**JAMES RUSE AGRICULTURAL HIGH SCHOOL: TAS FACULTY**

HIGHER SCHOOL CERTIFICATE IPT | **Course Outline**

**Information Processes & Technology:** Accelerated 2 Unit HSC Certificate Course

The *Information Processes & Technology* course is designed to develop students into confident, competent and discriminating users of information processes and information technology who appreciate the nature of information, its ethical use and its impact on many aspects of life.

| **OBJECTIVES**<br>Students will develop: | **HSC SYLLABUS OUTCOMES**<br>A student: |
|---|---|
| Knowledge and understanding of the nature and function of information systems | H1.1 applies and explains an understanding of the nature and function of information technologies to a specific practical situation<br>H1.2 explains and justifies the way in which information systems relate to information processes in a specific context |
| Knowledge and understanding of interrelationships among information processes | H2.1 analyses & describes a system in terms of the information processes involved<br>H2.2 develops and explains solutions for an identified need which address all of the information processes |
| An understanding and appreciation of social and ethical issues pertaining to information systems, technologies & processes | H3.1 evaluates and discusses the effect of information systems on the individual, society and the environment<br>H3.2 demonstrates and explains ethical practice in the use of information systems, technologies and processes |
| An understanding and appreciation of the emerging nature of information systems, technologies and processes within a historical context | H4.1 proposes and justifies ways in which information systems will meet emerging needs |
| Skills in the discriminatory selection and ethical use of appropriate resources and tools to support information systems | H5.1 justifies the selection and use of appropriate resources and tools to effectively develop and manage projects<br>H5.2 assesses the ethical implications of selecting and using specific resources and tools, recommends and justifies the choices |
| Skills & techniques to creatively & methodically plan, design & implement I.S. to address needs | H6.1 analyses situations, identifies needs, proposes and then develops solutions<br>H6.2 selects, justifies and applies methodical approaches to planning, designing or implementing solutions |
| Skills in management, communication and teamwork in relation to individual and group activities | H6.1 implements and explains effective management techniques<br>H6.2 uses methods to thoroughly document the development of individual and team projects |

# Task Descriptions

This section briefly outlines each internal school assessment undertaken by students throughout the course.

### Task 1: Written Exam

This examination will be scheduled according to the assessment timetable. It assesses the participant's knowledge and understanding of course concepts, as well as the level at which they can achieve the course outcomes. The content for this exam may be drawn from the following topics:

- Project Management
- Information Systems and Databases

### Task 2: Class Activities

Participants will demonstrate their understanding of information processes and technology through a series of brief assessment tasks held during class time. These are intended to provide participants with the opportunity to articulate the knowledge they have developed in a wide variety of contexts and methods. These may include:

- Topic quizzes
- Concise articles and essays
- Oral presentations
- Class debates

### Task 3: Research Task

This assessment will take place in class time under exam conditions. Participants will be required to demonstrate their knowledge and understanding of course concept, with the aid of pre-prepared texts, written resources and research materials that they may refer to during the course of the task. The content for this task may be drawn from the following topics:

- Information Systems and Databases
- Communications Systems
- Multimedia

**CONTINUED OVERLEAF »**

## Task 4: Major Project

This project requires participants to independently develop and implement an information system in response to a given problem scenario. The information system should centre upon an online multimedia product. The participant must integrate explicit project management techniques into their operational approach to this task and hence demonstrate the ability to balance available resources to create a high-quality project in the given time.

Participants must submit several stages of supporting documentation and substantial prototypes for their information system in the lead-up to the system's final delivery.

The final project submission may be assessed according to:

- Scope and quality of the completed product
- Depth and clarity of project documentation
- Oral presentation

## Task 5: Trial HSC Exam

This examination will be scheduled according to the assessment timetable. It assesses the participant's knowledge and understanding of course concepts, as well as the level at which they can achieve the course outcomes. The content for this exam may be drawn from the following topics:

- Information Systems and Databases
- Communications Systems
- Multimedia
- Decision Support Systems

# Formal Assessment Tasks & Syllabus Weightings

| Component | Task 1<br>Written Exam<br>T4W7, 2010 | Task 2<br>Class Activities<br>Through T1, 2011 | Task 3<br>Research Task<br>T2W8, 2011 | Task 4<br>Major Project<br>Through T2, 2011 | Task 5<br>Trial HSC Exam<br>T3W3, 2011 | Weighting<br>PER COMPONENT |
|---|---|---|---|---|---|---|
| Project Mgmt | 5 | | | 15 | | 20 |
| Databases | 5 | 5 | 5 | | 5 | 20 |
| Communications | | 10 | 5 | | 5 | 20 |
| Option Strands | | | 5 | 10 | 25 | 40 |
| Weighting<br>PER ASSESSMENT | 10 | 15 | 15 | 25 | 35 | 100 |
| Course Outcomes | H1.1, H2.1, H3.1, H5.1, H6.2, H7.1 | H1.1, H1.2, H2.1, H2.2, H3.1, H4.1 | H1.1, H1.2, H2.1, H2.2, H3.1, H4.1, H6.1 | H1.1, H2.2, H3.2, H5.1, H6.2, H7.1, H7.2 | H1.1, H1.2, H2.1, H2.2, H3.1, H3.2, H4.1, H5.1, H5.2, H6.1, H6.2, H7.2 | |