# 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 |

**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 Work  40% | |  | | --- | | Introduction to Information Skills and Systems | |  | | Tools for Information Processes | |  | | Developing Information Systems | |
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| **HSC** |  | Project Work  40% | |  | | --- | | Project Management | |  | | Information Systems and Databases | |  | | Communication Systems | |  | | **Options**  Transaction Processing Systems  Decision Support Systems  Automated Manufacturing Systems  Multimedia Systems | |