

Design & Technology – Product Design: Resistant Materials Technology

Team Leader Miss J Shrapnell

Aims

- Develop and sustain innovation, creativity and design and technology capability, to recognise constraints and to produce high quality products
- Develop critical understanding of the influences of the processes and products of design and technological activity from a historical perspective and in current practice
- Apply essential knowledge, understanding and skills of design production processes to a range of technological activities and develop an understanding of industrial practices use information and communications technology (ICT) to enhance their design and technological capability
- Recognise the social, moral, spiritual and cultural values inherent in design and technological activity, and develop critical evaluation skills in technical, aesthetic, ethical, economic, environmental, social and cultural contexts
- Develop as discerning consumers able to make informed choices
- Develop positive attitudes of co-operation and citizenship and work collaboratively.

Course Description

The two-year course is designed to meet the GCE specification through:

AS (Advanced Subsidiary)

There are two units of assessment, one unit is assessed by internal marking and external moderation and one unit is externally assessed by examination.

Unit 1: Product Development

Internal assessment
Coursework project
50% AS
25% of Advanced GCE

Unit 2: Knowledge and Understanding of Product Design

External assessment
2-hour examination
50% AS
25% of Advanced GCE

A2

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Internal assessment
Coursework project
25% of Advanced GCE

Unit 2: Knowledge and Understanding of Product Design

External assessment
2-hour examination
25% of Advanced GCE

Exam Board EDEXCEL (8108/9108)

Homework

AS & A2

Research based activities or private study relating to tasks from the EDEXCEL text book or a past paper exam question. Pupils also complete regular coursework based homework's which are either extension tasks of work completed in school or research based tasks for developing ideas.

Assessment

All work is assessed against EDEXCEL GCE guidelines with written and verbal feedback given to students to ensure that pupil progress is regularly monitored and agreed targets are set for progression.

Pupils are encouraged to develop self-assessment and peer-assessment skills through regularly evaluating their own and others work.

Extra Curricular

Students have the opportunity to take part in a number of visits, including the UCAS convention dedicated to Further and Higher education in Art & Design. Students are also always welcome to complete coursework in the dedicated room with support from the D&T staff.