

DEPARTMENT OF PHYSICS

PO1: Fundamental Physics Knowledge

Students will demonstrate advanced knowledge in fundamental physics concepts, principles, laws, and theories.

PO2: Experimental and Laboratory Skills

Students will excel in experimental and laboratory work, with the ability to design, conduct, and analyze experiments, demonstrating proficiency in data collection and instrumentation.

PO3: Mathematical and Computational Proficiency

Students will possess strong mathematical and computational skills, enabling them to model and solve complex physical problems using mathematical and computational methods.

PO4: Advanced Physics Specializations

Depending on their focus, students will gain expertise in various physics specializations, such as classical mechanics, electromagnetism, thermodynamics, quantum mechanics, and modern physics.

PO5: Interdisciplinary Perspective

Students will recognize the interdisciplinary nature of physics, connecting physics to other scientific fields and real-world applications.

PO6: Scientific Research and Inquiry

Students will engage in scientific research projects, fostering innovative thinking and contributing to advancements in the field of physics.

PO7: Problem Solving and Critical Thinking

Students will excel in problem-solving, applying critical thinking skills to analyze complex physical problems and propose solutions.

PO8: Computational and Theoretical Physics

Students will demonstrate proficiency in theoretical and computational physics, including the use of mathematical models and computer simulations to predict physical phenomena.

PO9: Ethical and Professional Conduct

Students will adhere to the highest ethical standards in their academic work and professional activities, respecting intellectual property rights and the ethical principles within the field of physics.

PO10: Communication and Presentation

Students will communicate complex scientific ideas effectively, both in written and oral formats, with the ability to convey their findings and insights to technical and non-technical audiences.