

## Information Processes and Technology

2 units for each of Preliminary and HSC  
Board Developed Course  
Exclusions: Computing Applications CEC

### Course Description:

The information processes and technology (IPT) Year 11 and 12 course, teaches students about information-based systems. It covers the processes of collecting, organising, analysing, storing and retrieving, processing, transmitting and receiving, and displaying, as well as the technologies that support them.

In the higher school certificate (HSC) course the students will learn about project management, information systems and databases, communication systems, multimedia systems, and transaction processing systems. Students will complete a major HSC project that will assess their practical and theoretical knowledge.

The aim of this course is to enable students to become confident, competent, discriminating and ethical users of hardware and software and to appreciate the effect of information systems on society. With this background, students will be well placed to adapt to new technologies as they emerge - a 21st Century Skill.

### Main topics covered:

#### Preliminary Course

- Introduction to Information Skills and Systems (20%)
- Tools for Information Processes (50%)
- Developing Information Systems (30%)

#### HSC Course

- Project Management (20%)
- Information Systems and Databases (20%)
- Communication Systems (20%)
- Option Strands (40%) – Students will select TWO of the following options: Transaction Processing Systems; Decision Support Systems; Automated Manufacturing Systems; Multimedia Systems.

### Particular Course Requirements:

There is no prerequisite study for the 2 unit Preliminary course. Completion of the 2-unit Preliminary course is a prerequisite to the study of the 2-unit HSC course. The percentage values in each course refer to indicative course time. A minimum of 40% course time is to be devoted to the integration of content into project work in both Preliminary and HSC courses. It is also expected that a significant proportion of time be devoted to integrated practical activities.