

## **Systems & Engineering (Integrated Systems):**

### **Unit 3: Systems engineering and energy**

This unit focuses on the combining of mechanical and electrotech systems to form a controlled integrated technological system. This includes knowledge of sources and types of energy that enable these systems to operate.

Students study the engineering principles required to explain and understand the operation and control of integrated systems. They then apply this knowledge to plan and commence work on the production of a substantial controlled integrated system. Students are also required to research and produce technical reports.

### **Unit 4: Integrated and controlled systems engineering**

This unit combines the contemporary focus of systems control and provides opportunities for students to build on their understanding and apply it to practical solutions through the construction of controlled integrated systems. In recent times, commercial integrated systems have increased function, control and internal monitoring subsystems within them.

