**Design and Technology 2023**

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| **Task Number** | **Task 1** | **Task 2** | **Task 3** | **Task 4** |  |
| **Nature of Tasks** | Project Proposal Presentation | Innovation and Emerging Technology Case Study\* | Project Modelling and Testing Presentation | Trial HSC Examination |
| **Timing** | Term 4, Week 8 | Term 1, Week 4 | Term 2, Week 5 | Term 3, Week 4-5 |
| **Outcomes assessed** | H2.1, H4.1,  H4.2 | H2.2, H3.1,  H3.2, H6.2 | H4.3, H5.1,  H5.2, H6.1 | H4.3, H5.1,  H5.2, H6.1 |
| **Component** | **Weighting %** | | | | |
| **Knowledge and understanding of course content.** |  | 20 |  | 20 | 40 |
| **Knowledge and skills in designing, managing, producing and evaluating a major design project.** | 20 |  | 30 | 10 | 60 |
| **Total %** | **20** | **20** | **30** | **30** | **100** |

\* Mandatory task

**Outcomes**

H1.1 critically analyses the factors affecting design and the development and success of design projects.

H1.2 relates the practices and processes of designers and producers to the major design project.

H2.1 explains the influence of trends in society on design and production.

H2.2 evaluates the impact of design and innovation on society and the environment.

H3.1 analyses the factors that influence innovation and the success of innovation.

H3.2 uses creative and innovative approaches in designing and producing.

H4.1 identifies a need or opportunity and researches and explores ideas for design development and production of the major design project.

H4.2 selects and uses resources responsibly and safely to realise a quality major design project.

H4.3 evaluates the processes undertaken and the impacts of the major design project.

H5.1 manages the development of a quality major design project.

H5.2 selects and uses appropriate research methods and communication techniques.

H6.1 justifies technological activities undertaken in the major design project through the study of industrial and commercial practices.

H6.2 critically assesses the emergence and impact of new technologies, and the factors affecting their development.