

**DEPARTMENT OF PHYSICS**

**Maharaja Ranjit Singh Punjab Technical University, Bathinda**

**PROGRAMME OUTCOMES**

**(B. Sc. (Hons.) PHYSICS)**



**MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY**

*(A State University Estab. by Govt. of Punjab vide Punjab Act No. 5 of 2015 and Approved u/s 2(f) & 12 (B) of UGC; Member AIU)*

**Dabwali Road, Bathinda-151001 (Punjab), India**

## **PROGRAMME OUTCOMES (POs)**

- 1. Scientific Knowledge:** Apply knowledge of sciences to go for higher studies in diverse fields. Understanding the basic concepts of Physics particularly concepts in Mechanics, Electricity and Magnetism, Waves and Optics, Quantum Mechanics, Thermal Physics, Electronics, Statistical Mechanics, Nuclear and Particle Physics and Solid State Physics to appreciate the beauty in nature and happenings which follow from the set of fundamental laws of Physics.
- 2. Problem Solving Skill Ability:** Identify and solve scientific problems using sense of reasoning and scientific acumen. Understanding the different concepts of Mathematical Physics, Numerical Methods and Computational Languages to handle different theoretical and experimental problems in Physics.
- 3. Learning from Experiments:** Learn to carry out basic experiments and their applications in different areas of Physics such as Mechanics, Electricity and Magnetism, Waves and Optics, Quantum Mechanics, Thermal Physics, Electronics, Statistical Mechanics, Nuclear and Particle Physics and Solid State Physics.
- 4. Skill Enhancement:** Learn the concepts and fundamentals of Mathematics and Chemistry for the overall knowledge, higher studies and job prospects.
- 5. Communication:** To enhance soft skill and overall personality development in students and to inculcate the spirit of Human values and Professional Ethics.
- 6. Design/Development of Solution:** To inculcate and develop scientific aptitude and the ability to think abstractly in the student.
- 7. Science and Society:** Application of scientific principles for better understanding of natural phenomenon.
- 8. Individual and Teamwork:** Perform as an individual and as a member or leader in diverse teams in multidisciplinary activities by involving the students in conducting Department level or University level activities.

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