The UK's European university

University of Kent

MECHANICAL ENGINEERING

Canterbury

Undergraduate study

TEF Gold

MECHANICAL ENGINEERING BEng (HONS)

Engineering has shaped modern society, our professional and personal lives in ways that no other discipline has. By studying mechanical engineering at Kent, you gain the skills to make your own mark in this exciting field.

Mechanical engineering covers the design and the development of mechanical systems and is vital in many tech industries. At Kent, we focus on the modern applications of mechanical engineering, such as robotics, assistive technology, smart materials and autonomous vehicles.

The programmes

Mechanical Engineering
Mechanical Engineering with a Year in Industry

You study all aspects of mechanical engineering, from robotics to manufacturing, from fluid dynamics to materials, preparing you for a career in any branch of mechanical engineering.

Stage 1 modules

- Introduction to Mechanical Engineering and Design (EL323)
- Mechanics of Materials (EL324)
- Digital Technologies (EL315)
- Engineering Analysis (EL319)
- Engineering Mathematics (EL318)
- First-Year Engineering Applications Project (EL311)
- Introduction to Electronics (EL305)
- Introduction to Programming (EL313)

Stage 2 modules

- Computer Interfacing Group Project (EL562)
- Dynamics and Control (EL517)
- Electronic Instrumentation and Measurement Systems (EL565)
- Kinematics and Dynamics of Mechanisms (EL518)
- Manufacturing and Design (EL522)
- Mechatronics (EL521)
- Properties of Materials and Failure (EL520)
- Thermodynamics and Fluid Mechanics (EL519)

If you are taking the year in industry, it takes place between Stage 2 and Stage 3.

Stage 3 modules

- Advanced Applications of Mechanics (EL647)
- Engineering Thermodynamics and Fluid Mechanics (EL648)
- Image Analysis and Applications (EL561)
- Product Development (EL671)
- Project (EL600)
- Robotics (EL646)

Study resources

We provide first-class facilities to support your studies, including:

- mechanical workshop staffed with skilled mechanical engineers
- 120-seat engineering laboratory
- open access to high-end computers
- CAD and development software
- robotics/wheelchair laboratory
- 3D printing and laser cutting facilities.

Entry requirements

A level: BBB including B in Mathematics and a science/technology subject (eg Physics, Computing or Electronics)
BTEC Level 3 Extended Diploma: DDM including Distinction in Further Mathematics for Technicians
IB: 34 points overall or 15 at HL including Mathematics (not Mathematics Studies) 5 at HL or 6 at SL, and a science subject 5 at HL or 6 at SL

Entry requirements and offer levels are subject to change. For the latest information, see www.kent.ac.uk/ug

Professional links

Accreditation will be sought from the Institution of Mechanical Engineering (IMechE). The School has strong links with the Royal Academy of Engineering and the Institution of Engineering and Technology (IET). We have several visiting industrial professors who contribute to the strong industrial relevance of our programmes.

Further information

Subject enquiries

E: eda@kent.ac.uk
www.kent.ac.uk/eda

Admissions enquiries

T: +44 (0)1227 768896
www.kent.ac.uk/ug

Full details of our terms and conditions can be found at: www.kent.ac.uk/termsandconditions

*The University of Kent's Statement of Findings can be found at www.kent.ac.uk/tef-statement

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