

# NEHRU MEMORIAL COLLEGE

(AUTONOMOUS)

NATIONALLY ACCREDITED WITH "A" GRADE BY NAAC

PUTHANAMPATTI, TRICHY- 621007



**DEPARTMENT OF PHYSICS**

**PG**

**PROGRAMME SPECIFIC OUTCOME (PSO)**

## **PSO : 1**

### **Knowledge**

- Has substantial knowledge in physics, basic knowledge in mathematics, and knowledge in supported fields like computer science.
- Has some research experience within a specific field of physics, through a supervised project (the Master Dissertation).
- Has advanced knowledge in some areas in physics.
- It is familiar with contemporary research within various fields of physics.

## **PSO : 2**

### **Skills**

- Has the background and experience required to model, analyse, and solve advanced problems in physics.
- It is able to apply advanced theoretical and/or experimental methods, including the use of numerical methods and simulations.
- Can combine and use knowledge from several disciplines.
- Can critically and independently assess and evaluate research methods and results.
- Has the ability to develop and renew scientific competence -- independently, via courses or through PhD studies in physics or related disciplines.
- It is able to enter new problem areas that require an analytic and innovative approach.
- Can disseminate subject matter and results to both specialists and a broader audience.

**PSO : 3**

**General competence**

- Understands the role of physics in society and has the background to consider ethical problems.
- Knows the historical development of physics, its possibilities and limitations, and understands the value of lifelong learning.
- Is able to gather, assess, and make use of new information.
- Has the ability to successfully carry out advanced tasks and projects, both independently and in collaboration with others, and also across disciplines.
- Has an adequate background for pursuing pedagogic education.
- Has an international perspective on her/his discipline.