

Systems Technology - Robotics and Software - Year 10

In this subject allows students to advance their knowledge and skills of software, electrical, and mechanical systems. This unit will provide students with the foundation knowledge to ensure success in VCE subjects Systems Engineering and Computing as well as allowing students to undertake in depth study of a software, mechanical, or electronic system of their choice, which may include robotic systems or software systems. Development of high level ICT capabilities and team work skills are a priority of the learning within this unit, along with the development of critical thinking skills, and the understanding and implementation of the 'Design, Creation, and Evaluation' cycle. Students will engage in set coursework as well as complete an elective major project. Project work may include: The creation of a robot or other mechatronic system, the creation of a computer game, the creation of a web based or computer based program.

Key workplace skills developed:

- Ability to be productive in a busy team environment
- Ability troubleshoot, problem-solve and find creative solutions to complex problems
- Ability to analyse and evaluate specific materials, products, and processes
- Ability to analyse and evaluate the specific needs of a client
- Identification and evaluation of OH&S concerns relevant to specific processes

