Subject name	**Digital Technologies**
Subject code	DIG
Additional subject cost	Nil
Prerequisites	Nil

Course overview

- to develop students' knowledge, understanding and skills in computational thinking and engaging students in more specialised programs in preparation for their learning in senior secondary years
- students will learn to automate tasks and analyse and manipulate data, to understand what happens when instructions do not match their intention, seeking ways to correct their display of information
- students consider how human interaction with networked systems introduces complexities surrounding access to, and the security and privacy of, data of various types
- students interrogate security practices and techniques used to compress data, and learn about the importance of separating content, presentation and behavioural elements for data integrity and maintenance purposes

Course outline

Students use a range of generic and innovative software to understand computer logic, digital elements, trends in technology, audience needs, ethics, copyright and ownership. Students focus on coding, learning a range of languages including JavaScript, HTML, and Python

Topic covered: algorithms, programming/coding, web design, information systems, data analysis

Assessment

Projects and responses using computers and software. This includes word processing, PowerPoint presentations, web pages, game software etc. Most computer tasks will be constructed so that they are completed in class. Projects could include individual or group work, presentations, peer assessment of presentations, diagrams, responses to stimuli and presentation of printed and digital documents. An in-class portfolio of tasks completed is also used to determine overall standard of achievement.

Subject requirements

A USB of at least 16GB, display folder with plastic pockets and a pair of earphones/ headphones are required.

BYOD program

Please refer to the 'Bring Your Own Device (BYOD) booklet for the minimum specifications required before purchasing a device. Minimum of Intel 5 processor.

Career opportunities

Leads to further study in the subjects of Digital Solutions and Senior ICT.