

Engineering: National Diploma

BTEC Level 3 (Equivalent to two A-Levels)

Exam Board: **edexcel**



ENTRY REQUIREMENTS

4+

In four GCSE subjects including science

5+

In GCSE Maths and English

4+

In a GCSE subject related to engineering e.g. IT/DT

SUBJECT OVERVIEW

The Level 3 diploma is designed for students wishing to progress into an engineering apprenticeship or to a university higher education course in engineering.

The course covers all areas of engineering including mechanical, electrical, production, business, electronics and product design.

The diploma is a specialist qualification designed to be studied over two years alongside additional qualifications such as Design Technology, Maths or Physics

TOPICS/UNITS/MODULES

The course consists of 10 separate units, 5 of which are compulsory. Of the 5 compulsory units, 2 are externally tested through a combination of external examinations and specific set tasks which are time constrained.

All externally assessed units must be passed and all 10 units must reach the minimum grade of "pass".

Skills Learnt

- Technical and Practical engineering skills
- Mathematical and Analytical skills
- Project management
- Communication
- Health, Safety and Environmental Awareness
- Critical Thinking and innovation
- Computational and software skills
- Ethical and professional Responsibility

EXAMINATION/ASSESSMENT

8 units

2 units

Examined, externally marked units (2 hours each and only two attempts allowed by the examination board)

Coursework units marked by teachers and then checked by the exam board

Careers

- Mechanical engineering
- Electrical engineering
- Civil engineering
- Project management
- Renewable energy careers
- Manufacturing and production
- Construction and building services
- Industrial engineering