HEAD OF DEPARTMENT: Mr Alan Pacey

Subject Outline:

“Modern technological societies are characterised by the rapid expansion of knowledge and the ease of access to, and exchange of, information in a digital format. Active and informed participation in this world requires citizens to be adaptable and self-directed users of information and communication technology. They need to work analytically and creatively, behave ethically, be socially responsible and work collaboratively” (QSA, 2011).

Throughout this course of study students will be given the opportunity to explore programming, implement design processes, respond to real-life problems in a simulated robotics environment and produce a movie using film and sound software.

Assessment Outline:

- Theory test(s)
- Practical test(s)
- Design journal
- Multimodal project
- Practical exams
- Assignments
- Non-written presentations
- Group task – Business Venture

Career Pathways: Senior School Pathway (Cert 2 IT / Information Processing Technology)

Potential Activities: Robotics / Multimedia / Programming

Student Requirements:

There are no prerequisite skills required to complete this course however an interest in ICT is highly recommended.

Semester 1

ICT 201 Introduction to Programming – students are introduced to programming using the software Scratch.

ICT 202 Introduction to Robotics – students explore the theory behind robotics and commence basic programming.

Semester 2

ICT 203 Robotics in Operation – students participate in a series of challenges that enhance design and programming skills in robotics.

ICT 204 Multimedia Fundamentals – students learn the fundamentals of a range of multimedia software to showcase the design and programming outcomes of a robotics challenge.