

Subject name	Digital Solutions
Subject code	TDS (General subject)
Additional Subject fee	Additional printing money may be required if students print any drafts of completed exercises
Prerequisites	Minimum C Maths and C English

Course Overview

- To introduce students to Year 11 standards of work and assessment in senior Digital Solutions.
- To introduce students to elementary programming skills, software algorithms, computer languages and user interfaces through generating digital solutions to problems.
- To introduce the processes involved in problem-based learning that enables them to explore and develop ideas, generate digital solutions, and evaluate impacts, components and solutions to enhance their world and benefit society.
- To generate digital solutions, students analyse problems and apply computational, design and systems thinking processes to real-world problems and digital realms.
- Exploration of hardware and software development environments, code libraries or specific instructions provided through programming.

Course Outline

- Creating digital solutions with code, algorithms, computer languages and user interfaces
- Digital innovation – including hardware and software development environments, code
- Application and data solutions to real world problems using computational, design and systems thinking processes
- Digital and ethical impacts on society – personal, local and global impact

Assessment may consist of:

- Investigation – technical proposals: multimodal presentation 9 – 11 minutes
- Project – project folio of work: 8 – 10 A3 pages; 2 – 4 minute demonstration of functionality of user interface, data and coded components of the digital solution by video recording; 4 – 6 A4 pages of code with annotations
- Examinations – 2 hours 15 minutes including short-response answers and extended response

Subject Requirements

A laptop that is i5 Intel processing speed or faster.
16GB USB (or larger) and earphones.

Career Opportunities

Digital Solutions is a General subject suited to students who are interested in pathways beyond school that lead to tertiary studies, vocational education or work.

A course of study in Digital Solutions can establish a basis for further education and employment in the fields of science, technologies, engineering and mathematics.