

## EVERYONE HAS AN INNER GENIUS

*We can help  
you find yours*

Join our graduates  
and fast track  
your way to a  
successful career

Course Validated by



2017/18

## Top-up HND Engineering

(Pathways available; Mechanical, Electrical and Electronic, Operations or Manufacturing)

*If you want to further your HNC  
Engineering studies this could be  
the course for you,*

### COURSE OVERVIEW

The Higher National Diploma in Engineering is a taught programme of academic study and is suited to students continuing from their HNC in Engineering. The purpose of the qualification is to equip students with the knowledge necessary to develop their careers to engineer level employment. Students may wish to continue from the HND qualification to university to top-up to a degree level qualification.

### MODULES

You will study a selection of the following modules according to staff availability and student preference. Modules may be subject to change.

#### - Employability Skills

This module provides students with the opportunity to assess and develop their transferable skills including communication, team and leadership dynamics.

#### - Design for Manufacture

This module will investigate the processes involved in analysing a product design and preparing for its manufacture.

#### - Industrial Robot Technology

Industrial robots are used in a variety of production applications. This module will provide students with a greater understanding of the various elements of Industrial robotics including control and intelligence, end effectors and system errors.

#### - Further Analytical Methods for Engineers

This is a deeper mathematics based module usually undertaken by students wishing to further their studies on completion of the HND (e.g. Top-up to degree level).

### LOCATION

#### WORCESTER

Electrical and  
Electronic Engineering  
WEEN-HD5-1719

Mechanical Engineering  
WMCT-HD5-1719

Manufacturing Engineering  
WMNT-HD5-1719

Operations Engineering  
WOPT-HD5-1719

### COURSE LENGTH

18 months (part-time)

### TUITION FEES

£3,380 per year

### AWARD ON SUCCESSFUL COMPLETION

Pearson HND Electrical  
and Electronic, Mechanical,  
Manufacturing or  
Operations Engineering

### HOW TO APPLY

Please apply through  
our website at  
[www.howcollege.ac.uk](http://www.howcollege.ac.uk)

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### - **Electrical/Electronic Principles**

This module will provide an understanding of electrical and electronic principles used in a range of engineering careers and provides the basis for further study of more specialist areas of electrical/electronic engineering.

### - **Mechanical Principles**

This module will develop the understanding of an extended range of mechanical principles that underpin the design and operation of mechanical engineering systems.

### - **Manufacturing Planning and Scheduling Principles**

The aim of this module is develop an understanding of the methods and techniques used in process planning and scheduling and will enable them to plan and schedule a manufacturing activity.

### - **Quality and Business Improvement**

The aim of this module is to develop knowledge and understanding of the principles and applications of quality management.

### - **Energy Management**

The principle focus of this module is to establish and develop an energy audit in the context of a plant engineering environment.

### **ENTRY REQUIREMENTS**

HNC in a relevant Engineering discipline

### **DELIVERY INFORMATION**

Part-time classroom based delivery from 08.45 to 17.30 one day per week (day to be confirmed). In addition to this you are expected to complete an average of 3 hours independant study per week.

### **METHODS OF ASSESSMENT**

A range of assessment techniques which may include; written assignments, examinations, work-based projects and verbal presentations.

### **STAFF EXPERIENCE**

The course will be delivered by a blend of experienced staff that have a wide and extensive range of qualifications and vocational knowledge. All staff have industrial experience in their chosen focus of study and complete frequent scholarly activities o update their knowledge and skills. This breadth and depth of module specific knowledge and experience allows the team to introduce the modules using innovative approaches and vocational context in the classroom which emulates with work based learners.