Subject Outline:
Physics is a pre-requisite subject for engineering and many science courses in most tertiary institutions. It is also studied in the first year of medical and pharmacy courses and in agriculture and physiotherapy courses. It should be regarded as a primary choice for students who anticipate entering these courses. Topics found in Physics courses include: measurement; forces; motion; energy; heat; waves; optics; electricity; magnetism; atomic and nuclear physics.

Contributes to OP: Yes

Assessment Outline:
Each student will be expected to develop manipulative skills in practical work and to learn the correct care and operation of precision equipment as well as methods of observation and measurement. Students will be assessed through a range of techniques such as extended experimental investigations, written assessments and research assignments.

Career Pathways:
A study of Physics is essential for an understanding of modern technology and many of the older innovations that we now regard as part of life. People responsible for technological advances in the future will almost certainly have had a good grounding in physics while they were students. Physics may lead to Tertiary Studies in Science Degrees, Engineering and Applied Sciences.

Potential Activities:
Students will be involved in a range of learning activities in their course of study. These could include: lectures/demonstrations; problem solving sessions; laboratory work and computer simulations; videos; report writing using data obtained by experimentation. A significant part of the study of Physics will be spent solving physics problems using mathematical techniques.

Costs:
The Text hire Scheme provides resources for the course. Additional costs incurred in Physics are related to the following excursions - Dreamworld - Once over 2 Year course - $75.00 and approximately $10.00 to $20.00 each for one or two excursions each year (costs and the number of excursions vary depending on the availability of excursions and the nature of these).

Student Requirements:
Students must have achieved a minimum B in Year 10 Physics, Enrichment maths and core English. Students choosing Physics should be also considering Maths B. As practical work is an important part of this course, students will be expected to regularly complete laboratory practical work, record and analyse results of this work and present short scientific reports. It is expected that students will average 2½-3hours homework each week for this subject.

Vocational Relevance:
Physics is for students who intend to enter secondary science teaching, other medical/health care courses or various apprenticeships (especially electrical apprenticeships).