Accredited by both the Institution of Engineering & Technology (IET) and the Institution of Mechanical Engineers (IMechE)

Develop essential engineering skills through extensive project work

Enhance your career prospects with a one-year placement in industry

Gain an integrated view of engineering and become an expert in the core areas of both mechanical and electrical engineering.

Subject aims
Traditional engineering degrees often offer purely mechanical or electrical subjects; however, 21st century industries and research laboratories need graduates with

Integrated Mechanical & Electrical Engineering degree programme structure

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<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
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| Semester 1 | Mathematics I  
Circuit theory  
Solid mechanics I  
Thermodynamics  
Design materials and manufacturing I |
| Semester 2 | Mathematics II  
Digital electronics  
Solid mechanics II  
Design materials and manufacturing II  
Robotics and mechatronics |
| Year 2 | Electromagnetics  
Modelling techniques I  
Electronic devices and circuits  
Digital systems design  
Design materials and manufacturing III |
| Optional industrial placement | Signals, systems and communications  
Modelling techniques II  
Electrical systems and power electronics  
Fluid mechanics  
Integrated control system design |
| Year 3 | Integrated engineering  
Control engineering  
Power electronics & drives  
Two of the following:  
Material selection in engineering design; mechanical vibration & noise; vehicle dynamics; business processes; microelectronic systems; signal processing; electrical energy systems & analysis |
| Optional industrial placement | Group design & business project |
| Year 4 | Robotics engineering  
System modelling & simulation  
Three of the following:  
Digital image processing; energy management systems; computational intelligence; power electronics & drives II; innovation and advanced design; advanced control; energy & the environment; modelling & analysis of manufacturing systems; biomimetics; fluid power |
| Optional industrial placement | Individual integrated engineering project |
interdisciplinary skills who are able to make an immediate contribution to teams working on complex projects. The University of Bath’s Integrated Mechanical & Electrical Engineering (IMEE) programme has been designed in consultation with industry to meet this need. It achieves this aim without sacrificing the intellectual rigour of a single-discipline programme. You will study subjects such as:

- robotics
- digital electronics
- advanced control
- thermofluids
- vehicle engineering.

The key features of this programme are:

- teaching from two world-class Departments, Electronic & Electrical Engineering and Mechanical Engineering
- an integrated view of engineering, combining mechanical and electrical as well as extensive industrial case studies
- a new state-of-the-art robotics laboratory for enhanced group and individual projects
- accreditation by both the Institution of Engineering & Technology (IET) and the Institution of Mechanical Engineers (IMechE), allowing the fastest route to Chartered Engineer status.

**Careers**

www.bath.ac.uk/careers/destinations

The career prospects for IMEE graduates are excellent. The programme has been designed in consultation with leading industrial partners to make sure that future graduates meet the requirements of 21st century engineering industries. These partners include:

- Jaguar Land Rover
- OC Robotics
- Rolls-Royce
- BMT Group
- Molins ITCM.

**Practical work and projects**

Engineering laboratory classes integrate both electrical and mechanical engineering in years 1 and 2. Robotic challenge, design case study, basic system prototyping, and the Bath mouse race are amongst project activities in these years. In study years 3 and 4, semester-long, industry-focused group and individual projects develop essential technical, team-working, business and management skills. Recent group and individual projects have included systems and hardware-level designs for robotics, mechatronic and intelligent machines, autonomous aria vehicle (UAV), landmine detection, 3D printing, formula student car and submarine.

If you are looking to study engineering, want to have great credentials on completion of your degree, and are willing to put the work in, then this is the perfect programme for you!

David Angell, MEng (Hons) Integrated Mechanical & Electrical Engineering graduate

Check our study web pages before you apply:

www.bath.ac.uk/study/ug
Entry requirements

Typical offers
A Levels: AAA
General Studies is excluded.

International Baccalaureate:
Overall 38 with 6 in Higher Level Mathematics and Physics and 5 in English at Standard Level.

Offers may vary, for the most up-to-date information on entry requirements, please consult our online prospectus at www.bath.ac.uk/study

English language requirements

Non-native speakers of English may be required to provide additional evidence of their English language proficiency. Typical minimum English academic requirements include GCSE, GCE Advanced Level, IGCSE and Cambridge O level English language at Grade C or above. Additional English language tests may be required such as IELTS at 6.5 including 6.0 in each element or PTE Academic at 62 with no less than 59 in any element.

For full details, visit the international office web pages at www.bath.ac.uk/international

You can apply online through the UK national admissions system at www.ucas.ac.uk

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