

## **PO and PSO of PG Program**

### **PROGRAM OUTCOMES AND PROGRAM SPECIFIC**

#### **OUTCOMES**

[PO. 1] Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

[PO. 2] Effective Communication: Speak, read, write, and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media, science and technology.

[PO. 3] Problem analysis: Identify, formulate, research literature, and analyze complex physical problems reaching substantiated conclusions using first principles of physical and mathematical sciences.

[PO. 4] Design/development of solutions: Design solutions for complex physical problems and design experiments that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

[PO. 5] Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

[PO. 6] Project management and finance: Demonstrate knowledge and understanding of the scientific principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

[PO. 7] Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context scientific changes.

After completion of the course, the student will be able to:

[PSO.1] Apply theoretical knowledge of principles and concepts of Physics to practical problems.

[PSO. 2] Demonstrate the ability to plan, undertake, and report on a programme of original work, including the planning and execution of experiments, the analysis and interpretation of experimental results.

[PSO. 3] Assess the errors involved in an experimental work and make recommendations based on the results in an effective manner.