2018/19

WORCESTERSHIRE
Higher Education Institute

EVERYONE HAS AN INNER GENIUS

We can help you find yours

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

TEF Silver

AWARDED SILVER IN THE 2017 TEACHING EXCELLENCE FRAMEWORK

Course Validated by

STAFFORDSHIRE UNIVERSITY
IN PARTNERSHIP

Foundation Degree in Engineering

(Pathways available; Mechanical Technology, Electrical and Electronic Technology, Manufacturing Technology)

If you are creative and a natural problem solver, then engineering could be your perfect career choice.

COURSE OVERVIEW

The Foundation Degree in Engineering Technology is a taught programme of academic study and is suited to students wishing to undertake a higher level engineering qualification. It is validated by the University of Staffordshire. 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 Foundation Degree to university to top-up to a full degree level qualification.

Course delivery will be through a range of techniques including computer based simulation activities, practical laboratory experiments, and work-based project management. Using these delivery techniques enables students to learn and apply these skills in their vocational areas of expertise and careers.

MODULES

You will study a selection of the following modules according to staff availability and selected pathway (all mandatory and core modules must be studied). Modules may be subject to change.

Year one modules

- **Technology Fundamental - Core Module**
  This module introduces students to the fundamentals of electronic circuits and systems and the principles of mechanics necessary for the development of Technology.
- **Mathematics for Technology - Core Module**
  A mathematics module, taught across all foundation degree programmes, providing contextualised analysis of mathematics in engineering situations.

LOCATION

WORCESTER

Electrical and Electronic Technology
WEEN-DG5-1820

Manufacturing Technology
WMAN-DG5-1820

Mechanical Technology
WMME-DG5-1820

COURSE LENGTH

2 years (part-time)

TUITION FEES

£4,000 per year

AWARD ON SUCCESSFUL COMPLETION

Foundation Degree awarded by Staffordshire University

HOW TO APPLY

Please apply through our website at www.howcollege.ac.uk

For further information please visit howcollege.ac.uk
or email our HE Admissions team headmissions@howcollege.ac.uk

HEART OF WORCESTERSHIRE COLLEGE

2018/19

HEI
WORCESTERSHIRE
Higher Education Institute

EVERYONE HAS AN INNER GENIUS

We can help you find yours

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

TEF Silver

AWARDED SILVER IN THE 2017 TEACHING EXCELLENCE FRAMEWORK

- **Design Techniques - Core Module**
  A design based module, taught across all foundation degree programmes, introducing the student to a number of design features within a technological and manufacturing process.
- **Control Technology - Core Module**
  This module provides an understanding of control system design principles.
- **Personal Development 1 - Core Module**
  This module helps students become more independent and self-directed learners, and provides the skills to manage their personal and professional path.
- **Work based Project - Core Module**
  A project to develop skills of independent enquiry demonstrating project management skills relevant to the students own employment and ambitions.
- **Thermo-Mechanical Principles – Mandatory Module for Mechanical Technology Pathway**
  This module will develop the principles of mechanics and thermodynamics.
- **Electrical and Electronic Principles – Mandatory Module for Electrical Technology Pathway**
  This module gives students the analytical skills to predict circuit behaviour and electrical machine performance.
- **Mechanics and Manufacturing – Mandatory Module for Manufacturing Technology Pathway**
  This module develops the ideas that are central to the design and development of mechanical principles in relation to manufacturing

Year two modules:

- **Control Technology - Core Module**
  This module provides an understanding of control system design principles
- **Personal Development 2**
  This module helps students to become effective managers through a series of activities which requires self-evaluation and critical analysis of modern theories.
- **Work Based Project**
  This module will give the student the opportunity to develop their technology skills, knowledge and concepts, at a level appropriate to their Foundation Degree programme of study. The project will be 'industry based', being delivered from the student's place of employment.
- **Materials Production Creation Technology**
  This module will explore properties of materials and introduce software that can be used to select materials for a wide range of applications.
  It will also include the use of CAD/CAM systems to the design process. The student will be taught best practice in the operation of a CAD system and how to write programs to control a CNC machine

For further information please visit howcollege.ac.uk
or email our HE Admissions team headmissions@howcollege.ac.uk

HEART OF
WORCESTERSHIRE
COLLEGE

2018/19

HEI
WORCESTERSHIRE
Higher Education Institute

EVERYONE HAS AN INNER GENIUS

We can help you find yours

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

TEF Silver

AWARDED SILVER IN THE 2017 TEACHING EXCELLENCE FRAMEWORK

- **Mechanical and Fluid Technology**
  This module examines the principles and concepts of mechanical and fluid systems.
- **Manufacturing and Quality Management**
  This module explores 'Lean manufacturing' principles and methodology to enable students to gain an understanding. It then introduces planning and process control and methodology before students demonstrate knowledge of TAKT time by completing calculations.
- **Electrical Power**
  Electrical power and electronic power are studied at intermediate level. Students will use practical laboratory equipment to reinforce theoretical principles.
- **Applied Electronics Technology**
  Students will develop their electronics technology skills by completing practical activities.
- **Modern Communications Technology**
  This module allows students to investigate PLC systems and various installation and control scenarios.

ENTRY REQUIREMENTS

Level 3 qualification in a suitable discipline or for mature students relevant industrial experience may be considered.

DELIVERY INFORMATION

Part-time classroom based delivery from 08.45 to 20.00 one day per week (day to be confirmed). In addition to this you are expected to complete an average of 3 hours independent 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 to 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.

For further information please visit howcollege.ac.uk
or email our HE Admissions team headmissions@howcollege.ac.uk

HEART OF WORCESTERSHIRE COLLEGE