

### Unified PLOs for B.Sc. in Physics Program

Program Learning Outcomes (PLO's)	
<b>Knowledge and Understanding</b>	
<b>K1</b>	Demonstrate a deep understanding of fundamental physical principles, including classical mechanics, thermodynamics, electromagnetism, optics, quantum mechanics, modern physics, Nuclear Physics, and renewable energy, etc...
<b>K2</b>	Mention the importance of modern scientific theories and techniques in physics, their inherent relationship, and their mathematical formulation
<b>K3</b>	Identify the scientific method to investigate physical phenomena.
<b>Skills</b>	
<b>S1</b>	Apply advanced mathematical and practical skills in physics to analyze, evaluate and interpret scientific and laboratory data to solve physics problems for sustainable use of energy and materials.
<b>S2</b>	Apply the theories and principles of physics in solving and analyzing problems, formulating hypotheses, and designing and conducting experiments, related to physical phenomena and relating fields
<b>S3</b>	Communicate and work effectively in groups as well as individually to develop professional skills, such as research proposal writing, grant applications, and scientific presentations.
<b>S4</b>	Employing digital technologies with optimal efficiency to develop physics problem-solving skills.
<b>Values, Autonomy, and Responsibility</b>	
<b>V1</b>	Be aware of professional and ethical responsibilities
<b>V2</b>	Enhancing a sense of community and belonging by striving to achieve excellence in teaching and performance-based research
<b>V3</b>	Establishing effective partnerships with all relevant segments of society.