### 6 Course Structure

<table>
<thead>
<tr>
<th>Preliminary Course</th>
<th>HSC Course</th>
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<td>120 indicative hours</td>
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Each of the content areas should be introduced and given appropriate emphasis through teaching and learning activities and a minimum of two design projects.

#### Designing and Producing

The study of:
- design theory and practice
- design processes
- factors affecting designing and producing
- design and production processes in domestic, community, industrial and commercial settings
- technologies in industrial and commercial settings
- environmental and social issues
- creative approaches to design
- collaborative approaches to design
- project analysis
- marketing and market research
- techniques, materials, tools and other resources
- the realisation of ideas through the manipulation of techniques, materials tools and other resources
- safety
- evaluation
- project management
- factors affecting management
- communication
- research methods
- interpreting and presenting data
- ethics in research
- manufacturing and production
- computer-based technologies.

As part of this study, students will complete a minimum of two design projects.

Each of the content areas are addressed through the major design project, case study and through other teaching and learning activities.

#### Innovation and Emerging Technologies

The study of:
- designs and design practice
- factors which may impact on successful innovation
- entrepreneurial activity
- the impact of emerging technologies
- the impact on Australian society
- historical and cultural influences
- ethical and environmental issues
- creativity.

As part of this study, students will complete a case study of an innovation which includes reference to the above factors.

#### Designing and Producing

The study of:
- **Project proposal and project management**
  - identification and exploration of the need
  - areas of investigation
  - criteria to evaluate success
  - action, time and finance plans
  - selection and use of resources
- **Project development and realisation**
  - design theory and practice
  - creativity
  - research
  - development and evaluation of ideas
  - study of practices in industrial and commercial settings as they relate to the major design project
  - production techniques
  - communication
  - safe working practices
- **Project evaluation**
  - criteria for evaluation
  - analysis of evaluation
  - impact of the major design project on the individual, society and the environment.

As part of this study, students will complete a major design project.