

Product Design: 3D Design - A Level

Contact Person: Ms N Allright

Course Outline:

You are encouraged to be innovative in your design creations and produce high-quality, modelled-prototypes of your products.

- Develop a critical understanding of the influences of technological activity, from a historical perspective and current practice.
- Learn to apply analytical and evaluative skills to a range of procedures and gain an understanding in industrial practices as well as relating to our future resource and environment needs.
- Use a variety of ICT CAD/CAM skills to communicate high quality design concepts during development.
- Work as independent researchers and make informed choices via detailed analysis.
- Cultivate positive attitudes of co-operation and work collaboratively.

Skills/Aptitudes Developed/Required:

Excellent time management to meet deadlines. Keen interest and enjoyment of designing and the production of high quality, modelled prototypes of your ideas. To develop a toolbox of product analysis skills applied to the key concepts of function and ergonomics within everyday objects. To evaluate prototypes against specification and develop suitable modifications for industrial production. You are also expected to be in contact with a specialist in industry during the project to help with continuous feedback and development of your product.

GCSE grade 5 is required in Design and Technology or Engineering. GCSE grade 4 may be considered.

Additional Considerations:

Relevant graphic equipment will assist the communication of design work, such as good quality blendable colour pencils, small selection of markers, fineline pens, etc.

A copy of the essential textbook 'AQA Design and Technology: Product Design' ISBN 978-1-5104-1408-2 approximately £28.00, is a pre-requisite of the course. Due to the ever-increasing price and variety of materials supplied, we request a small donation of £12 towards these costs.

Progression Post-18

Successful candidates can continue into further education in related design fields, such as engineering, product furniture, graphic design, advertising, product design, architectural modelling, CAD/CAM operations, material applications, animatronics, ergonomics, anthropometrics, and all fields of design and manufacturing including one off craft designing.

Some design studios and companies may be prepared to take on students for modern apprenticeships or additional training to learn specific skills. The production of a high quality Design Portfolio during this course has assisted many students in interviews and selection procedures to initiate their careers in related subjects.



Qualification: A Level Coursework: 50% Examination: 50%

Examination Board: AQA