

| Course Code | Course Name | Credits |
|-------------|-------------|---------|
| 26PH251 | PROJECT | 02 |

Course Description

This course enables students to undertake a project based on physics concepts, experimental techniques, or interdisciplinary applications. It fosters innovation, research skills, and problem-solving abilities.

Course Objectives

- To develop research and analytical skills
- To encourage innovation and independent learning
- To apply theoretical concepts in practical problems
- To enhance documentation and presentation skills

Skill Enhancement Outcomes

Upon successful completion of this course, the learner will be able to:

- Identify and formulate a research/problem statement
- Design and execute experiments or simulations
- Analyze and interpret results scientifically
- Prepare technical reports and presentations
- Demonstrate creativity and critical thinking

Course Content and Execution

- Selection of project topic (experimental/theoretical/computational)
- Literature survey and problem identification
- Project planning and methodology design
- Experimental setup / simulation / model development
- Data collection and analysis
- Preparation of project report (**the report should consist of 20 to 30 pages**)
- Demonstration, presentation, and viva

Learning Outcome

Students will gain experience in research methodology, problem-solving, and technical communication, preparing them for higher studies and professional careers.

