

Higher National Diploma in Electrical and Electronic Engineering for England

Subject Area	Engineering
Course Type	Higher Education
Study Level	Level 5
Delivery Mode	Full-time
Location	David Hockney Building
Duration	2 Academic Years
Start Date	September 2024
Course Code	PFHN061

Course Summary

The Pearson BTEC Level 5 Higher National Diploma in Engineering (Electrical and Electronic Engineering) is designed to provide you with a wider knowledge of Engineering principles and methodology, supported by the development of analytical and research skills to prepare you for employment opportunities in the Electrical and Electronic Engineering field. Emphasis will be placed upon reflection, analysis, environmental impact, critical thinking and personal development.

This programme is available as a full programme or Top-up.

What You Will Learn

Teaching and learning methods include:

- Lectures and Seminars
- Workshops and Labs

- Tutorials
- Virtual Learning Environments (VLEs) Moodle
- Work Based Learning
- Guest Speakers
- Field Trips

Modules

Year 1:

- Engineering Design
- Engineering Maths
- Managing a Professional Engineering Project
- Production Engineering for Manufacture
- Automation, Robotics and Programmable Logic Controllers (PLCs)
- Quality and Process Improvement
- Electrical and Electronic Principles
- Electrical Machines

Year 2:

- Further Mathematics
- Further Electrical Machines and Drives
- Industrial Power, Electronics and Storage
- Embedded Systems
- Further Electrical, Electronic and Digital Principles
- Utilisation of Electrical Power
- Professional Engineering Management
- Further Programmable Logic Controllers (PLCs)

Entry Requirements

A BTEC Level 3 qualification in Engineering and a minimum of 80 UCAS points. GCSE Mathematics and English at Grade 4 minimum or equivalent.

Or

A minimum of 80 UCAS points including at least one Level 3 qualification in Maths, Physics or Computer Science. GCSE Mathematics and English at Grade 4 minimum or equivalent.

Or

An Access to Higher Education Certificate in an Engineering discipline awarded by an approved Further Education institution.

Work Experience

Although this course does not directly offer work experience, there are opportunities for you to undertake a work placement or work experience during your time studying on this course.

Progression

The programme is designed to support career progression for anyone working in Engineering or for those who would like to develop their knowledge and skills and pursue a career in this field.

Disclaimer: Our prospectus, college documents and website are simply here to offer a guide. We accept no liability for any inaccurate statements and are not responsible for any negative outcomes if you rely on an inaccurate statement. We reserve the right to withdraw any programmes or service at any time.