# 6 Course Structure

The arrangement and relationship between components of the Preliminary course and the HSC course for Information Processes and Technology Stage 6 are outlined below. The percentage values refer to indicative course time. A minimum of 40% course time is to be devoted to the integration of content into project work in both the Preliminary and HSC courses. It is also expected that a significant proportion of time will be devoted to integrated practical activities.

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| **Preliminary Course** | **HSC Course** |
| **Introduction to Information Skills and****Systems (20%)*** Information systems in context
* Information processes
* The nature of data and information
* Reasons for digital data representation
* Social and ethical issues

**Tools for Information Processes (50%)*** Collecting
* Organising
* Analysing
* Storing and Retrieving
* Processing
* Transmitting and Receiving
* Displaying
* Integration of processes

**Developing Information Systems (30%)*** Traditional stages in developing a system
* Complexity of systems
* Roles of people involved in systems development
* Social and ethical issues
 | **Project Management (20%)*** Techniques for managing a project
* Understanding the problem
* Planning
* Designing 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
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**Conceptual Model of the Preliminary and HSC Courses**

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| **Information Processes** |

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| Collecting | Organising | Analysing | Storing and Retrieving | Processing | Transmitting/Receiving | Displaying |

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| **Preliminary** |  | Project Work40% |

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| Introduction to Information Skills and Systems |
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| Tools for Information Processes |
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| Developing Information Systems |

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| **HSC** |  | Project Work40% |

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| Project Management |
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| Information Systems and Databases |
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| Communication Systems |
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| **Options**Transaction Processing SystemsDecision Support SystemsAutomated Manufacturing SystemsMultimedia Systems |

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