Information Processes and Technology is the study of computer-based information systems. It focuses on information processes performed by these systems and the information technology that allows them to take place. Social, ethical and non-computer procedures resulting from the processes are considered. Different types of information systems are studied. Through project work, students will create their own information system to meet an identified need.

MAIN TOPIC COVERED

HSC Course

Project Management (20%)
- Techniques for managing a project
- Understanding the problem
- Planning
- Design solutions
- Implementing
- Testing, evaluating and maintaining

Information Systems and Databases (20%)
- Information Systems
- Database information systems
- Organisation
- Storage and retrieval
- Other information processes
- Issues related to information systems

Communication Systems (20%)
- Characteristics of communication systems
- Examples of communication systems
- Transmitting and receiving in communication systems
- Other information processes in communication systems
- Managing communication systems
- Issues related to communication systems

Option Strands (40%)

*Students will select two of the following options:*
- Transaction processing systems
- Decision support systems
- Automated manufacturing systems
- Multimedia systems

SYLLABUS OUTCOMES

H1.1 Applies and explains an understanding of the nature and function of information technologies to a specific practical situation
H1.2 Explains and justifies the way in which information systems relate to information processes in a specific context
H2.1 Analyses and describes a system in terms of the information processes involved
H2.2 Develops and explains solutions for an identified need which address all of the information processes
H3.1 Evaluates and discusses the effect of information systems on the individual, society and the environment
H3.2 Demonstrates and explains ethical practice in the use of information systems, technologies and processes
H4.1 Proposes and justifies ways in which information systems will meet emerging needs
H5.1 Justifies the selection and use of appropriate resources and tools to effectively develop and manage projects.

H5.2 Assesses the ethical implications of selecting and using specific resources and tools, recommends and justifies the choices.

H6.1 Analyses situations, identifies needs, proposes and then develops solutions.

H6.2 Selects, justifies and applies methodical approaches to planning, designing or implementing solutions.

H7.1 Implements and explains effective management techniques.

H7.2 Uses methods to thoroughly document the development of individual and team projects.

**BOSTES Assessment Information**

<table>
<thead>
<tr>
<th>External examination</th>
<th>Marks</th>
<th>Internal assessment</th>
<th>Weighting</th>
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<tr>
<td>Section I – Core Objective response questions</td>
<td>20</td>
<td>A. Project Management</td>
<td>20%</td>
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<td>Section II – Core Short-answer questions</td>
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<td>B. Information Systems and Databases</td>
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<td>Section III – Options Candidates answer two questions on the options they have studied</td>
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<td>C. Communication Systems, D. Option Strands</td>
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<td>TOTAL MARKS</td>
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**School Based Evidence of Learning ~ Formal Task Schedule**

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<tr>
<th>Task No.</th>
<th>Targeted Outcomes</th>
<th>Learning Context</th>
<th>Task</th>
<th>Date Due</th>
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<td>Marks</td>
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<tr>
<td>A</td>
<td>B</td>
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<td>D</td>
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<td>Database Task</td>
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<td>Information systems and data bases – Project management</td>
<td>Mid-Course Test</td>
<td>T1 Wk 3</td>
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<td>H – 6.1, 7.1, 7.2</td>
<td>Project management</td>
<td>Major Project</td>
<td>T1 Wk 8</td>
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<td>4</td>
<td>H – 1.1, 1.2, 2.2, 3.1, 3.2, 4.1, 5.1, 5.2, 6.1, 6.2, 7.1, 7.2</td>
<td>All areas</td>
<td>Trial HSC Examination</td>
<td>T2 Wk 9/10</td>
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