



Electrical Energy Systems

Description

For students with an interest in electronics, programming and robotics, this is a course that is tailored for you. Although experience from year 9 Systems is preferred, it is not necessary. This unit will introduce the student to basic electronics, but more importantly it focuses on the world of programmable micro-controllers in which the aim is to build a mechanical/electrical closed loop system. Closed loop means the project must react to a stimulus, and previous projects have included bots that detect an obstacle and avoid it by deciding the best path to travel. This subject has a cost associated with it and depends on the complexity and type of micro-controller used.

Unit Topics

- Electronics*
- Programming*
- Micro-controllers*

Skill Development

Soldering, Programming, Fabrication and understanding Mechanical and Electrical Systems.

Possible Assessment Tasks

Folio, Ongoing Training and the Fabrication of a Closed Loop System.

Career Options

Robotics