



Programme Specification

BENG-IE-2022: Engineering (Industrial Engineering)

LU Bachelor of Engineering with Honours awarded by Lancaster University (FHEQ Level 6)

Programme Status: Approved | Version: 1

Introduction

This programme specification provides a summary of the main features of the Engineering (Industrial Engineering) programme and includes the learning outcomes that you as a student are expected to have achieved on successful completion of the programme.

Further detailed information related to this programme and the College can be found in the following resources:

- Programme Handbook
- B&FC Admissions Policy
- Work based and placement learning handbook (for foundation degrees)
- Student guide to assessment and feedback

Key Programme Information

Programme Code	BENG-IE-2022
Programme Title	Engineering (Industrial Engineering)
Teaching Institution	Blackpool and The Fylde College
Professional, Statutory and Regulatory Body (PSRB) Accreditation	None
UCAS Code	
Language of Study	English
Version	1
Approval Status	Approved
Approval Date	06 June 2022
JACS Code	Other: Other
Programme Leader	Margarita Georgieva

Programme Awards

Award	Award Type	Level	Awarding Body
LU Bachelor of Engineering with Honours	Honours Degree (360 credits)	Level 6	Lancaster University

Programme Overview

The need for engineers to maintain a flexible role in the workplace has evolved from simply having a detailed knowledge of engineering principles in fabrication, maintenance and product development, and design to a more rounded individual who is able to develop and manage systems across a whole range of technical and management disciplines. Industrial Engineering is a very flexible and adaptable programme as it very often fills the margins between industry and business or management processes with a concern for human factors, improvement, ergonomics, customer satisfaction and quality. Industrial engineers can deal with optimisation of complex processes, systems and organisations, and possess the adequate technical engineering knowledge, while they also are knowledgeable in business development, operations management and project management practices. This makes graduates very flexible and more marketable in industry, and allows for the development of project and human resource management skills. Industrial Engineering is one of the most flexible fields of Engineering that easily applies its principles to industries as well as businesses in view of increasing efficiency, reducing costs, improving quality of products and services. Industrial engineers optimise complex processes, organisations and systems or even create them to achieve higher efficiency by saving time, money or effort, and to monitor quality and increase productivity. The field

overlaps with operations research, management science, ergonomics, and is a very human-oriented discipline which takes into account the human factor the viewpoint and motives of users at all levels.

Our BEng (Hons) Industrial Engineering programme is brand new and takes into account contemporary developments in the field. We will provide you with core engineering knowledge as a first step at Level 4. This is where you will learn foundational subjects such as engineering science, mathematics and design, along with professional engineering management. At Levels 5 and 6, you will start learning specialist topics which will give you more insight into the day-to-day work of an industrial engineer. Level 5 you will have practical subject areas such as lean manufacturing, industrial systems, control and simulation. You will also get a chance to work on your own projects and ideas and will get support and feedback all through your studies. A continuous need for able industrial engineers on a global scale means there are excellent career opportunities for talented engineering graduates within a variety of sectors. The uniqueness of Industrial Engineering makes it adaptable to sectors across the industry and in the business world. The gender balance within the field is very favourable to women. There also are many professional organisations that you can join from day one and get support and guidance in your college and professional career. Many of our graduates are now employed by major companies such as EDF Energy, Westinghouse Springfields, BAE Systems, AGCCE Chemicals, Airbus, NIC, NIS Ltd., Leyland Trucks and PACCAR, AMRC, GCE and Ford Motor Company as design, production, project or research and development engineers.

Admission Criteria

A minimum of 48 UCAS points (excluding Functional Skills) in an appropriate discipline:

- DD from A levels to include mathematics and a technology, engineering or science-based subject
- PPP from Extended Diploma, MP from Diploma, MM from 90 Credit Diploma in a science or technology-based subject, including passes in mathematics

The entry criteria for direct entry onto Level 5 of the programme are:

- HNC or HND with an overall Merit grade in Mechanical, General or Aeronautical Engineering or another appropriate Engineering discipline
- Applicants for whom English is not their first language are expected to achieve a minimum 6.0 overall with at least 5.5 in each IELTS component.
- Applicants who are able to demonstrate relevant work/life skills or knowledge will also be considered on an individual basis and will be required to attend an interview and provide an up-to-date CV with a professional portfolio, evidencing their capacity to undertake the programme.

Students entering the programme with an HND will need to obtain additional initial advice and guidance on their funding eligibility.

Career Options and Progression Opportunities

Progression Routes

It is expected that you will have an IET or an IMechE membership from Level 4, which will enable you to plan your continuous professional development and will facilitate your engagement in industry events. As you move to Level 6, you should consider applying for professional registration (EngTech or IEng) and you should plan for the next steps in your career. You will either look for jobs in industry or will apply for MEng and MSc opportunities. Your programme leader and tutors will help you with your chosen route, and will strive to provide you with opportunities to enrich your profile in order to stand out among other candidates. With a

BEng (Hons) in Industrial Engineering, you will be able to progress into employment as an improvement engineer, engineering manager, quality manager and many others, or you will be looking for a place on MEng/MSc in Operations Management, Logistics and Supply Chain, Project Management, or Engineering Management. You might also consider MBA routes if you are looking to move into non-engineering managerial roles. Once in industry, you might consider further professional certifications in Project Management, Lean or Lean Six Sigma.

Enhancing your Employability

The opportunity for you to develop your graduate skills and attributes is built into all our courses to ensure you graduate not just with subject knowledge but with the ability to quickly adapt to the unknowns of a fast-paced environment and hit the ground running. Our programmes provide an opportunity to discover more about your chosen career area through visits from external speakers and trips to local employers and industry. The programme team will provide you with opportunities to participate in research events, competitions and STEM engagement activities, which will contribute to enriching your CV. You will be encouraged to take up DegreePlus activities, including social and community engagement. There are numerous opportunities for you to take leadership.

Careers Information, Advice and Guidance

You will have access to our Careers Team. Highly qualified specialists in careers information, advice and guidance will help you with UCAS applications for entry to Higher Education, with making decisions about progression to other courses, job applications, CV preparation and interview techniques alongside career and further training pathways and opportunities. Our team of professional Student Advisers are available to help you with all aspects of your career planning and decision-making, such as making decisions about your future career, planning your job search strategy, CV writing, getting relevant work experience - including volunteering, making applications and preparing for interviews, researching postgraduate study options. Your programme leader and progress tutor will also be there for you to give you subject-specialist advice and guidance and link you with professionals in industry to help you constitute a professional network.

Programme Aims

- To provide a robust foundation and framework for industrial engineers, enriched by the development of core, interdisciplinary and specialist knowledge of industrial systems and technologies, their design, development, control, maintenance and through-life management.
- To enable students to independently gain skills, knowledge and confidence in applying proven principles, technological techniques and methods in industrial engineering, leading them to explore and utilise new developments in the field, including research and advanced technologies, to acquire new knowledge, analyse and evaluate new developments in the sector and to apply these appropriately.
- To provide students with the opportunity to gain transferrable knowledge and skills that enable them to engage fully in design, research, development, manufacture planning and control, testing and maintenance of industrial engineering solutions, products and systems that have an impact on the advancement of science and technology.
- To provide academic, technical and professional development through a variety of learning experiences, the development of communication skills and capability of critical analysis, problem solving, the presentation and justification of rational argument and alternative courses of action.
- To enable students to critically evaluate concepts and evidence from a range of sources, and to transfer and apply creativity and innovation skills, exercising significant judgement in a range of situations, accepting responsibility and accountability for determining and achieving personal and team outcomes.
- To educate proficient industrial engineers about responsibility, professional development and lifelong learning, and facilitate opportunities to pursue employment or the level of study which will enable them to continue to excel in their professional lives.
- To graduate professional industrial engineers who have a critical and informed awareness of contemporary issues, legislation, human factors, ecological, sustainability, obsolescence,

maintainability challenges, as well as key opportunities of the sector, recognising the impact of customer voice, market trends and industry demands, and who are able to produce or propose sustainable solutions with lasting, impactful outcomes for the success of the industry.

Programme Learning Outcomes

Level 6

Upon successful completion of this level, students will be able to:

1. Critically analyse and evaluate complex systems and their interdependencies through the application of systems thinking via analysis of the wider engineering context in view of integrated solutions adopting a systems approach.
2. Interrogate and resolve problems using a sound evidence base, applying continuous improvement methodologies, to contribute to increasing the effectiveness of industrial technologies, systems, services, and their management, considering legal and contractual issues.
3. Independently analyse essential facts, concepts, and fundamentals of industrial engineering, underpinned by scientific and mathematical principles to identify, formulate and solve industrial engineering problems and to critically evaluate these solutions.
4. Critically analyse, test and evaluate industrial systems and processes to identify possible problems, inefficiencies or other issues that may impact users or service providers, evaluating engineering decisions for a more socially inclusive, ethical, economically stable, environmentally sustainable and commercially viable world.
5. Use advanced industrial engineering-specific IT facilities, applying information retrieval, mathematical and statistical methods to plan, develop and work on projects which support extended enquiries into innovative and creative problem solving in the sphere of industrial engineering.
6. Evaluate business, customer and user needs, to independently plan, manage and execute a technically and theoretically informed project, which extensively analyses all aspects of a problem and proposes adequate solutions, broadly deepens knowledge and skills base and critically evaluates expected outcomes.
7. Work in teams, managing tasks and resources to meet changing technical and managerial needs, to support design and development processes through cost evaluation, risk management, and to lead continuous quality improvement utilising robust communication strategies.
8. Use interpersonal and collaboration skills to communicate technical and non-technical information to various audiences on solutions that develop innovative ideas and new ways of thinking to support the advancement of industrial engineering practices and knowledge.
9. Formulate innovative solutions, designs, products and services by utilising and applying industry-standard engineering skills through laboratory and workshop activities for planning, designing, analysing, implementing, testing and controlling.
10. Creatively apply, utilise and adapt engineering principles and tools, quantitative science and knowledge towards interdisciplinary projects or to deal with uncertainty and extend technological capability and knowledge base through new applications and techniques.
11. Use general IT facilities and information retrieval skills to plan, develop and execute projects, working as a team on projects that involve technical uncertainty, strive for continuous improvement, and develop the ability to work in different roles.
12. Engage in lifelong learning and continuous professional development while supporting others in their endeavours by developing mentorship and people management skills.
13. Apply health and safety, ethical and sustainability principles, legal frameworks and technical standards to professional practices in an interdisciplinary engineering context which recognises obligations to society, the profession and the environment.

14. Apply industrial engineering principles, knowledge and skills in an interdisciplinary engineering context in view of creating adaptive, sustainable and efficient solutions that correspond to given specifications.

Programme Structure

Module	Level	Credits	%	Category	Description	Length/Word Count	Grading Method
Stage 1							
B4SCBENG: Introduction to Academic Study (Mandatory)	4	20	60%	Coursework: Other	Written piece and reflection	2000	Letter Grade
			40%	Practical: Other	Case study, analysis, interpretation (1500 words) and poster presentation (15 minutes)	15	Letter Grade
BENG401: Engineering Mathematics (Mandatory)	4	15	60%	Coursework: Assignment	n/a	1200	Percentage Grade
			40%	Written Exam: Formal Written Examination	Formal Written Examination	120	Percentage Grade
BENG402: Engineering Science (Mandatory)	4	15	60%	Coursework: Report	Technical / Laboratory Report	1500	Letter Grade
			40%	Written Exam: Formal Written Examination	n/a	120	Percentage Grade
BENG403: Engineering Design (Mandatory)	4	15	70%	Coursework: Portfolio / e-Portfolio	Portfolio of product design specification, design work and accompanying analytical studies.	2000	Letter Grade
			30%	Practical: Presentation	Presentation and demonstration of a design solution.	15	Letter Grade
BENG404: Managing Professional Engineering Project (Mandatory)	4	15	90%	Coursework: Project	The project will contain a portfolio of project management documents and a project closure report.	3000	Letter Grade
			10%	Practical: Presentation	n/a	10	Letter Grade
BENG405: Computer Aided Design (Mandatory)	4	15	50%	Coursework: Evaluative/ Reflective Report	Evaluative report with a set of CAD drawings	1500	Letter Grade
			50%	Coursework: Evaluative/ Reflective Report	CAD project with Evaluative Report	1500	Letter Grade
BENG406: Workshop (Mandatory)	4	10	50%	Practical: Artefact	Prototype / Manufactured Product Presentation and Demonstration	10	Letter Grade

BENG406: Workshop (Mandatory)	4	10	50%	Practical: Practical Skills Assessment	n/a	20	Letter Grade
BENG410: Quality Management Systems (Mandatory)	4	15	70%	Coursework: Report	Report on a quality management case study to cover all topics addressed in the lectures.	2500	Letter Grade
			30%	Written Exam: Formal Written Examination	n/a	120	Percentage Grade
Stage 2							
BENG501: Research Project (Mandatory)	5	20	90%	Coursework: Literature Review	n/a	3000	Letter Grade
			10%	Practical: Presentation	n/a	20	Letter Grade
BENG502: Professional Engineering Management (Mandatory)	5	20	100%	Coursework: Portfolio / e-Portfolio	n/a	4000	Letter Grade
BENG503: Further Engineering Mathematics (Mandatory)	5	20	50%	Coursework: Assignment	Applied Mathematical Study	1600	Percentage Grade
			50%	Written Exam: Formal Written Examination	n/a	120	Percentage Grade
BENG513: Industrial Systems (Mandatory)	5	20	60%	Coursework: Report	n/a	2500	Letter Grade
			40%	Practical: Other	Case Study and Collaborative Analytical Workshop	1500	Letter Grade
BENG514: Lean Manufacturing (Mandatory)	5	20	60%	Coursework: Project	This project will be formulated as a practical, theoretical or analytical work on lean methods and tools to be used in a real scenario or applied to a theoretical case study.	2500	Letter Grade
			40%	Written Exam: Formal Written Examination	This is an open-book exam which will contain a mix of multiple-choice questions and free written answers section.	120	Percentage Grade
BENG516: Materials, Properties and Testing (Mandatory)	5	20	50%	Coursework: Assignment	Laboratory Report	1500	Letter Grade
			50%	Coursework: Other	Presentation of CFD Simulations and FEA	20	Letter Grade

Stage 3							
BENG601: Major Project (Mandatory)	6	40	5%	Coursework: Other	Proposal	1500	Letter Grade
			80%	Coursework: Report	n/a	10000	Letter Grade
			15%	Practical: Presentation	n/a	20	Letter Grade
BENG602: Professional Engineer (Mandatory)	6	20	60%	Coursework: Report	A case study evaluation of an engineering organisation or team.	2000	Letter Grade
			40%	Coursework: Portfolio / e-Portfolio	A portfolio of professional engagement and a professional discussion demonstrating readiness for undertaking a role as an engineering professional.	20	Letter Grade
BENG603: Control and Simulation (Mandatory)	6	20	40%	Coursework: Report	Technical / Laboratory Report	1600	Letter Grade
			60%	Written Exam: Formal Written Examination	Formal Written Examination	120	Percentage Grade
BENG608: Manufacturing Systems Engineering (Elective)	6	20	40%	Coursework: Project	Personal written technical report, incorporating a reflective account, literature research and theoretical applications in practice.	1500	Letter Grade
			60%	Practical: Practical Skills Assessment	Manufacturing simulation project with Digital Components and/or another manufacturing simulation software of your choice.	2500	Letter Grade
BENG610: Operations and Plant Management (Mandatory)	6	20	70%	Coursework: Report	n/a	2500	Letter Grade
			30%	Written Exam: Formal Written Examination	n/a	120	Percentage Grade
BENG612: Virtual Engineering (Elective)	6	20	50%	Practical: Other	Presentation of CFD Simulations and FEA	20	Letter Grade
			50%	Coursework: Research Portfolio	n/a	1500	Letter Grade

Study Workload

This degree is equivalent to 360 credits and the award you will obtain is a Lancaster University Bachelor of Engineering with Honours. This programme requires commitment to attend lectures and workshops at Bispham Campus in line with your study timetable. It is a requirement of the programme that you also undertake appropriate independent study and further reading and assessment.

The programme is offered on a full time basis which will typically require attendance on campus for two full days per week over three years. A part time pathway can be followed from Level 5 onwards, which would typically require attendance on campus one full (long) day per week over 3 years. As well as attendance to lectures, you are expected to undertake sufficient self-directed study. For each hour of class contact, you can typically expect to undertake an additional 2-3 hours of work, however this is dependent upon individual progress. You will need to find the right number of hours based on your own needs. Our tutors can help you with advice and support.

On the full-time programme of study, at Level 4, you should expect to be in College between two and three days weekly. At Levels 5 and 6, the time spent at College is two days weekly. Your time will be divided between practical workshops, labs and lectures. You should plan for a minimum of one additional hour of independent study for each module you have in any semester. It is commonly accepted that 1/3 of your studies is tutor-led in classes, laboratories and workshops, while 2/3 of your studies should be based on independent, self-guided work. On the part-time programme of study, at Levels 5 and 6, you should expect to be in College on a day release if you are in employment with industry. While you may be at work during the rest of the week, it is important to allocate some time for independent study.

Teaching Methods

The course will be delivered using a range of methods, which may include informal lectures, tutor-led whole group discussions, student presentations, technical workshops, computer laboratory activities, group work, group and individual research and seminars. Some lecturers will use flipped classroom techniques to encourage your intellectual independence. Some tutors will hold their lectures in a blended approach, giving you flexibility to choose your medium of study. You will have access to strong online as well as on-site support throughout your studies.

Balanced Theory and Practice

Modules are designed to integrate practical and theoretical application. Software and laboratory equipment will be regularly introduced by tutors and applied at relevant points within your studies. When appropriate, field trips to businesses, manufacturing facilities and other industry-specific locations will enable you to see the daily work of industrial engineers and to think of new ways to adapt your industrial engineering knowledge and skills to a variety of sectors. You will have the opportunity to work with case studies and practical tasks. Engaging with companies, the business world and the industry is vital for industrial engineers and that is why you will usually work on real-life examples of the challenges industrial engineers face in their workplace. You will have access to outstanding specialist facilities and equipment including our Advanced Technology Centre and our new laboratories. This will allow you to work with industry-standard equipment and software relevant to your future engineering career.

One-on-one Support

Tutors are very accessible and supportive and eager to enhance your learning experience through one-on-one assistance when needed. You will also have a dedicated progress tutor along with support from the College higher education learning mentors. You will significantly benefit from relatively small class sizes and a warm and friendly learning environment which encourages effective group interaction. For your major project, you will have a dedicated supervisor in addition to your module tutor who will provide you with supportive one-on-one discussions and will have weekly meetings with you. You will be shown various knowledge-based items, tools and techniques and will be able to practice with them where appropriate to reinforce the taught portion of some sessions. Independent research will allow development of additional tools and techniques as appropriate to your chosen specialism. This becomes more important as you progress through the programme.

Independent Learning

All higher education programmes are designed so that you are able to progressively develop independent learning skills and aptitudes. Learning independently is a key skill of all graduates when they enter the work place and one which we aim to develop further during your time with us. As you begin your programme you will be more intensively supported to develop the skills of learning and learning how to learn. As you progress you will be given the opportunity to apply these skills and to manage your own study time and activities with the goal of becoming a truly independent learner ready to get the most out of graduate employment opportunities. Your Personal Development planning activities are a key component in developing these independent learning skills and your tutors, support mentors and peers can help you to organise and structure this aspect of your learning and development.

Programme Delivery: Assessment

Various modes of assessment will be used in different modules to ensure all aspects of learning are assessed and that you are competent in different forms of demonstrating your knowledge. These will range from real world case studies, live presentations and briefing sessions, written assessments, computer aided design projects and written examinations. You will be supported in the preparation for assessments via readily available tutorial sessions and tutor support. Some assessments may already be very familiar, such as essays, exams, and reports. However, in higher education there are a great many varieties of assessment depending on the subject, the level and the type of course. Our higher education courses often integrate academic and work-based learning so assessment may include aspects of personal reflection, portfolio building and case studies.

The assessments for this programme are based on a combination of coursework, exams and practical assignments.

Coursework

Coursework might range from written tasks (essays, reports, reflective research) and assignments to the collation of portfolio of evidence based around a work placement or a set of laboratory tasks. Coursework differs from exams in that it will usually have a submission deadline within several weeks, and will be carried out independently.

Exam

Exams are formal, timed assessments, carried out in a controlled environment and overseen by one or more invigilators. They assess your grasp of the theory and underpinning knowledge related to your chosen career area. The opposite of practicals, they require you to present your practical understanding within an academic context. Some modules have no exams, but most modules incorporating elements of mathematical analysis will have an exam.

Practical

Practical assessments test your technical ability, and assess the level of application to real or contextualised tasks in your chosen career area. They can be timed or non-timed and involve observation of your practical skills and competencies, either in a work-based environment or a dedicated laboratory setting that closely resembles the workplace. Practical work-based assessments are supported and carried out by a trained assessors. Practical assignments may include presentations or demonstrations of prototypes you have developed.

Programme Delivery: Work Based and Placement Learning

The programme has been designed to align carefully with the needs of industry.

Although an industry placement is not an integral part of the course, you are strongly encouraged to gain industry experience via summer internships, short courses in industry and industrial visits. We regularly invite guest speakers, employers and alumni at relevant points throughout your studies to integrate your academic and workbased experience.

Case studies from industry will be embedded within specific modules and will feature throughout the course, as will the development of those attitudes and behaviours expected of a professional engineer. Students who are in workplacement or in employment with industry will be encouraged to contextualise their coursework to their engineering activities to strengthen their understanding of theory within a practical context.

Throughout your study with us you may be invited or encouraged to participate in field trips, activities and events or professional development opportunities, research events and webinars supported by the IET or the IMechE. These opportunities will help you to develop a well-rounded employability profile within engineering.

Programme Delivery: Graduate Skill Development

The BEng (Hons) Engineering (Industrial Engineering) programme offers you the opportunity to experience and develop a range of skills related to the discipline. These include accessing and evaluating information from a range of technical sources and communicating findings in a range of ways suitable to engineering. Teaching, learning and assessment methods allow development of key transferable skills such as problem solving, ethics and globalization through communication and digital literacy. The production of assessment work in varied formats such as engineering reports, essays, oral presentations and discussions will contextualize the communication and cognitive requirements of modern employable engineers. Modules are designed to develop your existing skills to enable you to become an independent engineer, providing the basis for a successful career in engineering, developed through industry and academic research and enquiry. Further skills in technical information analysis and application will be developed during the delivery of the programme content through lectures, guest speakers and research into engineering systems, sub-systems and approaches.

The following strands linked to graduate outcomes have been identified for the programme:

- Collaborative teamwork and leadership skills: Introduction to Academic Study and Managing a Professional Engineering Project are the two modules that will require you to build solid teamwork and leadership skills. Collaborative projects and assignments will help you enhance and practice this skill set. You will use these skills throughout your studies and across all other modules.
- Communication, information and digital literacies: Computer Aided Design, Engineering Design as well as project and Introduction to Academic Study work will enhance your presentation and communication skills. You will learn to gather and analyse data, and decide which information is relevant and how to use it, and present it effectively and professionally. You will learn more about stakeholders and how to change your communication strategies based on their needs and requirements.
- Personal and intellectual autonomy: Throughout your studies, you will have to learn to become increasingly independent and self-reliant while continuing to participate in group and teamwork. Engineering Mathematics and Engineering Design specifically require a considerable amount of individual work. It is imperative that you gain autonomy at Level 4 so as to be able to cope with work on Level 5.
- Ethical, social and professional understanding: With the modules Professional Engineering Management, and Professional Engineer you will gain a considerable amount of professional skill and understanding and will begin to apply industrial engineering principles to various

engineering problems. These will include issues that may have ethical, social, community impacts and you will need to consider these in your work.

- Global citizenship: the modules at Level 5 all consider issues of global importance and the examples that you will cover in specialist modules will usually related to issues such as sustainability, innovation, finding suitable solutions to problems arising from an increasingly global society.

- Enterprise and entrepreneurial awareness and capabilities: Professional Engineering Management and Research Project are modules that will greatly expand your entrepreneurial awareness and options in this field. Backed up by the specialist modules at this level, you will get insights into the various options individual or team enterprises have and how you can innovate and create.

- Research, scholarship and enquiry skills: You will be applying all other skills and attributes acquired at Level 4 and 5 to the Major Project module which will build your research, scholarship and enquiry skills to produce an original piece of research on a topic of interest to your field. You will also use them in the module Professional Engineer and across all specialist modules at this level.

- A commitment to lifelong learning and career development: From Level 4 study onwards, personal development plans (PDP's) will be driven through a tutorial system and will focus on identifying the skills and attributes of graduate engineers as employees, with the formulation and setting of action plans to achieve them. At Level 6 you will already be familiar with the many options Electrical and Electronic Engineering presents and you will be expected to have an awareness of the professional development path you would like to pursue. Your tutors will help you with advice. All modules will allow you to expand your professional skills and knowledge and will help you pick a direction for lifelong learning and development. There is a strong emphasis on employability and enhancement of graduate skills in all years of the BEng programmes.

Study Costs: Equipment Requirements

At College, you will have access to all the necessary software and hardware, library and scholarly works that you will need to complete your assignments. However, it is a good idea to invest in a computer or laptop for your studies as well as in a scientific calculator.

Study Costs: Additional Costs

You may encounter some additional costs during your studies, which could include non-mandatory field trips. It is recommended to obtain a student membership with the IET (non-mandatory), which is £20.00 for a year and £50.00 for the duration of the entire course, and which will give you access to a number of events and opportunities for your continuous professional development.

Related Courses

BEng (Hons) Engineering (Aerospace Engineering)
BEng (Hons) Engineering (Mechanical Engineering)
BEng (Hons) Engineering (Robotics and Automation Engineering)
BEng (Hons) Engineering (Electrical and Electronic Engineering)