

AP4006

## Physics for Engineering



**Course Aim** To introduce students to the fundamentals of physics required for engineering.

**Short Title**

Faculty Humanities

Polytechnic Level

Credits 15

Pre-requisites None

Co-requisites Nil

Anti-requisites ENC3003

**Version 1**

Effective From February 1, 2014

Indicative NQF Level 4

Student Contact hrs 90

Self-directed hrs 60

Other directed hrs 0

Total learning hrs 150

**Learning Outcomes**

On successful completion of this course, students will be able to:

- 1 Apply basic laws of physics in the areas of Classical Mechanics, Vibrations and Waves, Fluids, Thermal Physics and Electricity
- 2 Obtain and use experimental and theoretical information in solving physics problems
- 3 Carry out basic experiments that demonstrate the fundamental concepts of physics

**NQF Sub-strand**

Practical  
Application of  
knowledge

Theoretical  
Understanding

Practical  
Application of  
knowledge