# **Department of physics PROGRAM OUTCOME B.Sc.**

The undergraduate course in physics aimed to provide the necessary input to the students coming from higher secondary level. The course is designed with a target to polish and refine the knowledge of physics, so that they becomes move familiar with fundamental concepts and problem solving approach. The course also aimed to encourage students to play pivotal role in technological development of nation and move towards innovative mindsets.

## **PROGRAM SPECEFIC OUTCOME (B.Sc.)**

The course has target to prepare candidates with scientific approach and good knowledge in physics, ready to join research, academics or administration to serve society and nation.

- To creates, select and apply proper techniques recourses and aids in multidisciplinary environment.
- To prepare them with competitive behaviour that help to find them carrier oriented lifestyle

## **Course Outcome**

#### B.Sc. I year:-

- To introduce the basics of mechanics and create problem solving approach in mechanics
- Learn the basics of properties of mater, How solid and Liquid mater behaves and give characteristics in physical changes.
- To Learn the effect of electric field and magnetic field in instrumentation and get theoretical as well as experimental knowledge of it.
- To Learn the fundamental ideas of electrostatics and magneto statics and to apply them to understand general phenomenon.

### • Course Outcome

- B.Sc. I year:-
- To introduce the basics of mechanics and create problem solving approach in mechanics
- Learn the basics of properties of mater, How solid and Liquid mater behaves and give characteristics in physical changes.

- To Learn the effect of electric field and magnetic field in instrumentation and get theoretical as well as experimental knowledge of it.
- To Learn the fundamental ideas of electrostatics and magneto statics and to apply them to understand general phenomenon.
- To learn the behaviour of electrical circuit with different elements and enhance the capability of analytical study in electrical devices.

#### **B.Sc III Year**

- To know the origin of quantum mechanics and necessity to explain various effects.
- To learn fundamental concepts of quantum mechanics and approach to the complex problems that can be explained.
- To get the qualitative idea of atomic and molecular spectra and related effects like Raman effect and Zeeman effect.
- To understand the phenomenon of Nuclear physics and know the working and theory of nuclear reactor. To know the basics of elementary particles.
- Basics of Solid state physics is to be learned to understand the electrical and magnetic properties of solid materials.
- To learn the basics of solid state devices like diode and transistor and understand their working and applications.
- To learn C programming basics and apply it in general mathematical cases.

#### **B.Sc III Year**

- To know the origin of quantum mechanics and necessity to explain various effects.
- To learn fundamental concepts of quantum mechanics and approach to the complex problems that can be explained.
- To get the qualitative idea of atomic and molecular spectra and related effects like Raman effect and Zeeman effect.
- To understand the phenomenon of Nuclear physics and know the working and theory of nuclear reactor. To know the basics of elementary particles.
- Basics of Solid state physics is to be learned to understand the electrical and magnetic properties of solid materials.
- To learn the basics of solid state devices like diode and transistor and understand their working and applications.
- To learn C programming basics and apply it in general mathematical cases.