

About Industrial Design

Industrial Design is one stream of the course Design Technology and Graphics. Industrial Design is for students interested in all areas of Design. After an introduction to design fundamentals and design processes, drawing studio projects will progressively transition to computer-aided drawing and 3D modelling and printing.

Design students solve problems through investigation, analysis, innovation, planning, production, evaluation, communication and marketing. Students develop insights into how design is culturally, socially and ethically constructed with an environmentally sustainable approach to product life cycles.

Studio exercises demand use of a mixture of visual medium over the course. For those students serious about design and visual communication, this is an excellent course of study. The course would be a suitable foundation for further study in design, either academic or vocational.

Course Patterns

The course is structured sequentially for either major or minor study.

Students should begin the Industrial Design stream of the Design Technology and Graphics course with the unit Industrial Design Foundation.

What jobs can studies in Design Technology and Graphics lead to?

- Engineering
- Architecture
- Industrial Design
- Graphic Design
- Digital 3D modelling
- Trade based careers
- Furniture or jewellery design

Units

All units described below are semester length (value 1.0).

Industrial Design Foundation (Beginning)

This unit is studio based and is designed to introduce students to the necessary conceptual understanding, graphic presentation techniques and visual language techniques in order to attempt the other units.



The design process will be applied to project briefs and the use of a Design Folio for work presentation will be introduced. Students with no previous technical drawing or art experience will be catered for.

CAD Industrial Design

Concepts introduced in CAD Industrial Design will be more complex and challenging. Design briefs will be presented, developed and solutions presented by students. 3D modeling programs will be introduced to facilitate the preparation of models to aid the assessment of designed solutions.



Design & Manufacture

The focus of this unit is production processes, manufacturing and materials. It offers students the opportunity to design, make and evaluate industrial solutions in a range of materials and mediums. Students will explore the theory and practice of design and construction processes.

Major Project

This unit is studio based and involves solving major design briefs revolving around Industrial Design, manufacturing and technology, modelling and prototypes. The application of time management and client consultation skills are central to this unit. CAD and 3D modelling will be used to explore design ideas and document solutions.

