
INFORMATION PROCESSING & TECHNOLOGY

*Mr Nev Glynn***RATIONALE**

Information Technology refers to the creation, manipulation, storage, retrieval and communication of information and to the range of technological devices and systems used to perform these functions.

The Information Processing & Technology course emphasises problem identification and solution rather than the use of specific applications. It is an intellectual discipline that involves a study of information and intelligent systems, software and system engineering, human-computer interaction, and the social and ethical issues associated with the use of information technology.

In studying Information Processing & Technology, students investigate the nature of, and methods associated with, information processing and related technologies, using a computer as the primary tool. Such a study helps students cope with the rapid rate of change associated with information technology and to appreciate its impact on society and the individual. Students will be exposed to a variety of intellectual challenges involving distinctive approaches to problem solving, communication and a range of associated practical skills.

The course touches many aspects of human life and finds itself drawing upon, and being applied to, diverse fields of study. Consequently, the study of this course will contribute in a significant way to the general education of students, whether or not they intend proceeding to further studies or employment specific to information technology. This course should be of particular interest to those students contemplating studying Engineering at a tertiary level as all engineering students at university are expected to study some Software Engineering in their degree.

The Year 10 Information Processing & Technology course will concentrate on the discipline of computer programming. This will be done through the design and implementation of computer game using Game Maker.

ASSESSMENT PROGRAM

As this is a practical course the majority of the assessment will be project based, but examinations will also be used to assess knowledge comprehension.

ENTRY REQUIREMENTS

There is no significant overlap with material studied in any Year 9 courses and therefore no entry requirements.

LINKS WITH OTHER INFORMATION TECHNOLOGY SUBJECTS

Students are permitted to study both Information Technology Systems (ITS) and Information Processing & Technology (IPT) at the same time as the ITS course does not cover significant aspects of the IPT course but rather complements it.