

AS/A LEVEL PRODUCT DESIGN

What does the course involve?

The Product Design course allows you to show off your innovative and creative design talents to the full, if you like being creative and inventive, have flair and ambition then this course is for you. It combines engineering and aesthetics to allow you to produce functional products that will improve the quality of life. By means of exercises, research and practical projects you will learn to appreciate what is involved in the design and manufacture of products. You will be encouraged to take risks with your ideas.

What course units will I take?

AS Units

Unit 1 – Compulsory Unit - Advanced Innovation Challenge

This design challenge assesses your ability to design and model a product and then reflect on your design concept. Marks are awarded for innovation and originality. The unit requires approximately 75 hours of work allocated to teaching and learning appropriate skills and includes 7 hour assessment task. Candidates take part in a timed design challenge based on a pre-released theme, under exam conditions. The challenge consists of a design, and modelling exercise recorded in a workbook. A written reflection paper is completed at a later date.

Unit 2 – Compulsory Unit - The Product Study

Candidates are required to carry out an in-depth product analysis resulting in suggestions for improvements. This is the coursework unit. It consists of product analysis and product development, prototype modelling and testing. This unit requires approximately 75 hours work: 45hours allocated to teaching and learning of appropriate skills, and the final project representing 30 hours work with up to 20 A3 sheets of folder work. It is not envisaged that this task will involve the complete re-design of an existing product, but rather identify opportunities for its further development or enhancement.

The Units studied at AS Level are the basis for further study to A2 Level in Year 13. Marks earned for A1 will count towards your final A2 grade

The A2 program has two units of study. Coursework carries most of the marks and allows you to select a project of your own choice to design and develop into a fully working prototype product. The second unit is a written paper, which offers a selection of questions relating to the various D&T options.

A2 Units

Unit 3 – Compulsory Unit - Design make and Evaluate

You are required to produce a portfolio and working prototype for your product

This unit requires you to produce a coursework portfolio and product that fully demonstrates your designing, making and evaluation skills using creativity, flair and innovation that can be assessed against the assessment criteria. The coursework consists of designing, making, and evaluating a product, a marketing presentation, and a review and reflection. This unit is intended to draw upon and develop skills learnt in other units.

Unit 4 – Compulsory Unit - Product Design

Product Design is a written paper that consists of two components. Candidates are able to select questions across the focus material areas if they wish.

The subject content of this unit is focussed towards products and applications and their analysis in respect of: Materials, components and their uses, Manufacturing processes, Industrial and commercial practices.

This is a written paper consisting of **two** components. You will be able to select questions across the focus material areas.

What qualifications do I need?

The course is ideally suited to students who have completed a GCSE in any of the D&T areas including Resistant Materials, Graphics, Textiles or Food. Other subject areas that focus on flair and creativity could also be appropriate.

Will I take part in any study visits/field work?

As an essential part of the course we will arrange visits to exhibitions, galleries and manufacturing companies

What can I do after the course?

With a qualification in Product Design you could go on to Higher Education to gain a degree in any of the related areas but with or without a degree, you can use this qualification to work in a great variety of jobs with a design or problem solving element.