

**DEPARTMENT OF PHYSICS**

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

**PROGRAMME OUTCOMES**

**(M. Sc. 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 become competent professionals. Understanding the basic concepts of Physics in field of Classical Mechanics, Quantum Mechanics, Electrodynamics, Statistical Mechanics, Nuclear Physics, Particle Physics, Condensed Matter Physics, Atomic and Molecular Physics and Electronics to learn the diverse phenomena observed in nature follow from set of fundamental laws.
- 2. Problem Solving Skill Ability:** Understanding and making use of the tools of Mathematical Physics, Numerical Methods, Computational Languages and Simulation Techniques to handle different theoretical and experimental problems in Physics.
- 3. Learning from Experiments:** To Understand and carry out experiments in basic as well as certain advanced areas of Physics such as Nuclear Physics, Condensed Matter Physics, Advanced Optics, Electronics and Lasers and to look for their applications in different area.
- 4. Skill Enhancement:** A research-oriented learning that develops analytical and integrative problem-solving approaches and presentation skills.
- 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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