

POs, PSOs and PEOs of PG (M.Sc.-Physics) Two Year Course

Programme Outcomes (POs)

The student will be able to:

- PO-1:** Apply knowledge of Physics to solve the complex scientific problems and become competent professional at global level.
- PO-2:** Identify, formulate and analyse advanced scientific problems on the basis of principles of science
- PO-3:** Design experimental techniques and scientific tools for the extraction of experimental parameters and analysis of scientific-data.
- PO-4:** Apply contextual knowledge to assess societal, health, safety, and cultural issues relevant to the science practices.
- PO-5:** Understand and demonstrate the scientific knowledge in environmental contexts for sustainable development.
- PO-6:** Communicate effectively through report writing, documentation and effective presentations.
- PO-7:** Engage in independent and lifelong learning in the broadest context of science and technological developments.
- PO-8:** Enhance and adopt new skills for future employability in teaching and research through seminar, internship and dissertation.

Program Specific Outcomes (PSOs)

After completion of the course the student will

- PSO-1:** Have fundamental and advanced level knowledge in physics particularly classical mechanics, quantum mechanics, statistical mechanics, nuclear and high energy physics, solid state physics, materials science and electronics.
- PSO-2:** Have fundamental and advanced level knowledge in physics so as to handle the computational tools and Scientific software.
- PSO-3:** Be able to apply experimental expertise in basic as well as advanced areas of physics.

Program Education Objectives (PEOs)

After completion of the course:

- PEO-1:** Postgraduate will have significant prospects in the various fields like academics, industry, research organization, consultancy, defence and entrepreneurial pursuit at national and international level.
- PEO-2:** Postgraduate will achieve peer recognition as an individual or team member having specialized knowledge and expertise to identify, formulate, investigate, analyse and implement on the problems in physical sciences.
- PEO-3:** Postgraduate will have a solid foundation for academic excellence and quality leadership to meet the challenges in interdisciplinary and multi-disciplinary environment.
- PEO-4:** Postgraduate will have ability to adopt, absorb and develop innovative and new technology in physical sciences and related areas through lifelong learning process.
- PEO-5:** Postgraduate will inculcate value system and work ethically in a multidisciplinary environment, to enhance the advancement in physics in general and contribute significantly through their critical thinking and scientific competence.