



INTEGRAL UNIVERSITY, LUCKNOW
DEPARTMENT OF PHYSICS
M. Sc. (Physics)

Program Educational Objectives (PEOs)	<ol style="list-style-type: none"> 1. To demonstrate broad knowledge of science. 2. To develop skills in quantitative modeling of scientific systems. 3. To provide the basic analytical and technical skills to work effectively in the various fields of sciences. 4. To promote analytical skills to solve complex scientific problems.
Program Specific Outcomes (PSOs)	<ol style="list-style-type: none"> 1. To provide an opportunity for the students to explore the contemporary science and its applications in modern technology. 2. The students will realize and develop an understanding of the impact of physics and science on society as well as real-life applications. 3. To introduce advanced techniques and ideas required in developing area of Physics. 4. To enhance student's ability to develop advance mathematical models for physical systems. 5. To prepare the students to take-up career in different industries or to pursue higher studies and multidisciplinary research. 6. The students will attain successful professional careers in industry and academia to become entrepreneurs.
Program Outcomes (POs)	<ol style="list-style-type: none"> 1. Critical thinking: In-depth knowledge of the basic and applied areas of sciences. Capability to demonstrate knowledge and understanding of major physics concepts, theoretical principles and experimental findings. 2. Effective Communication: Communicate effectively on complex scientific activities with the concerned community in particular and with society in general, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions. 3. Social Interaction: Comprehend to apply contextual multi-disciplinary knowledge to assess societal, health, safety, and cultural issues relevant to the science practices. 4. Effective Citizenship: Imbibe moral and social values in personal and social life leading to highly cultured and civilized personality. 5. Ethics: Students will be able to recognize the ethical component of complex situations. Acquired with an awareness of work ethics and ethical issues in scientific research as well as plagiarism policies. 6. Environment and Sustainability: Understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of science and need for sustainable development. 7. Self-directed and Lifelong learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of scientific changes.