STAFFORDSHIRE UNIVERSITY

UCAS Code: HH36

BEng(Hons)/MEng Mechatronics

UNDERGRADUATE COURSE INFORMATION

Key Facts

Faculty of Computing, Engineering and Technology

Location:
Stafford Campus

Duration:
BEng(Hons), 3 years full-time
4 years with placement year
MEng, 4 years full-time
5 years with placement year

Entry requirements:
Typical offer: 240 UCAS points.
A levels: CCC or CDD plus C at AS. Must have a pass in A level Mathematics, Physics or related engineering subject).
BTEC: MMM in an Engineering discipline.
All applicants are individually assessed.
Detailed entry requirements can be found on each of our online course pages or by visiting www.staffs.ac.uk/ugentryrequirements

Accredited by:
the IMechE and IET

Institution of MECHANICAL ENGINEERS

IET
Collective inspiration

At-a-glance

Opportunities for multi-skilled engineers exist across business, industry and public services. This course will develop the skills required to design reliable and practical solutions, providing a link to facilitate discussions between specialist engineers. It will also prepare you for further study and provide the educational base to make application for professional registration with an appropriate institution such as IET, IMechE or IED.

There is an accelerated move towards high technology in industry and commerce. This means that the traditional demands on the mechanical engineer for analysis and design of components need to be enhanced. There is a need for the ability to devise and implement the supporting systems for complex measurement, data acquisition and control. This course has been designed using a mixture of modules from the mechanical and electronic routes.

Throughout this IET and IMechE accredited course, you will develop the skills and techniques used by all engineers and expand the theme of working across boundaries so modules cover electronic, mechanical and control systems. The course is modular and can be tailored towards a mechanical or electronic theme. There is an optional industrial placement between Years 2 and 3, providing additional experience to enhance employability. The final year includes a major specialised engineering project.

For those progressing to MEng in Year 4, the choice of Masters level modules include broadening and deepening expertise in areas such as Control, Robotics, Stress Analysis, Design and Communications, as well as undertaking an investigative project to design, manage and implement an individual programme of work.

Course Outline

Year 1

- Essential Electronics
- Essential Mechanics and Fluids
- Mathematics
- Instrumentation and Measurement
- Mechanical Principles
- Electronic Principles
- Software for Engineers
- Design Principles

Year 2

- Engineering Mathematics
- Applications of Control
- Management in Organisations
- Options available in Electronic, Mechanical, Design Robotics and Control

Optional placement year

Year 3

- Professional Engineering,
- Systems Engineering
- Project plus a range of options in the Mechanics and Electronics areas

Those wishing to pursue the MEng award in Year 3 will study a group project.

Year 4

- Individual Project
- Research Methods for Engineers
- Robotics and Automation
- 2 further options

STAFFORDSHIRE UNIVERSITY

WHY STUDY AT STAFFORDSHIRE UNIVERSITY?

We have a reputation for preparing students to take on the world. Our courses deliver the skills and experiences employers value. Our lecturers know what it is you need to succeed in business because they're industry professionals. What we teach is not only quality assured but informed by the latest thinking and developments in the real world. And with excellent facilities, a lively social scene, and low cost of living, Staffordshire University is a great place to be a student.

The information in this leaflet is correct at the time of publication, but may be subject to change.

For the latest information visit www.staffs.ac.uk/undergraduate or call our enquiries team on 01782 294400.

Detailed entry requirements can be found on each of our online course pages or by visiting www.staffs.ac.uk/ugentryrequirements

For full, up-to-date details of our degrees and other courses, visit: www.staffs.ac.uk/undergraduate

For lots of friendly help and advice:
Call: 01782 294400
Email: enquiries@staffs.ac.uk

CREATE THE **DIFFERENCE**

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