

# IB Design Technology HL Level 3



## Qualification Aims and Objectives

Design is a process that seeks to solve problems using innovation and Creative thinking to provide a structured response and practical solution. Design involves generating ideas, exploring all possibilities and constraints to find solutions. Design is human-centred and focuses on the requirements of the end user. Students will develop an understanding of design through theoretical study and design-based assignments with practical outcomes.

The course is structured with a focus on the six stages of the Design Process. This consists of Criteria A,B,C,D,E and F. All of these criteria are assessed in the final IA coursework project which is completed in year 13.

## Course Outline

ALL students study the following topics on the Higher Level IB DT course

### Year 12:

- Human factors and ergonomics
- User-centred design (UCD)
- Modelling
- Innovation and design
- Classic designs

### Year 13:

- Sustainability
- Resource management
- Raw materials to final product
- Innovation and markets
- Commercial production

### External Assessment (60%):

- Two (SL) or three (HL) written papers containing: 1 multiple-choice question, 2 data-based, short answer and 3 extended response questions.

### Internal Assessment (40%):

- Practical investigations, a group project and a student driven design and manufacture project.

This course is a good choice for any students that have successfully completed the AQA GCSE in Design and wish to continue to develop their skills further. It is also an excellent opportunity to gain a practical knowledge of cutting-edge Computer Aided Design (CAD) software to produce 3D computer models of products to be manufactured in industry.

Working on a range of real world problems, students will develop a wide and diverse range of skills that will equip them for employment, or to pursue other career pathways including, university courses and apprenticeships. Alongside these opportunities, students will also learn transferrable skills, such as research, presentation, production, testing strategies, analytical techniques and evaluation methods. All of which will be directly applicable to many other fields of work beyond design.



## Entry Requirements

Minimum of 5 9-5 grades in GCSE examinations including English and Maths.

## Future courses & possible careers

- Architecture
- Automotive Design
- Engineering
- Exhibition Design
- Graphic Design
- Furniture Design
- Interior Design
- Product Design
- Set Design
- Web Design

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