

DEPARTMENT OF PHYSICS

PROGRAM OUTCOME

The goal of physics is to understand how things work from the first principles. We offer physics courses that are matched to a range of goals that students may have in studying physics -- taking elective courses to broaden one's scientific literacy, satisfying requirements for a major in the sciences or engineering, or working towards a degree in physics or engineering physics. Physics courses reveal the mathematical beauty of the universe at scales ranging from subatomic to cosmological. Studying physics strengthens quantitative reasoning and problem-solving skills that are valuable in areas beyond physics. This subject enlightens a thorough study of different papers like-mathematical physics, mechanics, relativity, electromagnetic, optics, thermodynamics, quantum mechanics, electronics, nuclear physics, solid-state, etc. Trough core education and generic elective subjects from other disciplines.

Physics touches every aspect of our lives. It involves the study of matter, energy, and their interactions. As such, it is one area of science that cuts across all other subjects. Other sciences are reliant on the concepts and techniques developed through physics. Other disciplines — such as chemistry, agriculture, environmental and biological sciences — use the laws of physics to better understand the nature of their studies. Physics focuses on the general nature of the natural world, generally through mathematical analysis.

The Physics of Information Technology explores the familiar devices that we use to collect, transform, transmit, and interact with electronic information. Many such devices operate surprisingly close to very many fundamental physical limits.

PROGRAM-SPECIFIC OUTCOME

.Physics graduates can also complete a teaching qualification to move into a career in teaching, while others begin a Ph.D. to start a career in research science. Academic researcher. A physics degree is a great starting point for a career in Acoustic consultant, Astronomer, Clinical scientist, medical physics, Geophysicist, Higher education lecturer, Metallurgist, Meteorologist, Nanotechnologist, Radiation protection practitioner, Research scientist (physical sciences), Secondary school teacher, Sound engineer, Technical author, etc.

COURSE OUTCOME

- Physics helps us to understand how the world around us works, from can openers, light bulbs, and cell phones to muscles, lungs, and brains; from paints, piccolos, and pirouettes to cameras, cars, and cathedrals; from earthquakes, tsunamis, and hurricanes to quarks, DNA and black holes.
- Physics helps you to understand the world around you, and satisfy your curiosity.
- Studying physics develops your critical thinking and problem-solving skills.
- Physics drives technological advancements, impacting society, the environment, and the economy.