



Wakefield Girls' High School
Wakefield

Technical Information

A-level

A-level Course Title	Unit Code	Awarding Body
Design and Technology: Product Design	9DT0	Edexcel

A-level Examinations:

Name	Method of Assessment	Marks
Principles of Design and Technology	External Examination (2 hours 30mins)	120
Independent Design and Make Project	Internal Assessment External Standardisation	120

WGHS Senior School

(Girls 11-18 years)
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Course Guide

A-level Design Technology

Product Design

Design Technology

– Product Design

Background Knowledge and Qualifications

It would be expected that students interested in this course would have studied Design Technology Product Design at GCSE, achieving a grade B or above. Students who do not possess these entry qualifications will be seen on an individual basis for their current strengths and abilities to be discussed.

Students of A-level Product Design will be encouraged to:

- 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

During the two year course you will study a range of materials; you will develop a technical understanding of how products function and how they are made to appropriately support the design and manufacture of your own design solutions. You will learn about wider design principles and the effect of design on users and the world we live in.

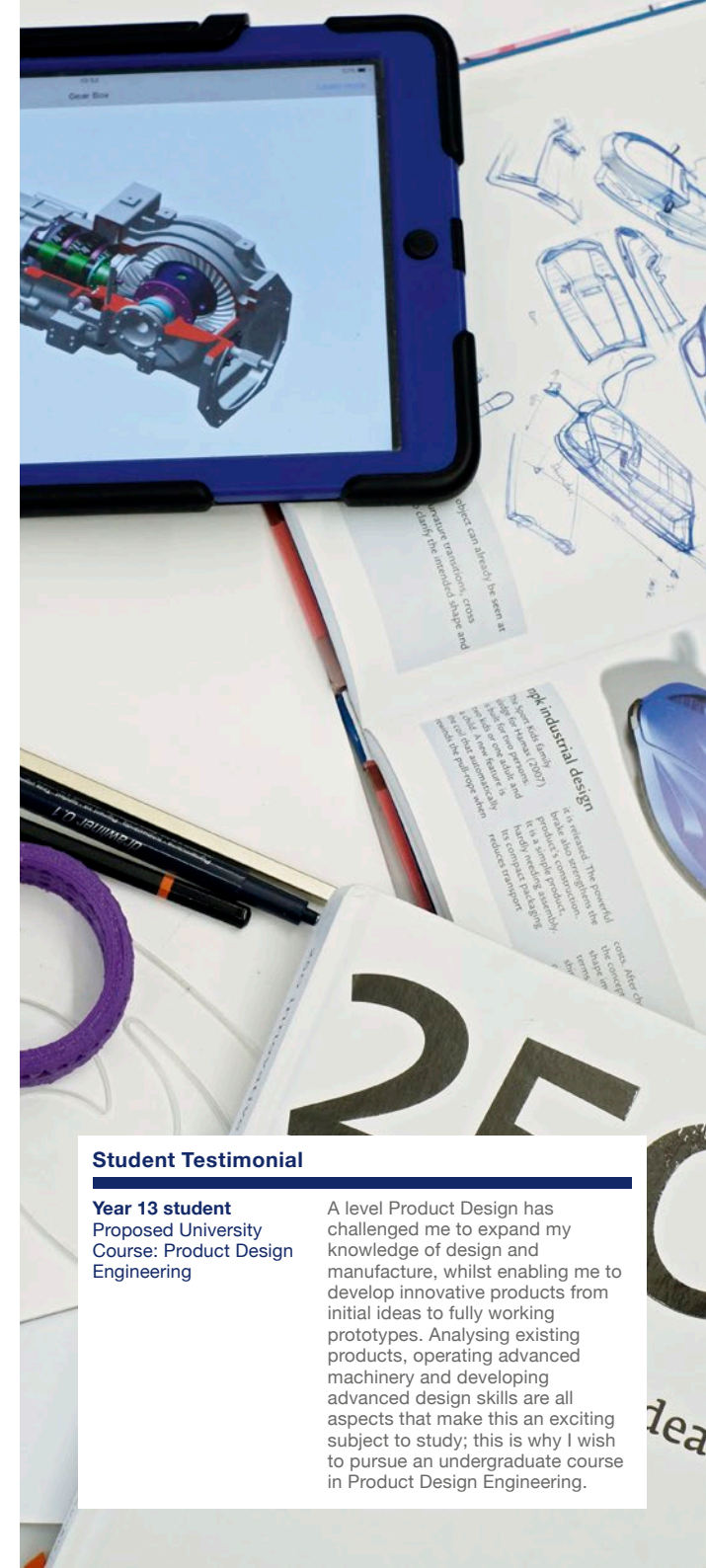
You will identify market needs and opportunities for new products, initiate and develop design solutions, and make and test prototypes/ products. You will develop your subject knowledge, including how a product can be developed through the stages of prototyping, realisation and commercial manufacture.

You will develop a critical mind through enquiry and problem solving, exploration, creation and evaluation of iterative designs. We encourage freedom in approaches towards designing and making so as not to limit the possibilities of project work or the materials and processes being used.

The specification content requires you to apply mathematical and scientific knowledge, understanding and skills. This content reflects the importance of Design and Technology as a pivotal STEM subject.

Use of Course and Qualification

- You will gain skills that are useful in a wide range of jobs, in further study of design or engineering and in your personal life develop decision making skills, including the planning and organisation of time and resources when managing a project.
- You will build and develop on your knowledge and understanding from GCSE whilst also having the freedom to focus in more depth on areas of design and technology that most interests you. This allows access to a range of future career aspirations in the design and engineering industries, leading to future careers in product design, engineering, architecture, fashion and graphic design; it will develop your design and thinking skills that open up a world of possibility, providing the tools to create the future.



Student Testimonial

Year 13 student
Proposed University
Course: Product Design
Engineering

A level Product Design has challenged me to expand my knowledge of design and manufacture, whilst enabling me to develop innovative products from initial ideas to fully working prototypes. Analysing existing products, operating advanced machinery and developing advanced design skills are all aspects that make this an exciting subject to study; this is why I wish to pursue an undergraduate course in Product Design Engineering.