

# St George College Senior Secondary Handbook

## INFORMATION TECHNOLOGY

**LEVEL:** Stage 2

### PROGRAM AIMS:

At the end of this program students should be able to:

- demonstrate an understanding of software, hardware, the processing of information, and the flow of data through an information system.
- communicate an understanding of information technology terminology, concepts and processes to technical and non-technical audiences.
- use information technology software and hardware tools to design, develop, and evaluate solutions to problems, using problem solving techniques of a system development life cycle.
- apply information technology and skills to create a product or system
- use information technology to create an outcome that satisfies the needs of a given client
- make informed judgments about the current and potential impacts of information technology systems on a given client or users of information technology by discussing issues related to the use of these systems.

### TOPICS:

Four topics are to be covered in a year. These will be

1. Information Systems
2. Relational Databases
3. Interactive Media
4. Web Applications

A more detailed explanation is available on the next page.

### ASSESSMENT:

1. **Skills Tasks (30%)** This will be two tasks including a practical test based on skills or demonstration of skills within a larger task
2. **Course work (20%)** This will be two tasks: a test, case-study, or research assignment
3. **Practical (20%)** This requires students to undertake a task based on the systems development life cycle, and submit a completed task and report that documents the solution.
4. **Individual Project (30%)** This assessment is designed to assess all six learning outcomes. Students are required to design and develop an assessment task based on a systems development life cycle. They are required to design and develop a prototype solution for a client-based problem or situation, and submit this prototype with a report that documents how they applied the stages of the life cycle to develop their solution.

**All assessment will be externally moderated.**