

Engineering AS/A2

EXAMINATION BOARD:
EDEXEL

ENTRANCE REQUIREMENTS:

The Running of this Course is Dependant on Sufficient Student Interest –

Normally Grade C or above in the same specialism studied at GCSE. Applications from students with similar Grades in other D & T specialisms will be considered with acceptance decided at interview.

The Edexcel GCE in Engineering gives students an understanding of different areas of Engineering, helping them to build and apply knowledge within a wide variety of Engineering contexts.

Why choose the Edexcel GCE in Engineering?

Edexcel is the only awarding body to offer this new qualification. It can be taken alongside GCE Maths or any of the science GCEs. On a stand-alone basis, its AS level provides a valuable insight into Engineering for students intending to pursue a wide range of careers.

The Edexcel GCE in Engineering helps students to:

Understand the nature and demands of different areas of engineering

Develop an understanding of engineering technologies and the complex sub-groups that make up engineering and related industries

Apply their understanding of engineering and its practical and technological aspects, through project-based study of engineering design, production, commissioning and maintenance.

Students design and manufacture engineering products at both AS and A2 level.

They will also:

Examine existing engineered products and investigate the role of the engineer in their design or manufacture. The A2 external assessment is based on three practical engineering activities for which Edexcel sets the brief.

The GCE in Engineering is a natural progression for students who have completed a GCSE (Double Award) Engineering and is also suitable for those who have taken a GCSE (Double Award) in Manufacturing.

Course Structure

The qualification has an AS/A2 structure. It can take the form of:

Single Award AS GCE (3 units)

Single Award Advanced GCE (6 units)

Progression

The Edexcel GCE in Engineering qualifies for UCAS points.

It gives students a wide choice of progression options into further study, training or relevant employment.

Students who successfully complete the qualification will be well equipped to move onto degrees, BTEC Higher National Diplomas or NVQs.

AS:

Unit 1 – Engineering Materials, Processes and Techniques

Unit 2 – The Role of the Engineer

Unit 3 – Principles of Design, Planning and Prototyping

A2:

Unit 4 – Applied Engineering Systems

Unit 5 – The Engineering Environment

Unit 6 – Applied Design, Planning and Prototyping