

Amrut Sevabhavi Sanstha, Parbhani's
Late Ku. Durga K. Banmeru Science College Lonar Dist.
Buldana (Maharashtra)

Programme Specific Outcome (PSOs)

Faculty of Science

- The students get complete insight of electronics as subject.
- Students learn different types of electrical circuit designs, processing and operation.
- Understand the modeling of different circuits as per requirement.
- Could find the position as free lancer or employee in electronic kit production or design industries.

B.Sc. I, 1S	Basic Electronics	<p>electrical and electronic components. Students can recognize the components and their uses in electronics</p> <ul style="list-style-type: none"> ➤ To learn about electronics component and their application ➤ Learn circuit using electronic component. The student will get knowledge to analyze the circuit ➤ The student will learn different circuit theorem simplification of circuit will be easier using this theorem. ➤ Learn semiconductor material and its properties. Study some simple semiconductor device.
		<ul style="list-style-type: none"> ➤ To develop practical skill, student have to perform some practical in the Laboratory base on the theory which he studies. ➤ Student will perform various experiments using electronic component. ➤ The student will perform experiment on basic digital gates and some digital circuit. ➤ The student will perform some experiment on semiconductor device.
B.Sc. I, 2S	Digital Electronics	<ul style="list-style-type: none"> ➤ Ability to understand the fundamental constructional knowledge of digital electronics and its applications for developing different digital systems. ➤ Understand basic digital electronic systems ➤ Learn function of basic digital circuits and use of transistors and diode to create logic gates in order to perform Boolean logic. ➤ Learn different theorems for simplification of basic Digital electronics circuits. ➤ Understand symbols, Truth tables, Boolean equations, & working principle
		<ul style="list-style-type: none"> ➤ Perform practical on some basic semiconductor devices. ➤ Perform experiment on transistor and its characteristic in different modes. ➤ Student will perform experiment on UJT & FET and their application. ➤ Learn & study some advance digital circuit.
B.Sc. II, 3S	Electronic Devices and Circuits	<ul style="list-style-type: none"> ➤ Ability to understand the principles and working of electronics devices. ➤ Students becomes familiar with the working of electronic circuits and their applications. understand Basic Analog Circuits and their applications using Active ➤ Devices Learn basic function of single stage amplifier, multistage amplifier and power Amplifier and their working principle. ➤ Understand basic construction of feedback circuits and their application in Oscillators analog circuits. ➤ The ability to select a suitable measuring instrument for a given application. ➤ The ability to estimate and correct deviations in measurements

		<p>due to the influence of the instrument and due to the accuracy of the instrument.</p> <ul style="list-style-type: none"> ➤ Learn basic test instruments such as power supply, function generator, ➤ DFM and CRO and their construction and working principle. ➤ Understand the construction of data convertor circuits and their applications in digital circuits.
		<ul style="list-style-type: none"> ➤ Perform practical on some measuring instrument. ➤ Student will perform experiment on transistor and its application ➤ Student will perform practical on transducers and its application. ➤ Learn and study the oscillator circuits.
B.Sc. II, 4S	Communication Electronics & Microprocessor 8085	<ul style="list-style-type: none"> ➤ Knowledge of the construction of circuits, choose and apply the techniques, resources required for electronic communication and system applications. ➤ Students will also understand architecture of 8085 microprocessor and programming in ALP ➤ Study the basic differential amplifier and their application. ➤ Learn operational amplifier and its characteristics. ➤ Study active and passive filters and its application. ➤ Students understand different types of multivibrator and wave form generator using IC 55. ➤ Students can understand the basic architecture of 8085 microprocessor. ➤ Study the addressing modes and instructions of 8085. ➤ Study complete instruction set of 8085. ➤ To study various program in assembly language.
		<ul style="list-style-type: none"> ➤ Perform practical on various op amp circuits. ➤ Perform practical on multivibrators using IC 555. ➤ Student perform practical on 8085 programming in assembly language. ➤ Student perform practical on active and passive filters.
B.Sc. III, 5S	Measuring Instruments	<ul style="list-style-type: none"> ➤ Knowledge of the principles and working of electronics instrumentation and medical equipments. ➤ Students become well known with operations of electronics equipments and their applications in electronics lab. ➤ Understand the fundamental concept of semiconductor like crystal structure, energy band gap, charge carrier statistics. ➤ Understand the physics, basic characteristics and operation of semiconductor devices such as p-n junctions and Zener diodes. ➤ Have knowledge of fabrication technology for semiconductor devices and integrated circuits.
B.Sc. III, 6S	Advanced Microprocessor	<ul style="list-style-type: none"> ➤ Knowledge of the principles and working of microprocessor 8086 and microcontroller 8051. Students become able to prepare programs in microprocessor ➤ Students should understand interrupt and interrupt service routine. ➤ Understand I/O interfacing and techniques. ➤ Understand advance microprocessor