theorems for simplification of basic Digital electronics circuits. Student understand symbols, Truth tables, Boolean equations, & working principle.
Paper-IV Amplifiers	Understand Basic Circuits using Active Devices Learn function of basic circuit components used in linear circuits. Understand basic construction, equivalent circuits and characteristics of basic electronics devices. Students understand basic linear electronics circuits and their working principle,
Paper-V Digital electronicsII	Understand combinational and logical digital circuits and their differences. Students will be introduced to Flip-flop, shifts register, counters and Semiconductor memory for data Processing circuits. To learn symbol, working principle of basic Digital electronics circuits for data processing application. At the end of this course, students should be able to recognize and analyze the basic digital circuits.

S.Y.B.Sc.

Course Details	Outcomes of the Course
Paper – VII Linear Integrated ckts & oscillators	On successful completion of the course, students will able to, To understand Basic differential amplifier and their applications in linear Integrated circuits To learn basic function of operational amplifier, Ideal and practical characteristics and their mathematical application. To understand basic comparators and their application in electronics. Students understand different types of multivibrator and wave form generator using IC 555.
Paper – VIII Microprocessor I	To understand the basic architecture of 8- bit microprocessors. Able to write programs on 8085 microprocessor based systems. Identify the addressing modes of an instruction. Develop programming skills in assembly language.
Paper – X Communication Electronics	To understand the concepts of communication system. To know the various modulations and demodulation techniques. To understand the digital communication.

<p>Paper – XI Microprocessor II</p>	<p>To learn the interfacing of I/O devices with microprocessor. To learn interfacing techniques. Understand interrupt and interrupt service routine.</p>
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T.Y.B.Sc.

Course Details	Outcomes of the Course
<p>Paper – XIII Power Electronics</p>	<p>On successful completion of the course, students will able to,</p> <p>Understand power semiconductor devices used in industries. Understand the construction and working of different power semiconductor devices Understand AC & DC drive systems Understand various proximity switches ,photoelectric sensors, interfacing of sensors.</p>
<p>Paper – XIV Microcontroller</p>	<p>Ability to differentiate microprocessor and microcontroller. Describe the architecture of 8051 Able to write assembly language program for 8 bit microcontroller</p>

<p>Paper – XVI Instrumentation</p>	<p>To understand qualities of measurements like static and dynamic characteristics of instruments, errors in instruments To understand basic principle of transducers and their construction, Working principle, classification and application in various fields.</p>
<p>Paper – XVII Microcontroller II</p>	<p>To write interfacing programming. to write advanced microcontroller programming for real life application.</p>



HEAD
DEPARTMENT OF ELECTRONICS
YOGESHWARI MAHAVIDYALAYA
AMBAJOGAI



Sivandebar
Co-ordinator
Internal Quality Assurance Cell
Yogeshwari Mahavidyalaya
Ambajogai