

Programme Code

PHYS1001

Programme Description

This is an introductory physics course for the students who want to have an overview in physics at the university level. It covers mechanics, gravitation, oscillations, waves and sound, heat and thermodynamics, electricity and magnetism, and physical optics. Conceptual ideas in physics are emphasized. The overall mathematical treatment is moderate, and elementary calculus will be deployed for selected topics.

Learning Outcomes

- Describe and explain the fundamental physical principles
- Apply these principles, together with logical and mathematical reasoning, to situations of the physical world
- Analyse and solve problems with the aids of mathematics
- Acquire and interpret experimental data to examine the physical laws

Programme Schedule

Mondays to Fridays (14:30-17:30)

Study Load

33 hours	- Lectures
9 hours	- Tutorials
6 hours	- Laboratory work
72 hours	- Reading/Self study

Assessment

1 two-hour written examination	(50%)
Laboratory reports	(15%)
In-class assessments	(35%)