

## **Programme Outcomes (POs)**

### **B.Sc. Physics**

**PO-1:** Students will develop a strong foundation in fundamental principles of physics, including mechanics, electromagnetism, quantum physics, thermodynamics, and condensed matter physics.

**PO-2:** They will acquire the ability to think scientifically and use analytical and mathematical tools to model, analyse, and solve complex physical problems.

**PO-3:** Students will gain hands-on experimental skills, including the use of laboratory instruments, measurement techniques, data analysis, and interpretation using scientific methods.

**PO-4:** They will develop research aptitude through project-based learning, enabling them to frame hypotheses, conduct investigations, interpret results, and follow ethical research practices.

**PO-5:** Students will achieve computational proficiency by using programming languages, simulations, and numerical techniques to explore and solve physics-related problems.

**PO-6:** They will strengthen critical thinking and analytical reasoning skills, allowing them to evaluate scientific arguments and draw logical, evidence-based conclusions.

**PO-7:** Students will be able to communicate scientific concepts effectively through written reports, oral presentations, and graphical illustrations suitable for academic and general audiences.

**PO-8:** They will demonstrate professional ethics, scientific integrity, adherence to safety protocols, and responsibility in laboratory and research environments.

**PO-9:** Students will learn to work independently and collaboratively in multidisciplinary teams, integrating physics knowledge with related scientific and technological fields.

**PO-10:** They will understand the societal and environmental relevance of physics, contributing toward sustainable development, renewable energy solutions, and technological advancements that benefit society.