St George College Senior Secondary Handbook

TECHNOLOGY STUDIES

LEVEL: Stage 2

CORE TEXTS: To be advised

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

- communicate an understanding of information technology terminology, concepts, and issues.
- explain how information technology software and hardware interact to process data into information.
- describe the composition and function of information systems, including types of data used, their processing and flow.
- use information technology software and hardware tools to design, develop, and evaluate solutions to problems, using the problem-solving technique of a systems development life cycle.
- discuss concepts related to the function and structure of databases.
- apply concepts and processes of modular programming to a given context.
- explain the function of telecommunications and computer networks and related issues.
- make informed judgments about the current and potential impacts of information technology systems on the individual, business, industry, and communities by discussing issues related to the use of these systems.

CONTENT:
All topics l are compulsory. For detail on topics refer to the next page.

1. Information Systems and Relational Databases
2. Computer systems
3. Networks and Communication
4. Programming

ASSESSMENT:

1. Examination (40%)
This will be a 3-hour external examination consisting of Part A (short answers) and Part B (extended responses)

2. Individual Project (30 %) Externally moderated
Each student should design an individual relational database, either for a real client or a devised situation, by using and documenting the six stages of the systems development life cycle. This is completed over an extended period.

3. School Assessments: (30 %) Statistically moderated by the examination.

School assessment is designed to assess all learning outcomes. It will include practical component of programming and relational databases, case studies of information systems found in the community, essays on issues, research projects, and formal tests.
Homework

HOMEWORK & STUDY REQUIREMENTS:
The student should expect to spend approximately 2 hours per week. Use of a computer at home would be an advantage.