

WELCOME TO...

Level 1 / 2

# Engineering

## Aims of the course

- Develop a range of transferable engineering skills that will form a valuable foundation for future learning.
- Engage in a range of engineering processes and develop to become an effective and independent young engineer.
- Develop an awareness of emerging technologies and sustainable development.
- Prepare for entry into the workplace or for Level 3 / A Level qualifications.

## What will I study?

Engineering Design. Producing Engineered Products. Solving Engineering problems. Analysing products. How will I learn? What skills will I acquire?

Students learn through:

- Researching and analysing information to produce design solutions for clients.
- Developing design ideas using a range of techniques.
- Reading and producing engineering drawings.
- Developing practical skills to produce engineered products.
- Understanding the impact of new technology on engineered products and the environment.

Students will acquire skills in:

Drawing techniques.

Use of engineering equipment.

CAD/CAM.

Communication.

Problem solving.

Applied mathematics to solve problems.

## Assessment:

**Unit 1 – (25%)** Product analysis and redesign.  
Internal assessment with external moderation.

**Unit 2 – (50%)** Engineering planning, manufacturing and quality evaluation.  
Internal assessment with external moderation.

**Unit 3 – (25%)** Written examination.  
External assessment.

## Future career opportunities

- Modern apprenticeships in industries such as civil engineering, electronics, communications, medicine, film, building trades etc. Students can learn and earn through learning in a work environment and getting formal qualifications.
- Students can work towards becoming an Engineering Technician, Incorporated Engineer or a Chartered Engineer.

In the current climate there are excellent opportunities. In particular, enticing females into Engineering is a focus point at present.

