

VCE Product Design and Technology Unit 1 & 2

OVERVIEW

Product Design and Technology focuses on assisting students to recognise their potential as designers. Students are supported as they assume the role of a designer-maker in the design and creation of a product. In adopting this role, they acquire and apply knowledge of factors that influence design. Students address the design factors relevant to their design situation.

UNIT 1

In this unit students are introduced to the Product design process, Intellectual Property and the Product design factors. The unit focuses on the analysis, modification and improvement of a product design with consideration of the materials used and sustainability. Students examine case studies of designers who use sustainable practices. They design and produce a re-designed product using tools, equipment, machines and materials, compare it with the original design and evaluate it against the needs and requirements outlined in their design brief.

UNIT 2

In this unit students work in teams to design and develop an item in a product range or contribute to the design, planning and production of a group product. They focus on factors including: human needs and wants; function, purpose and context for product design; aesthetics; materials and sustainability; and the impact of these factors on a design solution. They research and gain inspiration for their design from an historical and/or a cultural design movement or style.

ASSESSMENT

In Unit One students submit: a design folio in which they document their design process, and a re-designed product. Students are also assessed on a research module submitted as a case study, as well as a Unit One exam.

In Unit Two students submit a design folio in which they document their individual design process and their contribution to the team product. This includes a client profile, idea generation, research, working methods, materials and techniques, and documentation of the production of the final product. Students investigate the role of designers in a case study as well as undertaking an end of Unit exam.

SUBJECT PREREQUISITES

There are no prerequisites for this subject.

Students should be aware that it involves research as well as the making of objects.