A LEVEL PRODUCT DESIGN

Course description

Awarding Body: OCR Design and Technology: Product Design (H406)

Examinations
Principles of Product Design - 1 hour 30 minutes written paper.
Problem Solving in Product Design - 1 hour 45 minutes written paper.
50% final mark

Non-exam assessment
Iterative Design Project = on-exam assessment, 50% of total A Level 50% final mark

Course content

Principals of Product Design:

The content of this component is focused towards products and their applications. Analysis of products in respect of:

- • materials, components and their selection and uses in products/systems
- • industrial and commercial practices
- • wider issues affecting design decisions.

Materials and components are studied from the perspective of analysing modern consumer products that are designed to meet identified consumer needs, their design and manufacture, and taught within the context of product development and industrial and commercial practices. Learners should be familiar with a range of materials and components used in the manufacture of commonly available products, and they should be able to make critical comparisons between them.

Problem Solving in Product Design:

This component has a series of longer answer questions that require students to demonstrate their problem solving and critical evaluation skills. Students are required to:

- Apply their knowledge, understanding and skills of designing and manufacturing prototypes and products.
- Demonstrate their higher thinking skills to solve problems and evaluate situations and suitability of design solutions.

Iterative Design Project

The 'Iterative Design Project' requires students to undertake a substantial project centered on the iterative process of explore, create and evaluate. Pupils will be tasked with finding a relevant design problem with a range of stakeholders. Researching, designing, modeling and testing ideas to iterate a design solution which they prototype, test and evaluate.

Students identify a design opportunity or problem from a context of their own choice, and create a portfolio of evidence in real time through the project to demonstrate their competence.

Entry requirements
Grade 7, 8 or 9 at Design and Technology/Engineering GCSE

Future opportunities
Product Design, Engineering, Architecture, Furniture Design, Jewlery Design, Interior Design, Material Science & Industrial Design.

Students in year 12 are invited to apply for position of Student Subject Leader. Their role will be to promote the subject across the school, mentor younger students, run extra curricular projects, liaise with parents at Open Evenings and generally be an ambassador for the subject across all key stages.

Further information
Our students have progressed to leading universities in the design and creative industries such as Brunel University, UAL, Southampton, Loughborough & Bournemouth.