

Higher National Diploma in Mechanical Engineering

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	PFHN063

Course Summary

The Pearson BTEC Level 5 Higher National Diploma in Engineering (Mechanical Engineering) is designed to provide you with wider knowledge of Engineering principles and methodology, supported by the development of analytical and research skills to prepare you for employment opportunities in the Mechanical 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

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
- Fluid Mechanics
- Production Engineering for Manufacture
- Mechanical Principles
- Fundamentals of Thermodynamics and Heat Engines
- Quality and Process Improvement

Year 2:

- Further Mathematics
- Advanced Mechanical Principles
- Virtual Engineering
- Further Thermodynamics
- Manufacturing Systems Engineering
- Thermofluids
- Professional Engineering Management
- Lean Manufacturing

Entry Requirements

For the two-year HND programme, 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 work placements are not mandatory on the programme, the Work Experience team will be present in the induction to discuss the options for work placements. Students who are not work based will be encouraged to undertake industry work placements throughout their programme to enrich the skills and knowledge gained and to develop contacts in the engineering industry.

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.