Level 5 Higher National Diploma in Electrical Engineering

Study Type

Higher Education

Course Area

Engineering & Manufacturing

Course Duration

1 year (full time) or 2 years (part time)

Entry Requirements

To enter this programme, you should ideally be employed in a technical role and have a Higher National Certificate or progressing from a current HNC programme in an engineering related subject to a merit standard. In addition, you will be expected to demonstrate the enthusiasm and motivation needed to meet the academic requirements of the programme.

All students must have Maths and English at GCSE grade B/5. Additional requirements and references may be requested.

Course Information

This course is designed to develop your knowledge and skills across a broad range of electrical, electronic engineering technologies that are essential to businesses in this rapidly evolving and dynamic sector of the economy. The course also aims to help you gain key transferable skills that are highly valued by employers.

Our expert tutors will guide you throughout your course and help you gain practical, professional and subject specific skills. Your course will cover the key knowledge required by all engineers such as; engineering design, mathematics and science, and how to manage a professional engineering project.

You will be able to take specialist units to further develop your knowledge in areas of electrical, electronic engineering. You will also learn the principals of professional engineering management and advanced mathematical studies. You will also complete an individual project, where you will have the opportunity to develop and apply your knowledge, practical ability and design skills. We will support you as you develop cognitive, intellectual and thinking skills, and gain valuable key, personal and transferable skills ready for employment or further study.

Core modules include:

- Further maths
- Professional engineering management
- Research project double unit

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- Advanced manufacturing technology
- Embedded systems
- Analogue electronic systems
- Robotics and PLCs.

You can expect to attend lectures, practical sessions, workshops, tutorials and informal group study sessions. There will also be opportunities to go and attend guest lectures by specialists from industry, the professional bodies or other academic institutions.

There is a formal or ‘summative’ assessment at the end of each module/unit. Methods include a range of assessments such as exams, essays, reports, portfolios, presentations, and final year major project. The grades from the formal assessments count towards your module/unit mark or grade.

Progression

This qualification will give students the opportunity to enrol in a suitable engineering degree at university, or further your career.