
SUBJECT:

PHYSICS

STATUS: Authority Subject

CODE: PHY

COST: TBA

COURSE OVERVIEW:

Human beings have always attempted to understand and explain the behaviour of the universe. Physics is concerned with the discovery, understanding and application of the laws of nature. Physics has many real world applications.

The general objectives are to develop:

1. Knowledge and Conceptual Understanding
2. Investigative Processes
3. Evaluating and Concluding
4. Attitudes and Values

COURSE STRUCTURE

Framed around forces, energy and motion:

- Measurement
- Kinematics and Dynamics
- Motion
- Waves
- Optics
- Energy and momentum
- Electricity
- Magnetism
- Electromagnetism
- Thermal physics
- Atomic and nuclear physics
- Electricity and electronics

ASSESSMENT TECHNIQUES:

1. Extended Experimental Investigations
2. Extended Response Tasks
3. Written Tasks

SPECIAL REQUIREMENTS:

Students entering this course would have achieved a minimum of C in Extension Science and Prep Mathematics B in Year 10.

Students are expected to have a graphics calculator for their personal use throughout the year.

Excursions will be part of this course, and hence incur associated costs.

