

# INFORMATION PROCESSING AND TECHNOLOGY

(AUTHORITY SUBJECT)

<b>SUBJECT:</b> IPT	<b>QCE STATUS:</b> CORE <b>QSA STATUS:</b> Authority
<b>DEPARTMENT:</b> ENTERPRISE & TECHNOLOGY	<b>QCE POSSIBLE CREDIT POINTS:</b> 4 (for 4 semesters with Sound Achievement at exit)
<b>SUBJECT LEVY:</b> N/A	<b>Certificate Name:</b> N/A

## PREREQUISITE SUBJECTS

Prerequisites include a Sound Achievement in Year 10 English and Maths. Year 10 Computer Education (Robotics) would be an advantage.

## RATIONALE

Information Processing and Technology is designed to teach students to solve complex problems using computers and technology. It teaches how to develop computer programs and how to structure and design data systems. Finally, it focuses on social and ethical issues around computer usage.

## COURSE AIMS

Students will develop:

- A greater understanding of computers and technology and how systems are designed to solve problems
- Research, analysis and evaluation skills
- Programming skills

## COURSE OUTLINE

Semester 1 Programming Applications in Visual Basic. Software Design and Development.	Semester 2 Information Data Systems Design and Development.
Semester 3 Website Design and Implementation with Dynamic Content.	Semester 4 Designing and Implementing a Client Website.

## ASSESSMENT

A variety of assessment formats will be used including:

- Extended Response Assessment (Essay).
- Major and Minor Project Assessment.
- Supervised Written Assessment (Exam).

## ESSENTIAL EQUIPMENT

This includes access to a computer at home and the internet.

## CAREER OPTIONS/FURTHER STUDY

- Application programming
- Website development
- Systems and Network programming
- Games Development

This subject will benefit any student intending to pursue a professional career since knowledge of Information Technology is applicable in virtually all contexts.