

Course outcomes of Physics

Students graduating with a B.Sc. in Physics would be able to:

- Outline the basic premise of Classical mechanics, demonstrate its inadequacy to deal with microscopic systems, and argue for the need of a new theory for the same.
- Explain the properties of matter such as Elasticity, surface tension and viscosity.
- State and explain the Heat and thermodynamics of gas.
- Outline the Optics and basic phenomenon of light such as interference, diffraction and polarization.
- Explain the vector algebra, electrostatics, Magnetostatics and Transient current.
- Explain the concept of Relativity and quantization, the consequences of quantum mechanical nature, and quantum mechanical description of the structure of atom.
- Discuss the Modern physics and also outline the concept of Nuclear physics.
- Outline the properties of metals and discuss different approaches to the bonding in metals, Semi conductors. Solids and crystal structure.
- Outline the basic premise of Electrodynamics and Electronics.
- Explain Atomic, Molecular Physics and Laser.
- Define and nonconventional energy sources and Optical Fibre.

Scope of Subject:

- Students will acquire expertise in laboratory skills, enabling them to take measurements in a physics laboratory and analyze the measurements to draw valid conclusions.
- Students will be capable of oral and written scientific communication, and will prove that they can think critically and work independently.
- On completion of this course, students will be able to get enough knowledge to excel in educational and in industrial areas.
- Students have teaching options both at high school and elementary level. The current shortage of teachers trained in the physical sciences is likely to continue for several years. So, this is a bright area for them.
- A Physics student can become meteorologist who study of the causes of particular weather conditions; uses computerized and mathematical models designed to make short and long-range forecasts concerning weather and climate patterns.
- Students can also find employment in academic institutions and government research organizations along with in industries such as aerospace, engineering, manufacturing, oil and gas, space exploration and telecommunications.