

# Engineering Courses

MEng/BEng Full-time and Part-time



# “Engineering, Design and Technology is a forte at Bradford”

Times Good University Guide

**Please address all full-time enquiries to:**

The Admissions Office  
School of Engineering, Design and Technology  
University of Bradford  
Bradford  
West Yorkshire  
BD7 1DP

Tel: 01274 234567 / 233877

Fax: 01274 234111

Email: [ug-eng-enquiries@bradford.ac.uk](mailto:ug-eng-enquiries@bradford.ac.uk)

Website: [www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)

**Please address all part-time enquiries to:**

Part-time Admissions Office  
School of Engineering, Design and Technology  
University of Bradford  
Bradford  
West Yorkshire  
BD7 1DP

Tel: 01274 234506

Email: [pt-eng-enquiries@bradford.ac.uk](mailto:pt-eng-enquiries@bradford.ac.uk)

If you are dialling from outside the UK, please use the code  
**+44 1274** before the final six-figure number

**Dean of the School of Engineering, Design and Technology**

Professor Alastair Wood

**General Course Enquiries**

Course Enquiries Office

Tel: 0800 073 1225

Minicom: 01274 233685

Fax: 01274 235585

Email: [course-enquiries@bradford.ac.uk](mailto:course-enquiries@bradford.ac.uk)



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Proud to be a  
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**We can arrange for this material to be transcribed into an accessible format such as Braille, large print, E-text (compatible with screen-reading software) or digital audio such as CD. Please contact the School of Engineering, Design and Technology. Tel: 01274 234567**

The University of Bradford - **Confronting Inequality; Celebrating Diversity™**  
The University of Bradford is committed to promoting equality, diversity and an inclusive and supportive environment for students, staff and others closely associated with the University in conformity with the provisions of its Charter.

*Front cover:*

*Santiago Calatrava's City of Arts & Science, Valencia, Spain © Joanne Crowther*

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\* indicates a professionally accredited course  
† full IChemE accreditation pending

# WELCOME FROM THE DEAN

Welcome to the School of Engineering, Design and Technology at the University of Bradford. I am proud of our undergraduate courses, which cover a broad spectrum of disciplines across the whole range of Engineering, Design and Technology. This brochure presents our specialist Engineering courses, some of which are now available on a part-time basis so that the range of students that can obtain an Engineering degree is now considerably enlarged.



Engineering at Bradford has entered a new, exciting phase of activity in which we emphasise the interdisciplinary nature of Engineering, Design and Technology in all its forms. Our overall course portfolio enables students who wish to major in one of the traditional Engineering disciplines, to either MEng or BEng level, to do so within an interdisciplinary environment. In addition, our courses in Chemical, Civil and Structural, Electrical, Mechanical and Automotive, Medical Engineering, Industrial Engineering and Engineering and Management are accredited by the relevant professional institutions (see course entries for details). Some of the other reasons that make studying for a degree here such a special experience, and which are regularly referred to by our graduates and external assessors from both Government and professional institutions, can be summarised as follows:

#### Excellent quality courses

Our MEng and BEng courses are accredited by the relevant professional institutions and informed by research activity and by industry. Our degrees are highly regarded by industry and independent assessors. Our industrial placements provide a practical introduction to a career in engineering, design and technology.

#### Excellent facilities

The School has one of the highest ratios of computers to students in the country, together with a wide range of specialist infrastructure and equipment to support the courses listed in this brochure. The Institution of Mechanical Engineers made several commendations in its 2007 reaccreditation of the School's Mechanical Engineering courses, including:

- The teaching of design within the courses
- Good industrial links at all levels
- Research permeating the delivery of topics taught
- Good use of computing to support taught courses
- Good early introduction to practical projects
- Evidence of significant investment in facilities

#### Friendly atmosphere

The School prides itself on the warm welcome it gives to all students and visitors to the University. Academic staff are approachable and adopt an open-door policy to student tutoring. We welcome applications from women, students with disabilities and students of all races and religions.

#### Industrial placements

All our courses are available with an optional 12 months' supervised industrial training which greatly enhances the value of your degree (see pages 6 and 7).

#### Excellent graduate employment

Our heritage of 'making knowledge work' means that we continue to respond to the needs of employers, and our graduate employment record has regularly been amongst the best in the country.

I do hope that after reading this brochure, you will want to apply for one of our courses and then come to visit us on one of our Open Days. If you do I am confident you will soon feel as enthusiastic as I do about the School and the opportunities we offer. I am also sure that if you choose to study one of our courses in this brochure, it will set you on the path to a challenging, rewarding and successful career.



#### Professor Alastair Wood

Dean of the School of Engineering,  
Design and Technology



# About the School



EDT's student-built kit car

The School of Engineering, Design and Technology is a major enterprise with an annual turnover in excess of £10m. We have approximately 1,100 undergraduate students in total with typically 20-70 students on each year of each course. We invest regularly in new equipment, facilities and technology, and we have over 200 high-specification computers available for student use with an extensive library of specialist industry-standard software, as well as a wide range of modern equipment in support of all the individual disciplines in which the School is active.

The majority of our academic staff are active researchers, and this ensures our teaching is informed by the most up-to-date knowledge. The School has substantial world-class research activity, including the Yorkshire Forward Centre of Industrial Collaboration (CIC) in Polymer Engineering, the Interdisciplinary Research Centre (IRC) in Polymer Science and Technology, and a second prestigious Yorkshire Forward-funded CIC in Wireless Technologies.

The School has been one of the Ford Motor Company's Partner Institutions for MSc programmes since 1994, with the Ford Chair of Quality Engineering in post since 1995. Recently the University had an Academic Audit by Government Assessors, as a part of which the School's teaching activities were subject to in-depth scrutiny. The result of this procedure was that **the School was awarded the highest commendation for its teaching and support of students.**

## BEng and MEng courses

All our BEng courses are of three academic years' duration with an optional year of industrial training taken between the second and third years. The BEng courses in Chemical, Civil and Structural, Electrical, Medical, Mechanical and Automotive Engineering form part of the accreditation process towards Chartered Engineer status according to the requirements of UK-SPEC, the Engineering Council (UK) requirements for the registration of professional engineers (see [www.engc.org.uk](http://www.engc.org.uk) for further information on UK-SPEC).

The Engineering Council considers MEng degrees to be appropriate for those with the ability and ambition to reach the most senior positions within the Engineering industry. As a result, this higher-level qualification provides the most direct route to Chartered Engineer status. MEng courses are four academic years' duration, and can be taken with an optional year of industrial training between the second and third years. They are identical to the corresponding BEng course for the first three years, and the fourth academic year enables us to provide both greater breadth and depth to your essential technical and management knowledge and skills. In addition, enhanced and extended design and research projects further develop an ability to integrate your studies, and to solve novel problems.

Our BEng in Industrial Engineering and BEng in Engineering and Management are accredited by the Institution of Engineering and Technology.

“ The School of Engineering, Design and Technology was awarded the highest commendation for its teaching and support of students. ”

## Teaching

The academic year is divided into two semesters (September to late-January, and late-January to May) with breaks for Christmas and Easter. You take six modules, or their equivalent, in each semester, making twelve in each year, and 36 over the three academic years of all BEng courses (48 on MEng courses over four academic years).

Each full module comprises 100 hours of student learning time, of which approximately one-third takes the form of timetabled lectures, tutorials, laboratory work, small group work or self-paced directed study using computer-aided learning materials. The remaining two-thirds is taken up with your own private study. Within this structure you should be able to find a learning style that particularly suits you.

## Assessment

Each module is assessed during the semester in which it is taught. Some modules use formal examinations, which include closed book, open book and 'seen' papers. Others are continuously assessed via technical reports, oral presentations, or computer assignments. Many modules use a combination of the two approaches.

Assessment in the first year is used to monitor your progress and to ensure you are competent to proceed to the second year. All subsequent assessment will count towards your final degree. If you are taking the Industrial Training (sandwich) year, this will be monitored and must be satisfactorily completed; in which case you will be awarded a Diploma in Industrial Studies in addition to your degree.

## Student support

Our staff are friendly and approachable. Within the first two weeks on their course, students are allocated personal tutors in groups of about six. Your personal tutor will take an interest in your academic and personal welfare, and will be your first point of contact if you have any concerns which may affect your work - be they academic, medical, financial or personal. If your tutor cannot immediately help, he or she will be able to call on the substantial welfare resources at the University, all of which are there to ensure your stay at Bradford is a successful and happy one. The University runs additional specialist tutor support (including English Language tuition) for international students.

Traditionally about 10-15% of our students in all disciplines are women, although this is a proportion we are keen to increase. **FAIRER** (Females Actively Involved in Rewarding Engineering Roles) is the School Society which offers a support and social network for our female students, and organises a significant number of events each year including teambuilding, gastronomic, social and cultural activities.

## Innovative Taster Courses

At Bradford we have a growing reputation for our work promoting science and engineering to young people via a range of exciting, hands-on projects and taster courses, e.g. our popular and highly acclaimed hovercraft project, and our annual National Science Week programme. For further details please contact: Joanne Crowther, External Relations & Marketing Officer, Tel: **01274 233871** or Email: [j.crowther@bradford.ac.uk](mailto:j.crowther@bradford.ac.uk)



Design and build a hovercraft project

## Design and Technology Courses

We also offer a suite of design and technology courses which are detailed both on our website ([www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)) and in a separate course booklet available from the Course Enquiries Office.

Tel: 0800 073 1225  
Minicom: 01274 233685  
Fax: 01274 235585  
Email: [course-enquiries@bradford.ac.uk](mailto:course-enquiries@bradford.ac.uk)

# Industrial Links and Industrial Training

Industrial relevance is a key factor in the design of our courses, all of which aim to address the practical aspects of engineering as well as the theoretical background. Our academic staff keep in touch with the needs of industry through their research, consultancy and professional institution contacts, as well as through supervising students on industrial placement. In the light of this experience, all our courses are reviewed on an annual basis to ensure they are kept up to date with the needs of employers.

## Professional Advisory Board

We have an enthusiastic Professional Advisory Board, which comprises senior industrialists from across the full spectrum of engineering, design and technology. It meets biannually at the University with the academic staff to ensure that all aspects of the School's courses and operations are up to date and relevant to the needs of employers.

## Professional Institutions

The professional engineering institutions provide an important focus for discussion on topical issues, disseminate information on new developments, and hold many regular meetings throughout the country. They also confer Incorporated and Chartered status on suitably qualified graduates with appropriate experience. The MEng and BEng degrees in Chemical, Civil and Structural, Electrical, Mechanical and Automotive, and Medical Engineering, Industrial Engineering and Engineering



and Management are designed to provide educational requirements leading towards becoming a Chartered or Incorporated Engineer. Please see the Institution websites listed on the individual course entry pages for further information on professional qualifications. All students on our engineering courses are strongly encouraged to become student members of the relevant professional institution.







# MEng/BEng in Civil and Structural Engineering\*

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)

**\* Professionally accredited by the Institutions of Civil, Structural, Highways and Transportation Engineers**

Civil Engineering is the conception, design, construction and maintenance of the built environment; this includes all our major buildings, transportation systems, water supply and wastewater disposal systems, and all the infrastructure associated with power generation and distribution. Our courses will therefore prepare you for a profession which creates the very fabric of our society. In addition, more Civil Engineering graduates have good-quality graduate track jobs six months after graduation than those of any other discipline (AGCAS, Graduate prospects and UCAS), and our own employment statistics are amongst the best in the country. A specialist Civil Engineering Advisory Board also helps to ensure our courses are in tune with the needs of the construction industry.

Further information on careers in civil engineering is available on the following websites:

- Institution of Civil Engineers: [www.ice.org.uk](http://www.ice.org.uk)
- Institution of Structural Engineers: [www.istructe.org.uk](http://www.istructe.org.uk)

## About the Courses

Both the MEng and BEng (Hons) courses are designed for those wishing to become Chartered Engineers; the MEng is an academic year longer, but offers a fast-track route to chartered status. Our Civil Engineering course provision was ranked 14th in the UK in the 2009 Guardian League Tables.

The first year of the courses covers the essential technical Civil Engineering disciplines of Structural, Materials, Geotechnical, Water and Environmental Engineering. These need to be underpinned by a firm grasp of Mathematics, Surveying and Information Technology, together with an ability to communicate in an effective manner verbally, graphically (including Computer-Aided Design - CAD) and in writing. In addition, design is a continuous thread binding our courses together, starting with the introduction of the basic concepts at this stage.

“ 100%\* of our 2009 graduates in Civil Engineering were in employment or further study within six months of graduating ”

\* Source: DLHE (Destination of Leavers from Higher Education), Higher Education Statistics Agency

The second year continues to extend your knowledge across the full spectrum of civil engineering disciplines, now including construction methods and structural design applications in steelwork and reinforced concrete. Health and Safety issues are also addressed at this stage.

Following your second year of studies you may wish to take an optional year of industrial training (see pages 6 and 7).

In the third academic year you can tailor your course to suit your own chosen career path through your personal choice of option subjects and project topic. The individual project is the equivalent of three modules and allows you to investigate in depth an aspect of Civil Engineering of particular interest to you. The common core of both courses includes project management, and focuses on group design projects similar to those undertaken by practising engineers. These utilise much of the subject matter taught elsewhere on the course, and are integrated with our four-day residential field course; a unique feature which invariably receives positive comment from external assessors.

The fourth academic year of the MEng provides further breadth and depth of study across the full spectrum of Civil Engineering, including further individual project work and a strong emphasis on management issues.

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

Study Pattern	UCAS code
3-year BEng	H220 BEng/CSE
4-year BEng including industrial placement	H221 BEng/CSE4
4-year MEng	H290 MEng/CSE4
5-year MEng including industrial placement	H291 MEng/CSE5
Any of the above including a foundation year (see page 17)	H101 BEng/Eng0



# MEng/BEng in Electrical and Electronic Engineering\*

**\* Professionally accredited by the Institution of Engineering and Technology (formerly the IEE)**

Electronics and Electrical Engineering are fundamental to the economic and social prosperity of the world. Your studies at Bradford will aim at developing an appreciation of Engineering principles and technical competence in the area of Electronics and Electrical Engineering, together with development of a wide range of personal and professional skills. Upon graduation you will have the capacity for professional growth to continue the path to Chartered Engineer (CEng) status, as the course is accredited by the Institution of Engineering and Technology (formerly the Institution of Electrical Engineers).

Electronics and Electrical Engineers have many opportunities for exciting careers ranging from designers of power systems, robots to factory automation, software developers to high-tech 'dotcom' company executives. The ability of an Engineer to think clearly and logically is widely appreciated by many other professions, and your studies may well be a stepping stone to an alternative career in accountancy, teaching, law etc. - a real foundation for life and for a lifetime of learning. For more information on careers see [www.theiet.org](http://www.theiet.org)

100%\* of our 2009 graduates in Electronics and Telecommunications were in employment or further study within six months of graduating.

*\* These statistics are derived from annually published data by the Higher Education Statistics Agency (HESA), based on those UK domiciled graduates who are available for employment or further study and whose destinations are known.*

## About the Courses

Both the MEng and BEng (Hons) courses are designed for those wishing to become Chartered Engineers; the MEng is an academic year longer, but offers a fast-track route to chartered status (see page 4, page 6 and the Institution website).

The Electrical and Electronic Engineering (EEE) course includes Analogue, Digital and Solid-state Electronics, Robotics, Power Electronics and Machines, Sensors and Actuators, Telecommunications, and Electromagnetics, with in-depth study of Mathematics and Computing in the context of Electrical Engineering. Practical skills in designing, making and testing are developed through laboratory work and Computer-Aided Design, with a substantial group project in the second year.

Following your second year of studies you may wish to take an optional year of industrial training (see pages 6 and 7).

In the third academic year you can tailor your course to suit your own individual requirements by taking modules such as power devices and applications, and by choosing options from digital signal processing, satellite communications and telecommunications networks, radio frequency and microwave design, advanced mobile and satellite communications, and sustainable energy. You will also gain skills in integrating all your studies by undertaking an individual project of your own choice.

The fourth academic year of the MEng provides further breadth and depth of study across the full spectrum of Electronics and Electrical Engineering, including further individual project work and a strong emphasis on management issues.

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

Study Pattern	UCAS code
3-year BEng	H606 BEng/EEE
4-year BEng including industrial placement	H604 BEng/EEE4
4-year MEng	H691 MEng/EEE4
5-year MEng including industrial placement	H693 MEng/EEE5
Any of the above including a foundation year (see page 17)	H101 BEng/Eng0



# MEng/BEng in Electronic, Telecommunications and Internet Engineering\*

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)

## \* Professionally accredited by the Institution of Engineering and Technology (formerly the IEE)

Electronics, Telecommunications and Internet Engineering are fundamental to the economic and social prosperity of the UK. Your studies at Bradford will aim at developing an appreciation of engineering principles and technical competence in the fast-expanding area of Electronics, Telecommunications and Internet Engineering, together with development of a wide range of personal and professional skills. Upon graduation you will have the capacity for professional growth to continue the path to Chartered Engineer (CEng) status, as the course is accredited by the Institution of Engineering and Technology (formerly the Institution of Electrical Engineers).

ETIE graduates have many opportunities for exciting careers, ranging from designers of telecommunication systems used in service industries such as the police to designing the communication system to control remote robots, from designing internet-based software to running high-tech 'dotcom' companies. The ability of an Engineer to think clearly and logically is widely appreciated by many other professions, and your studies may well be a stepping stone to an alternative career in accountancy, teaching, law etc. - a real foundation for life and for a lifetime of learning. See [www.theiet.org](http://www.theiet.org)

100%\* of our 2009 graduates in Electronics and Telecommunications were in employment or further study within six months of graduating.

\* These statistics are derived from annually published data by the Higher Education Statistics Agency (HESA), based on those UK domiciled graduates who are available for employment or further study and whose destinations are known.

## About the Courses

Both the MEng and BEng (Hons) courses are designed for those wishing to become Chartered Engineers; the MEng is an academic year longer, but offers a fast-track route to chartered status (see page 4, page 6 and the Institution website).

The Electronic, Telecommunications and Internet Engineering (ETIE) course includes Telecommunications, Mobile Networks, Digital Electronics, Internet Engineering, Embedded Systems, Signal Processing and Electromagnetics, with in-depth study of Mathematics and Computing in the context of Electronic Engineering. Practical skills in designing, making and testing are developed through laboratory work and Computer-Aided Design, with a substantial group project in the second year.

Following your second year of studies you may wish to take an optional year of industrial training (see pages 6 and 7).

In the third academic year you can tailor your course to suit your own individual requirements by taking modules such as advanced mobile and satellite communications and antennas and mobile propagation, and by choosing options from digital signal processing, satellite communications and telecommunications networks, radio frequency and microwave design, power electronics, and sustainable energy. You will

also gain skills in integrating all your studies by undertaking an individual project of your own choice.

The fourth academic year of the MEng provides further breadth and depth of study across the full spectrum of Electronics, Telecommunications and Internet Engineering, including further individual project work and a strong emphasis on management issues.

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

Study Pattern	UCAS code
3-year BEng	H695 BEng/ETIE
4-year BEng including industrial placement	H690 BEng/ETIE4
4-year MEng	H692 MEng/ETIE4
5-year MEng including industrial placement	H694 MEng/ETIE5
Any of the above including a foundation year (see page 17)	H101 BEng/Eng0

“ 100%\* of our 2009 graduates in Electronics and Telecommunications were in employment or further study within six months of graduating ”

\* Source: DLHE (Destination of Leavers from Higher Education), Higher Education Statistics Agency



# MEng/BEng in Mechanical Engineering\*

# MEng/BEng in Mechanical and Automotive Engineering\*



**\* Professionally accredited by the Institution of Mechanical Engineers**

Mechanical Engineering combines the skills needed to conceive, design and produce the moving parts, components and machinery used in every aspect of everyday life. Modern Mechanical Engineers use sophisticated computer-aided design and engineering skills to ensure their products are reliable, efficient and economic.

With the ever-increasing demand for personal transport and mobility in a sustainable environment, there are now tremendous opportunities for graduates who can combine vehicle design with state-of-the-art knowledge of engineering and manufacture. The automotive industry has led the world in innovation for almost a century, and its operations

are now firmly integrated with computer-aided design, manufacturing and engineering. Our courses in Mechanical and Automotive Engineering provide skills, knowledge and understanding in these areas, along with the principles, computer-based technologies and innovative design processes associated

with current and future generations of machines and road vehicles.

Further information on careers in Mechanical and Automotive Engineering is available on the following website:

■ Institution of Mechanical Engineers:  
[www.imeche.org](http://www.imeche.org)

“ 89.5%\* of our 2009 graduates in Mechanical and Automotive Engineering were in employment or further study within six months of graduating ”

\* These statistics are derived from annually published data by the Higher Education Statistics Agency (HESA), based on those UK domiciled graduates who are available for employment or further study and whose destinations are known.

Course Title	Study Pattern	UCAS code
Mechanical Engineering	3-year BEng 4-year BEng including industrial placement 4-year MEng 5-year MEng including industrial placement	H300 BEng/ME H301 BEng/ME4 H305 MEng/ME H306 MEng/ME5
Mechanical and Automotive Engineering	3-year BEng 4-year BEng including industrial placement 4-year MEng 5-year MEng including industrial placement	H330 BEng/MAE H331 BEng/MAE4 H392 MEng/MAE H393 MEng/MAE5
Any of the above with Foundation Year (see page 17)	MEng/BEng with Foundation Year	H101 BEng/Eng0

# MEng/BEng in Mechanical Engineering\*

## MEng/BEng in Mechanical and Automotive Engineering\*

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)

### About the Courses

Five main objectives underpin all academic years of these courses. Firstly, we aim to provide you with the Engineering principles and theory necessary to understand how machines and vehicles work. Secondly, we involve you in the application of these principles and theory to actual components and system design. Thirdly, you get a full understanding of modern Computer-Aided Design and Manufacture Technologies, using industry-standard Computer-Aided Engineering tools. Fourthly, we help you to develop your business, interpersonal and managerial skills within the context of the global quality standards which govern industry and commerce worldwide. Finally, we aim to develop skills in project planning and management through the many “hands-on” projects which form an important part of the courses.

Both the MEng and BEng (Hons) courses are designed for those wishing to become Chartered Engineers; the MEng is an academic year longer, and fully meets the educational requirements towards becoming a chartered engineer.

The first year of the courses provides basic knowledge in Mechanics, Electronics, Computer-Aided Design, Materials, Mathematics, and Manufacturing, and develops key skills in Information Technology, Communications and Interpersonal

Skills. The middle year further develops your core Mechanical Engineering skills and introduces Design for Manufacture and Assembly which is vitally important for success in today’s global manufacturing environment.

If you undertake the “sandwich” four-year course (see pages 6 and 7), your third year will be spent in paid employment in industry, putting into practice the skills you have learnt in your academic studies. This “sandwich” year is an excellent opportunity for you to gain practical experience, to develop maturity of outlook, and refine your ideas about your future career – as well as boosting your CV.

The third year (final year of the BEng courses) develops your specialised knowledge in Mechanical and/or Automotive Engineering. The final-year project takes up one quarter of your time, allowing you to integrate different aspects of the course into an investigation of an area of particular interest to you.

The fourth academic year of the MEng provides further breadth and depth of study across the full spectrum of Mechanical and/or Automotive Engineering, including further individual project work and a strong emphasis on management issues.

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)



# MEng/BEng in Medical Engineering\*

\* *Professionally accredited by the Institution of Mechanical Engineers*

Technological innovation in the field of Medicine and Healthcare is accelerating at an enormous pace. The modern hospital is now the centre of a technologically sophisticated healthcare system, and this requires equally technologically sophisticated staff. Engineering professionals have become intimately involved in many aspects of medicine. This is an established course with excellent career prospects, designed to meet the growing needs from industry and the health service for bright graduates.

Further information on the role of Medical Engineers is available on the following websites:

- Association of Institutions concerned with Medical Engineering (AIME): [www.aime.org.uk](http://www.aime.org.uk)
- Institute of Physics and Engineering in Medicine (IPEM): [www.ipem.ac.uk](http://www.ipem.ac.uk)
- Institution of Mechanical Engineers (IMechE): [www.imeche.org](http://www.imeche.org)

## About the Courses

Both the MEng and BEng (Hons) courses are designed for those wishing to become Chartered Engineers; the MEng is an academic year longer, but offers a fast-track route to chartered status (see page 4, page 6 and the IMechE website).

Our degrees are modular and several departments contribute to the teaching. About 80% of the modules are taught within the School of Engineering, Design and Technology. Subjects such as Biology and Physiology are provided by the University's Schools of Life Sciences and Health Studie



“ 85.5%\* of our 2009 graduates in Medical and Healthcare Technology were in employment or further study within six months of graduating ”

\* Source: DLHE (Destination of Leavers from Higher Education), Higher Education Statistics Agency

Listed below are some examples of the medical and engineering topics studied:

**Biomechanics** - the study of skeletal movement, the flow of body fluids, muscle action forces.

**Biomaterials** - natural tissues and the development of biocompatible materials for tissue replacement.

**Physiological systems** - human physiology, physiological measurement and simulation.

**Rehabilitation Engineering** - the design and development of therapeutic and rehabilitation devices.

**Prosthetics and Orthotics** - joint replacement, limb replacement and functional assistance.

**Implant design** - the design of implantable devices, including manufacturing and surgical considerations.

**Medical Imaging** - including X-ray radiography, diagnostic ultrasound and magnetic resonance.

### Other core modules:

- Cell and Microbiology for Engineers
- Tissue Engineering and Wound Repair
- Genomic Coding
- Clinical Signals
- Infection Control
- Biotribology

Following your second year of studies you may wish to take an optional year of industrial training (see pages 6 and 7).

In the third academic year of these courses you can tailor your course to suit your own chosen career path through your personal choice of option subjects and project topic. The individual project is the equivalent of three modules and allows you to investigate in depth an aspect of Medical Engineering of particular interest to you.

The fourth academic year of the MEng provides further breadth and depth of study across the full spectrum of Medical Engineering, including further project work and a strong emphasis on management issues.

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

Study Pattern	UCAS code
3-year BEng	H1B1 BEng/MedE
4-year BEng including industrial placement	H1BC BEng/MedE4
4-year MEng	HB11 MEng/MedE
5-year MEng including industrial placement	HB1C MEng/MedE5
Any of the above including a foundation year (see page 17)	H101 BEng/Eng0

# BEng in Industrial Engineering\*

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)



## \* Professionally accredited by the Institution of Engineering and Technology (formerly the IEE)

Industrial Engineering focuses on the systems and methods that provide products and services for organisations and their customers throughout the world. Industrial Engineers define, build, operate and improve production processes that transform resources into finished products. However, today, the Industrial Engineer is just as likely to be found working in a service industry, as it is increasingly being recognised that their skills are just as applicable to the problems of organisations that provide services. As companies face the challenges and opportunities offered by trading in an ever-more competitive global market, the demand for Industrial Engineers can only rise.

For those wishing to embark upon careers with an international focus, studying Industrial Engineering is likely to have special attraction, as the degree of Industrial Engineering is widely recognised throughout the world, especially in the United States where the Institute of Industrial Engineers is one of the largest professional organisations. For further information on the Institute of Industrial Engineers: [www.iienet.org](http://www.iienet.org)

A key aspect of Industrial Engineering is developing the 'big picture' - analysing the complex relationships between the physical, human, social and economic subsystems that form modern organisations, and understanding how change in one area can have consequences for others. The Industrial Engineer needs to have the vision to look beyond what exists today in order to identify the business needs of tomorrow.

Because of the broad-based knowledge and expertise they acquire, Industrial Engineers are able to function effectively across a wide spectrum of activities ranging from strategic business planning to detailed task design. As a result of this, Industrial Engineers are particularly well qualified to rise to positions of leadership.

## About the Course

The first year of the programme provides a foundation of knowledge and tools in the areas of engineering technology, manufacturing systems, materials technology, mathematics, economics and information technology.

The second year builds on the knowledge gained through the study of technology operations management, financial management, product design, statistics, electronics, health and safety management. There is also an element of choice with several optional modules.

Following your second year of studies you may wish to take an optional year of industrial training (see pages 6 and 7).

In the final year of the course all students prepare an in-depth project on a subject area of their choice, which is supervised by a member of staff. The project enables you to focus on a particular topic that is of interest to you and can often be related to your career ambitions. The final year also involves the study of modules in quality assurance and project management, with a range of option modules including; reliability engineering, project management, product design, and service operations management.

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

Study Pattern	UCAS code
3-year BEng	H753 BEng/IE
4-year BEng including industrial placement	H750 BEng/IE4
4/5-year BEng with foundation year (see page 17)	H101 BEng/Eng0

# BEng in Engineering and Management\*

\* *Professionally accredited by the Institution of Engineering and Technology (formerly the IEE)*

With the growing complexity in the business processes of manufacturing and service companies, modern organisations have an increasing need for graduates able to combine an understanding of engineering principles and technology with the human skills needed to manage people.

This degree course is therefore designed to bridge the gap between engineering and management by combining a comprehensive engineering education (the technical side) with a business and commercial education (the managerial side).

The application and advancement of engineering knowledge lies at the very heart of wealth creation in society. Central to achieving this is the successful management of organisational change arising from the introduction of new technologies. This requires an appreciation not only of the physical dimensions of technological systems, but also their business and social interfaces. With this in mind, the course aims to provide its graduates with a true multidisciplinary experience.

Useful Websites:

- Engineering Council UK: [www.engc.org.uk](http://www.engc.org.uk)
- Institution of Mechanical Engineers [www.imeche.org](http://www.imeche.org)
- Institution of Civil Engineers: [www.ice.org.uk](http://www.ice.org.uk)
- Institutions of Electrical and Electronic Engineers: [www.ieee.org.uk](http://www.ieee.org.uk) [www.theiet.org](http://www.theiet.org)

## About the Course

The course is comprised of both core and option modules. The core modules are taken by all students and provide knowledge in fundamental engineering and management topics. A key feature of the course is the range of option modules available. This allows students to choose modules that are of interest

to them and to effectively design a course of study that is directly related to their career aspirations. The range of option modules also permits students to follow either a broad course of academic study or to specialise in one of the main professional areas of Mechanical, Electrical or Civil engineering.

The first year of the course aims to provide a foundation of knowledge and skills upon which more advanced studies will be developed in subsequent years. As such the first year involves the study of Mathematics, Mechanics, Materials and Information Technology. This is augmented by the study of management modules in Economics, Marketing and Organisational Behaviour.

The second year involves the study of Operations Management, Statistics, Computer Modelling, and Health and Safety Management. There is also a greater element of choice with a wide range of option modules. Following your second year of studies you may wish to take an optional year of industrial training (see pages 6 and 7).

The final year involves the study of core modules in Quality Assurance and Project Management, with the majority of study chosen by students themselves through a broad range of specialist engineering and management option modules. The culmination of your final-year academic studies is the preparation of an in-depth project on a topic of your choice related to the field of engineering and management. The project enables you to focus on a subject that is of particular interest to you and can often be related to individual career ambitions.

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

Study Pattern	UCAS code
3-year BEng	HND2 BEng/EnMgt
4-year BEng including industrial placement	HN1F BEng/EngM
4/5-year BEng with foundation year (see page 17)	H101 BEng/Eng0



# Engineering Foundation Year (+ International)

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)



*Recognised entry qualification for any professionally accredited undergraduate course.*

Study Pattern	UCAS code
12 months	H101 BEng/Eng0
12 months (International)	H102 BEng/EnInt

## Special Features

- Our Foundation-Year course is designed for candidates without the Mathematics or Science qualifications necessary for direct entry to your preferred undergraduate course.
- The Engineering Foundation Year (International) is designed to prepare students with appropriate qualifications so that they can enter into stage one of a CEng-accredited Engineering programme. The International variant is aimed at students who satisfy the academic requirements but who only have IELTS 5.5 English language qualification and do not quite meet the University's requirement for IELTS 6.0 or the equivalent.
- In this additional preliminary year of study, you will be given the basic grounding in Mathematics and Physical Science which you will need before progressing to the first year of your undergraduate course.
- Successful completion of the Foundation Year at either BEng or BSc level guarantees progression to any of the School's BEng or BSc courses as appropriate.

If you are unable to meet the normal entry requirements for our undergraduate Engineering (MEng/BEng) courses, but have studied to A-level standard or equivalent, then the Foundation Year is the course for you. For example, you may be taking A/AS-level qualifications but not including A/AS-level Mathematics, or you may have vocational A levels without any additional mathematics qualification. Alternatively if you are taking a BTEC it may not be in a discipline sufficiently closely related to your proposed future course. Provided you hold GCSE passes at grade C or above in English, Mathematics and a Physical Science, in all these cases the Foundation Year course will be able to build on your existing qualifications so as to prepare you for your undergraduate course.

## About the Course

The main features of the Foundation Year are the study of Physics, Mechanics and Mathematics to a level which will enable you to take maximum advantage of your undergraduate course. Indeed in many respects the Foundation Year offers the optimum entry qualification for our undergraduate courses, since it focuses on the Mathematics and Science of direct relevance to Engineering Design and Technology, and teaches them in the context of these disciplines.

Semester 1 provides a firm grounding in the core subjects which form the basis of any Engineering course; these include Mathematics, Mechanics, Physics, Materials and ICT. A further module on the Engineering Profession provides examples of the work undertaken by various types of Professional Engineer to help demonstrate the practical application of the Engineering

principles being taught in the core subjects.

Modules studied in Semester 1 of the International variant are Mathematics, Mechanics and Physics, to about A2 level and English for Engineers to IELTS 6.0 level. There is also a module designed to introduce you to the use of information and communication technologies within the context of the engineering profession.

In Semester 2 you study further Mathematics and Mechanics and carry out an interdisciplinary engineering project. In both semesters you also undertake associated laboratory work to demonstrate the principles introduced in the lecture and tutorial sessions. Foundation-year teaching staff appreciate the problems which people coming from different learning backgrounds may face, and are there to offer help.

## Progression

Your studies in the Foundation Year will give you an insight into the different branches of Engineering, Design and Technology, so that you can better select which undergraduate course you would subsequently like to study. Successful completion of the Foundation Year to BEng level (55% in mathematics, 55% in mechanics or physics for electrical engineering, and 55% overall) will therefore qualify you to enter the first year of any of the undergraduate courses described on the following pages; alternatively if you pass the Foundation Year to BSc level (40% overall) then you will be eligible for any of the School's BSc courses (see separate brochure or our website).

Detailed course outlines, example timetables and student views can be inspected at [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

# Admissions for Full-time Courses

## Basic Procedure

If you think one of our MEng or BEng full-time courses suits your needs, the next step is to include us in your UCAS application (log on to [www.ucas.com](http://www.ucas.com)). Select the relevant UCAS code for the course content and pattern you think you are most likely to follow (see the specific course information on pages 8 - 17). If you are not sure at this stage whether to include industrial training in your course, we suggest that at this stage you do, as when dealing with funding authorities it is always easier to shorten your course than to lengthen it. The UCAS code for Bradford is **BRADF B56**; there is no campus code.

Access to the MEng courses can be obtained either by direct entry (i.e. from your application), or by internal transfer from a BEng course based upon performance on your course; certainly transfer between corresponding BEng and MEng courses at the end of each academic year is quite normal. In addition all applications for MEng courses will automatically be considered for the corresponding BEng course; it is not necessary to apply for both courses.

See inside front cover for contact details.

## UK entrance qualifications

If you are offering any combination of GCE A levels, Vocational A levels\*, AS levels, and Scottish Framework qualifications\*, our typical offers are:

### Chemical Engineering:

**For MEng – 300 points**, including a minimum grade B in A-level Mathematics and in Chemistry.

**For BEng – 260 points**, which must include:

A-level Mathematics and A-level Chemistry both with a minimum grade C.

### All other courses:

**For MEng – 300 points**, including a minimum grade B in A-level Mathematics.

**For BEng – 240 points**, which must include either

- A-level Mathematics, minimum grade C, or
- AS-level Mathematics and a science A level, both with a minimum grade C



We also require English, Mathematics and a physical science GCSE at least at C grade.

\* *Applicants offering Vocational A levels or Scottish Framework qualifications should contact the Admissions Secretary for a specific interpretation of the mathematics requirement.*

If you are offering EDEXCEL/BTEC our typical offers are:

**For BEng: merit, merit, merit.**

**For MEng: merit, merit, distinction.**

We also welcome applicants with suitable ONC, OND, accredited Foundation courses and ACCESS qualifications.

## International Entrance Qualifications

The University has a long history of welcoming students with Irish Highers, International Baccalaureate, and a wide range of equivalent overseas qualifications. Applicants offering qualifications such as these are considered on an individual basis. If your first language is not English we normally require you to obtain a minimum score of IELTS band 6.0, or an equivalent English language qualification.

## Direct Entry

We will consider you for direct entry to the second year of our BEng courses if you hold a good HND, or a Diploma from a Polytechnic or University in Malaysia, Singapore, or Hong Kong in a relevant discipline. Students offering Advanced Standing qualifications may be considered for direct entry to the third year of a BEng course by special arrangement.

## Foundation Year

If you are not offering appropriate qualifications for direct entry to the undergraduate courses, or if your grades fall short of those listed above, then we may be able to offer you a place on our preliminary Foundation Year (see details on page 17). Entry requirements for the Foundation Year vary according to the qualifications on offer, but are made at a lower level than required for direct entry to the first year of undergraduate courses (e.g. typically **160 UCAS points**). In all cases, however, you must have studied at least to A-level standard and hold GCSE passes (or equivalent) in English, Mathematics and a physical science at grade C or above. It is suitable for international students who only have IELTS 5.5 or the equivalent.

# Admissions for Full-time Courses

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)



## Deferred Entry

We will be very pleased to consider an application from you if you wish to defer entry to gain experience to aid your personal development. However, do look carefully at our sandwich courses to see whether a year of industrial experience integrated into your course might suit you better.

## Students with Disabilities

The University of Bradford has always encouraged applications from students with disabilities, whose applications are considered on the same academic grounds as are applied to all candidates.

If you indicate a disability on your UCAS form, you will be invited to discuss your particular requirements etc. with the Disability Service:

Tel: **01274 233739**  
Minicom: **01274 235094**  
Fax: **01274 235340**  
Email: [disabilities@bradford.ac.uk](mailto:disabilities@bradford.ac.uk)

## Admissions Procedure

We admit typically between 20 and 70 students onto each of our courses every year. Offers are made on the basis of

the information on your UCAS form, and each application is considered on its own merits. We recommend all candidates come to visit the School on one of our Applicant Visit Days (special Open Days for UCAS applicants) if at all possible. This will enable you to see our specialist accommodation and modern facilities, and tour the campus. Our current students take pleasure in showing candidates around the University and giving you their views on their experience here. You will also be able to discuss your application with a member of staff; this will help us to assess your suitability for the course for which you have applied and offer appropriate advice in this respect. However, please note that your offer is made following receipt of your UCAS form and is not dependent on attending an Open Day.

Remember applications for all our full-time courses must be made through the UCAS scheme ([www.ucas.com](http://www.ucas.com)), whilst applications for the part-time courses should be made to the School direct.

## Contact

The Admissions Office  
School of Engineering, Design and Technology  
Tel: 01274 234567 / 233877  
Fax: 01274 234111  
Email: [ug-eng-enquiries@bradford.ac.uk](mailto:ug-eng-enquiries@bradford.ac.uk)  
Website: [www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)

# Part-time Foundation Degree in Engineering Technology

## In partnership with FE Colleges and industry

The Foundation Degree is a National Qualification intended for students who are already in, or looking for, employment in areas where there is a demand for updated skills and knowledge. Foundation Degrees are vocationally focused higher education qualifications which equate to two-thirds of an Honours degree in terms of academic achievement. Work-based learning is a major part of a Foundation Degree, and is underpinned by academic study. **If you feel that a full-time degree course isn't applicable or would mean you giving up work, this three-year part-time course may be the solution.** Alternatively, if you have a full or partially completed HNC/HND, you may be able to 'bridge' or 'top-up' to Foundation Degree.

NB. ALL Engineering Foundation Degrees now have a distance learning option.

## About the Course

The Foundation Degree in Engineering Technology offers the opportunity to update skills and knowledge in a way that ensures what you learn academically

can be applied through work-based learning and project-based assessment. In addition, Foundation Degree graduates can progress to a part-time BEng degree at the University of Bradford (see page 21). This is a University of Bradford validated degree in collaboration with partner Colleges.

See our website, or contact The Part-time Admissions Office on **01274 234506** for the College contact details.

The six strands of the course outlined below show the different pathways you can take. All strands will provide you with knowledge in the core areas of ICT, business and financial management. In addition you will acquire technical skills based on mathematics and science which underpin the specialist aspects of your chosen course/strand:

- **Manufacturing Engineering:** modern manufacturing methodologies, processes, systems and best practice.
- **Electrical Engineering:** power generation, drives, and the control of industrial systems.

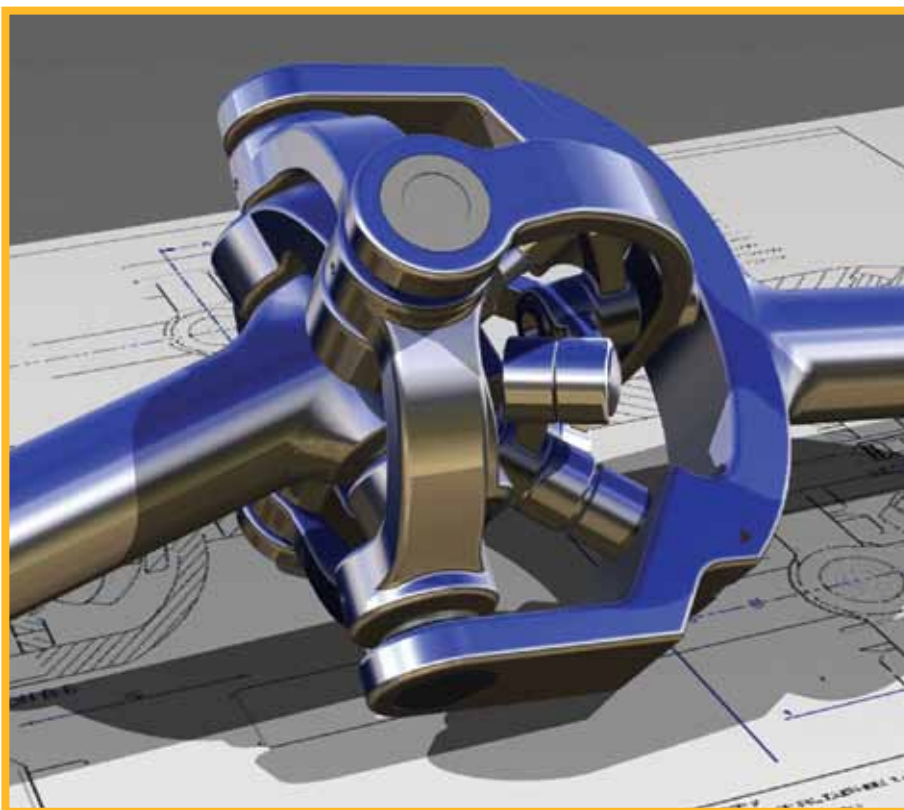
- **Electronic Engineering:** telecommunications, networks and devices.
- **Plant & Process Engineering:** control of capital plant and processes, quality and environmental issues.
- **Computer-Aided Engineering:** design using modern hardware and software, protocols and computer-aided manufacture.
- **Mechanical Engineering:** modern design and analysis techniques for mechanical systems.

In addition the University is willing to consider developing additional strands with new partners. Contact the School for further information - details on inside of front cover.

Students may wish to attend one day a week, or alternatively, through distance learning while working in their respective companies. Employer involvement comes through the support and sponsorship of students and provision of work-based learning facilities. The organisation profits from the learning outcomes of the work-based learning. The course uses a variety of teaching and assessment methods to ensure that your learning experience is vocational and very relevant to the world of work. The course comprises two stages, which are taken over the three years. You will study 120 credits in each stage, of which 40 credits will be obtained by work-based learning. The flowchart on page 22 indicates the course structure and entry requirements.

The Bradford Foundation Degree in Engineering Technology is now well established, and in the 2005 quality audit the Quality Assurance Agency for Higher Education (QAAHE) expressed full confidence in:

- the academic standards and the achievements of students.
- the quality of the students' learning opportunities.



# Part-time BEng in Mechanical Engineering\*, BEng in Manufacturing Engineering\*, and BEng in Electrical and Electronic Engineering\*

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)

**\* Professionally accredited by the Institution of Mechanical Engineers or the Institution of Engineering and Technology**

These courses provide the opportunity for holders of a Foundation Degree or equivalent (see page 20) to top up their existing qualification by taking the final year of a Mechanical, Manufacturing or Electrical and Electronic Engineering BEng degree on a part-time basis. For details of course content see pages 10, 12 and 13, or visit our website [www.eng.brad.ac.uk](http://www.eng.brad.ac.uk)

These courses are therefore intended primarily for individuals currently working in an engineering-related role and for whom full-time education is not an option. Thus students have been attracted from a range of backgrounds including automotive sub-assembly and component suppliers, electronics silicon chip manufacturing, industrial fastenings technologies and electrical generation.

## Teaching, Learning and Assessment Methods

These courses are unique amongst those provided by UK universities since they deliver the final year of a degree in Mechanical Engineering, Manufacturing Engineering or Electrical and Electronic Engineering (see pages 10, 12 and 13) over a flexible timescale.

Modules are taught through a blend of residential teaching days and distance or remote learning over the same timeframe as for full-time students. The difference for part-time students is that fewer modules are delivered in each semester to keep the workload manageable. In addition, modules can be deferred to further lighten the learning burden if other commitments dictate.

Innovative internet-based learning technologies are employed to assist the teaching delivery and contact with lecturers. Blackboard is an ever-evolving virtual learning environment (VLE) package that is used to provide module notes, post announcements, hold module discussion forums and facilitate online assessment. Blackboard can also be used to provide a virtual classroom facility, allowing module tutors to conduct seminars, explain presentation slides and hold discussions with students, whilst a digital drop-box manages coursework. Additional services available to students include access to the University Library and all its electronic facilities, all the School's extensive state-of-the-art computer applications packages, etc.

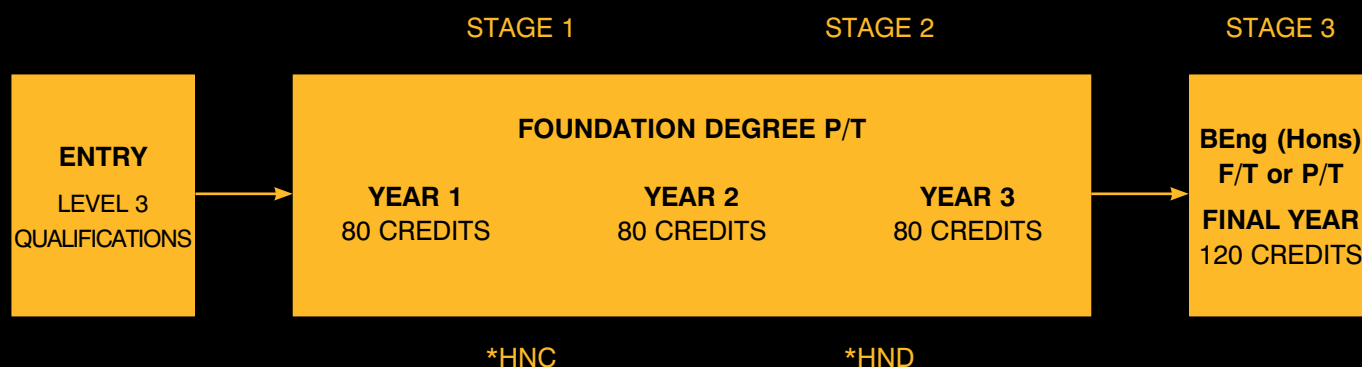
Students will make direct contact with lecturing staff through residential teaching days. Typically, there are three-four residential teaching days throughout a semester per module, which occur on weekdays; a maximum of three modules are taken in any single semester. In addition to the teaching dates, the module examinations will take place at the University within the summer and winter examination periods.

These courses include a project module which is agreed between your tutor, yourself, and your employer. This enables work-based projects to be identified that are directly relevant to the interests of both the employer and student. Thus employers are able to benefit from the full resources of the University, whilst simultaneously obtaining specific training for the student. This may take the form of investigating a new technology, optimisation of an existing system, or the management of a particular manufacturing facility; the scope for industry-based projects is wide and varied. Your University tutor is available at all times via email to help with technical back-up, planning, and project management.



# Admissions for Part-time Courses

## Foundation Degree in Engineering Technology – Progression Route



\*\* MIN 'ENHANCED PASS' REQUIRED FOR DIRECT ENTRY

\* APEL/BRIDGE MAY APPLY.

### Basic Procedure

Apply to the School direct for these courses using the contact details given on this page and the inside front cover. Alternatively log on to our website (select undergraduate courses, then follow the links) where more detail on these courses together with an online application form can be found. If you wish to contact one or more of the colleges participating in the delivery of the Foundation Degree directly, their contact details are also available on the undergraduate part-time area of our website.

### Foundation Degree – Entry Requirements

Since the course is vocational there are no specific entry requirements, and special arrangements can be made for individual cases. Nevertheless, for entry to the first year you should typically have one of:

- An Advanced Modern Apprenticeship at Level 3,
- GCE A Levels or Vocational A Levels,
- NVQs or other Level 3 qualifications,
- National Certificate/Diploma.

In addition you may be able to gain a place through Accreditation of Past Experience and Learning AP(E)L – even if you have no traditional qualifications.

Candidates holding an HND can normally progress directly to Stage 2 of the course which starts in the middle of the second year. If you have a good HNC in a relevant discipline, then direct entry to the third year is normally possible. The flowchart illustrates graphically the relationship between entry qualification, entry point, and subsequent progression.

### BEng – Entry Requirements

These courses are designed to build on a relevant Foundation Degree, which is equivalent to two-thirds of a traditional three-year BEng degree. Typical entry qualifications are therefore:

- A Foundation Degree with a minimum overall mark of 55% at Stage 2,
- An HND in a relevant discipline plus an appropriate bridging course (which we can provide),
- Individual assessment of qualifications and experience.

The flowchart indicates visually the alternative entry routes to these courses.

### Students with Disabilities

The University of Bradford has always encouraged applications from students with disabilities, whose applications are considered on the same academic grounds as are applied to all candidates. If you indicate a disability on your Application Form, you will be invited to discuss your particular requirements etc. with the Disability Service:

Tel: **01274 233739**  
 Minicom: **01274 235094**  
 Fax: **01274 235340**  
 Email: [disabilities@bradford.ac.uk](mailto:disabilities@bradford.ac.uk)

### Contact Details

Part-time Admissions Office  
 Tel: 01274 234506  
 Fax: 01274 234525  
 Email: [pt-eng-enquiries@bradford.ac.uk](mailto:pt-eng-enquiries@bradford.ac.uk)

Consistently ranked highly for graduate employment, with a history spanning the last century, the University of Bradford's values are built on firm foundations with the strong ethos of 'Making Knowledge Work™'



## Strong roots

Back in 1966, when England were winning the World Cup, Bradford Institute of Technology became the University of Bradford and Harold Wilson, the long-serving British Prime Minister, became our first Chancellor. Over 40 years on and the University has moved from strength to strength.

**1882:** The University started out as Bradford Technical College. Bradford was the textile capital of the world, its renowned products reaching the four corners of the globe

**1966:** The University was granted its Royal Charter which makes it one of the 'old' universities

**2005:** In April 2005, Imran Khan was appointed as Chancellor of the University of Bradford succeeding Baroness Betty Lockwood on her retirement

**2006:** The University celebrated its 40th anniversary and the opening of a grand new front entrance to the campus; the vibrant Atrium in the Richmond Building, a magnificent student space

## Developing the Campus

The University is constantly investing in the future of its students through world-class teaching and facilities. Recent improvements to the campus include:

- 'Unique', the superb fitness and lifestyle facility on the city campus
- The new build at the School of Management which melds the best of historic Victorian and modern architecture
- A purpose-built extension for the School of Health Studies with state-of-the-art new facilities

- The new £7m Student Central building housing the Students' Union and learning facilities, linking in to the library and IT facilities

- The Green student village which will house its first-ever residents in September 2011

## Leading-edge Technology and IT Facilities

Laboratories, study areas, computer clusters and other facilities are being constantly developed. Bradford really excels when it comes to IT, with one of the highest ratios of PCs to students in the country. You can have free internet access wirelessly from all the libraries, foyers and social spaces of all major buildings, and the PCs in the Richmond Building Atrium are available 24/7. You will also have access to the campus network from your bedroom in The Green student accommodation.

The J B Priestley Library at the heart of the city campus links up with the Learning Mall of the Student Central building. The Library is open 24 hours a day from Monday to Friday during term times, and until 9pm at weekends, and provides extensive collections of books and journals as well as access to a wide range of electronic information services. PCs are available throughout the building. Most library services are accessible via the internet.

## Accommodation

You will be guaranteed a place at our award-winning eco-friendly new student village, The Green, during your first year. Buildings are arranged as a small village, with rooms available in apartments or townhouses. Every building meets the highest standards of

sustainability, meaning it costs very little to heat and light. The Green will have a real community feel. It is set in beautiful landscaped gardens, with places to relax and socialise. For more details about what's available for our students, and for costs, visit [www.bradford.ac.uk/accommodation](http://www.bradford.ac.uk/accommodation)

In subsequent years most students choose to live in privately rented accommodation. Student accommodation is cheaper, easier to find and more conveniently located in Bradford than in most other University cities. Many students live within five minutes of their lectures! Unipol Student Homes ([www.unipol.org.uk/bradford](http://www.unipol.org.uk/bradford)) offers a free advice service to students, and is a good way of finding a good-quality, safe place to live at a reasonable cost.

## Our City Campus

Most departments are on the city campus, as is the sports centre, the library, the Students' Union, Theatre, Music Centre and Art Gallery, and student accommodation. The new Student Central building houses the bar, entertainment facilities, Students' Union offices, welfare departments, Career Development Services, a print shop, and learning facilities. The Students' Union runs over 60 clubs and societies, and has a shop on campus. You can enjoy café bars around the campus, offering a range of facilities including food, hot and cold drinks, pool tables, video games, and a big screen TV. The newly refurbished 'Unique: Fitness & Lifestyle' has a 25-metre swimming pool, climbing wall, and a new gym with the very latest in fitness equipment. The Richmond Building Atrium is a popular place to relax, and adjacent to this, student support services can be found in The Hub.

# City of Bradford

Friendly and familiar but with a lively urban centre, Bradford is the city that has it all. The cosmopolitan mix, booming social scene and host of thriving cultural venues create a vibrant modern atmosphere that sits perfectly alongside the imposing architecture of the nineteenth century. Bradford is set amongst some of the most beautiful countryside in England. At the same time it is one of the most affordable places to live. Bradford lies right in the middle of the country, with easy links by road, rail and air north to Scotland, west to Manchester and Liverpool, east to Leeds and York, and south to London.

The University campus is situated in the heart of the city's 'west end' – with many new pubs, clubs and restaurants within a few minutes' walk from the halls of residence. Bradford can also offer a thriving cultural scene, including the National Media Museum, with its huge IMAX screen, as well as galleries, theatres and museums of art, crafts and technology. Further information of all that is on offer in Bradford can be found at [www.visitbradford.com](http://www.visitbradford.com), and at [www.bradford.ac.uk/bradford](http://www.bradford.ac.uk/bradford)

## Eating Out

As every student will soon discover Bradford has earned the right to be famous for its curries. There are over 20 curry houses within five minutes' walk of the campus, where you can find a good meal for around £5. There are many other inexpensive restaurants, shops and supermarkets nearby, as well as the excellent value markets, specialist shops and chain stores in the city centre.

## Sport

Local sporting clubs are always keen to welcome student members, not forgetting the University's own range of sporting teams and activities. If you enjoy watching rather than participating, there's football at Bradford City and Super League rugby with Bradford Bulls.

## Spectacular Surroundings

Bradford is surrounded by some of the most spectacular and picturesque countryside anywhere in the country. The Pennines, Yorkshire Moors, Yorkshire Dales, Lake District and Derbyshire Peak District are all within easy travelling distance.

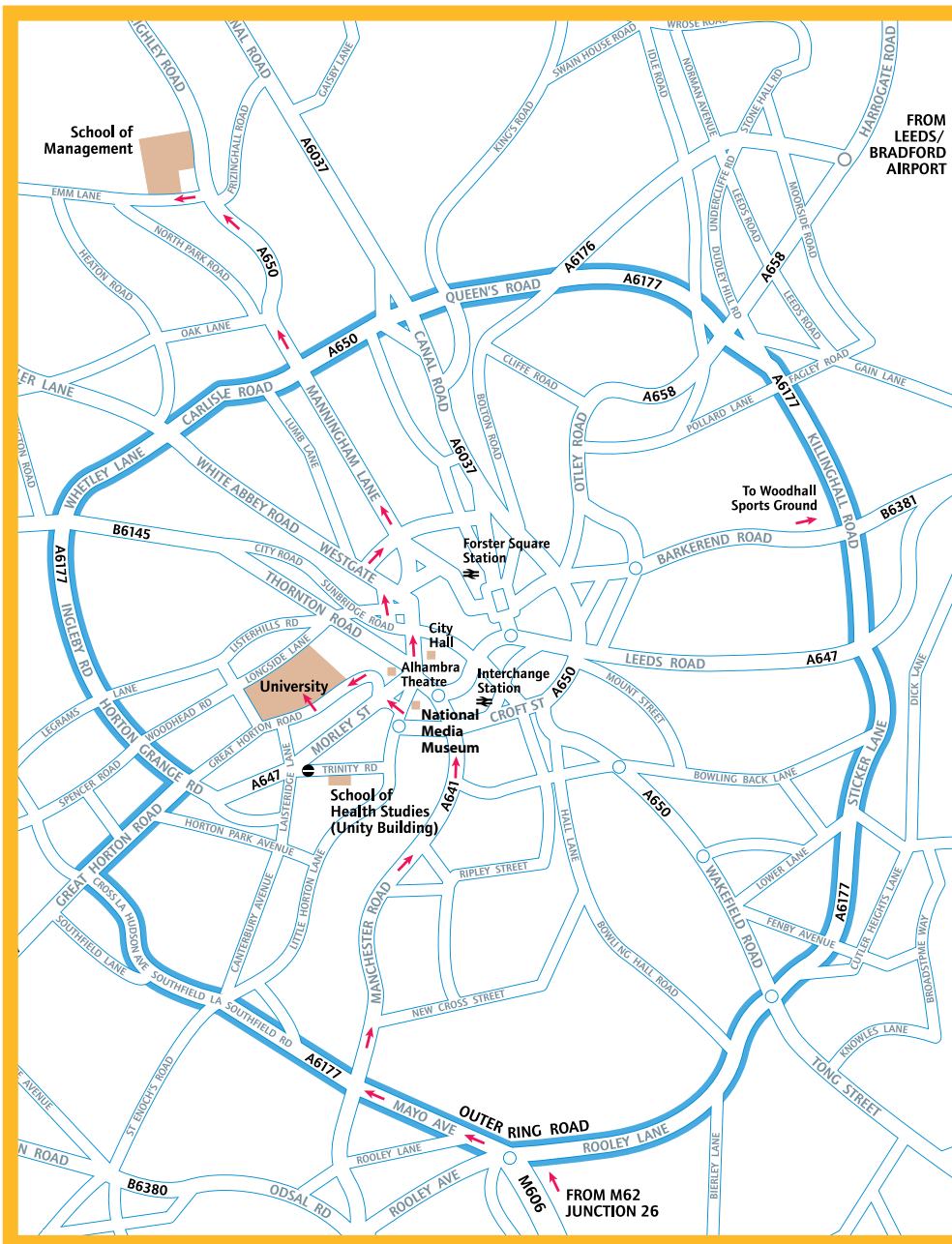
You can take advantage of the host of outdoor sporting activities available in the area or just enjoy the peace and quiet.



Yorkshire Dales and Alhambra Theatre

# How to Find us

[www.eng.brad.ac.uk/ug\\_studies/](http://www.eng.brad.ac.uk/ug_studies/)



## How to Find Us

**Coach** - services connect most parts of the country to Bradford's Travel Interchange.

**Rail** - Bradford Interchange and Forster Square stations have extensive rail links, though many involve changing at Leeds. Approximate journey times are:  
 London, King's Cross 3 hours  
 Edinburgh 4 hours  
 Birmingham 3 hours  
 Manchester 1 hour  
 York 1 hour  
 Leeds 20 minutes

There is a **free** city bus connecting Bradford Travel Interchange, Forster Square station and Centenary Square to the University.

**Road** - Bradford is connected to the national motorway network via the M62 and M606.

Approximate distances are:  
 London 200 miles (320 km)  
 Edinburgh 200 miles (320 km)  
 Birmingham 120 miles (192 km)  
 Bristol 220 miles (352 km)  
 Manchester 35 miles (56 km)  
 Newcastle 95 miles (152 km)  
 York 33 miles (53 km)  
 Leeds 8 miles (13 km)

**Air** - There are direct regular air services into Leeds/Bradford International Airport, 7 miles (11 km) from the University, from various cities around the UK and Ireland as well as from Amsterdam and other European locations. You can get from the Airport to the University by bus or taxi. Many internal and international flights can also be made into Manchester Airport, 50 miles (80 km) south-west of Bradford

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More detailed maps of the University campus are available on our website at: [www.bradford.ac.uk/maps](http://www.bradford.ac.uk/maps)

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