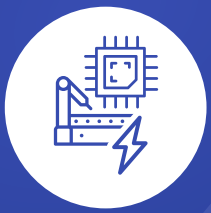
UK DEGREE APPLICATIONS MADE EASY

MABECS

QuickGuides



ALL YOU NEED TO KNOW ABOUT

# Electrical & Electronic Engineering

SPECIALLY CURATED FOR YOU BY

MABECS
EST. 1985

BEFORE WE GO FURTHER…

## Who is MABECS

MABECS is Malaysia's most experienced advisory service on UK degrees. Our service is free of charge.

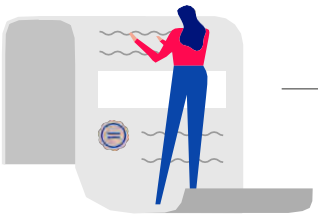
MABECS
UK EDUCATION SPECIALISTS
EST. 1985

To find out more about MABECS' history and services, turn to the inside back cover. To reach a MABECS Education Advisor, call or WhatsApp us at +603-7956 7655 or email enquiries@mabecs.com

## From enquiry to successful student placement, we take care of it **all**.

1

**Advice & guidance**
Find guidance on the right course and university including rankings, research ratings, entry requirements, and more.

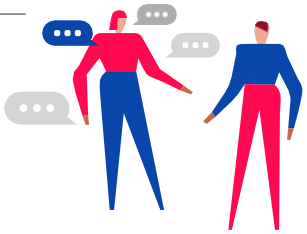


2

**Application**
Our experienced UK education advisors will advise you on the required documents and relevant procedures. Note that the application method is different from the postgraduate level.

3

**Test Preparation & Mock Interviews**
We provide assistance for LNAT, BMAT, UCAT and others tests that might be required by UK universities. We also provide mock interviews for Medicine, Dentistry, Veterinary Science and Oxford & Cambridge.



4

**Air tickets & accommodation**
Yes, we also help to provide guidance from flight bookings, visa applications and suitable accommodations to stay in.

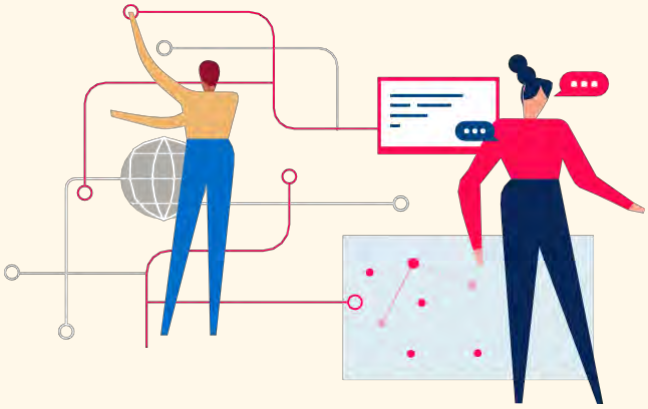
## Study in the UK!

# CONTENTS

# Have a different set of questions about studying in the UK?

Call us* at **03-7956 7655** to reach us immediately, or email **enquiries@mabecs.com** if you're the shy type.

*Our Education Advisors have all been educated in the UK with over 10 years of experience in counselling. They help provide first-hand information on UK education as well as student life in the UK.



**DISCLAIMER**

*The MABECS QuickGuides are for reference purposes only.*

*Course content, entry requirements, and tuition fees could change from time to time. You're advised to check the specific university website for the latest information.*

01

# GET TO KNOW ELECTRICAL & ELECTRONIC ENGINEERING

# Introduction

This booklet is concerned with Electrical & Electronic Engineering, a description that includes an area of Engineering that is developing at a tremendous pace and changing the world we live in.

Knowledge is developing rapidly, so the courses are changing too. It is important that you check the prospectuses of universities which interest you so that you are up-to-date on what they offer.

Electrical Engineering used to be the big subject – it was about the generation and distribution of electrical power and about machines which used this power. But the invention and development of semiconductor devices has swung the balance to Electronics, and the use of them in where we work, where we study, where we live – in fact, today, everything we do is concerned with or uses devices involving electronics; mobile phones, ATMs, DVDs, PCs, TVs, Fax, radios, cars, washing machines, the list goes on and on. This list may go outdated quicker than we can print this booklet! It is not surprising that there are several hundred degree programmes in this subject area. This booklet is an attempt to help you make choices that are right for you which takes into account your interests and skills now.

First of all, we have included only first degrees and those that are accredited by the Institution of Engineering & Technology (IET) and so satisfy the first level academic requirements leading to Chartered Engineer status. However, you are advised to check http://www.engc.org.uk/education-skills/course-search/acad/ as well as the universities' official website for the latest information.

Secondly, this booklet is written mainly for those taking A-levels, or IB qualifications but students with other qualifications (STPM, Diploma, UEC) can also be considered.

Thirdly, this booklet deals only with degrees that start with a wide coverage of this huge subject allowing you to choose options as your knowledge develops.

Fourthly, we encourage you to treat the selection of universities for your application as a key step in your own life. Think about your interests and aims, and build up a shortlist of universities that you are confident you will do well in and spend 3 or 4 years of your life usefully, successfully and happily.

# Course Organisation

There are three different structures in Electrical & Electronic Engineering degrees:

- Degrees initiated in a Unified Engineering approach;
- Degrees initiated in an Electrical & Electronic Engineering base;
- Degrees specialising in a single-named degree.

The broadest of these structures is Unified Engineering, in which all the branches of Engineering are studied initially. This leads to later specialisation in Electrical & Electronic Engineering, and finally even to specialised areas of that.

Aberdeen, Cambridge, Durham, Exeter, Leicester, Oxford, Sussex and Warwick have such a structure.

Besides giving advanced specialised knowledge, Unified Engineering also gives you a basic understanding of all branches of Engineering; a considerable asset in research, in teamwork, and in leadership. (Of course, you might choose to do a different branch of engineering, such as Mechanical or Civil Engineering).

The most common structure is one based on an Electrical & Electronic Engineering degree programme. The initial year gives a broad coverage of the subject. But all programmes offer a choice of specialised modules in the final year, and thus allow one to make choices based on an informed and mature knowledge of oneself and the subject.

In many universities, earlier choices allow you to put even more emphasis on a particular aspect of the subject, and so obtain a specialist named degree, (such as Communication Engineering, or Power Electronic Systems, or Electronic Engineering & Cybernetics, to mention a few), having given you a strong base in Electrical & Electronic Engineering.

Some universities initially offer only a specialised degree in an aspect of the subject, which are excellent for those who already have a near-degree level knowledge of the subject but are not so good if you lack that level of knowledge and experience.

There are other differences in university degrees in the same subject which we will consider on the next page, but environment and structure are the two to start your shortlist with.

# Course Content

Most degree courses are based on the same subject areas. In the first year, for instance, the subjects (except at Unified Engineering universities) are Circuit Analysis, Software Engineering & Programming, Mathematics, Energy Transport & Conversion and Signals & Communications. In the final year, there will always be a range of specialist subject options but this choice is best made on the basis of degree level knowledge and understanding, and not as a basis for choosing a particular university.

Many universities have an optional “sandwich” year, meaning that after completing the second year of the course, you spend a year working in the electrical-electronics industry, under university supervision, earning a salary and gaining an insight into the application of the engineering you have learned. Apart from earning a significant amount of cash, and so reducing the overall cost of the degree, this gives you an advantage in your employment after graduation. The experience also gives focus to your studies and generally, sandwich course students get higher grades in their final degree than those who have not had the working experience.

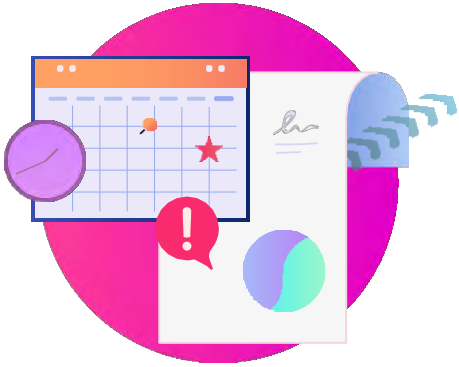
02

# APPLYING FOR ELECTRICAL & ELECTRONIC ENGINEERING

# How it works

Applications for undergraduate degrees for most of the UK universities go via UCAS. You will need to register and complete the UCAS form, with payment, by the set deadline. Colleges will usually set internal deadlines for their students. With the exception of Oxford and Cambridge, the UCAS deadline for competitive universities is January 14, 2026.

The final deadline to submit a UCAS application is June 30.



# Course Codes & Fees

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Aberdeen** | MEng Electrical and Electronic Engineering (H605)<br><br>MEng Electrical and Electronic Engineering with Renewable Energy (H6H6)<br><br>MEng Electrical and Electronic Engineering with Robotics (H6H7) | 5 years (Scottish University) | 24,800 | A Levels: ABB with Maths and one from Physics or Chem<br><br>IB: 34 points including Maths and Physics at HL (6 or above) and English at SL<br><br>STPM: A CGPA of 3.0 or more, including grade B or better in Mathematics and Physics. Grade C or better in GCE O level English | |
| **Aberystwyth University** | BEng Electrical and Electronic Engineering (163H) | 3 years<br><br>4 years (SW) | 20,715 | A Levels: BBB-BBC to include B in Physics and B in Mathematics<br>IB: 30-28 with 5 points in Physics and Mathematics at Higher Level<br>STPM: Minimum GPA of 3.0 or Grade B<br>Matriculation: Minimum GPA of 3.0 or Grade B<br>UEC: At least five subjects with B grades | |
| **Anglia Ruskin University** | MEng Electronic and Electrical Engineering (H606) | 4 years | 17,500 | A Levels: ABB from a minimum of 3 A Levels (or equivalent) including a pass in Mathematics<br><br>IB: with a minimum of 24 points | |
| **Aston University** | MEng Electrical and Electronic Engineering (H601) | 4 years with integrated placement year | 21,500<br><br>2,500 (SW) | A Levels: BBC to include Maths and a physical science or technology subject<br><br>IB: 29 overall points with 5, 5, 4 in Higher Level subjects, including minimum grade 5 in Higher Level Maths and Physics | This course is designed to stretch our top students and includes a 12-month industrial placement, which includes some distance learning business modules. Our award-winning careers and placement team and strong industry ties will provide you with exciting placement opportunities. Previous students have gained experience with leading companies, such as Red Bull Racing, Virgin Media, and Network Rail |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Bangor University** | MEng Electronic Engineering (H601)<br><br>MEng Computer Systems Engineering (H617) | 4 years | 21,000 | 128-136 Tariff points (AAB-ABB)<br>A Levels: including C in Maths & C in Physics<br><br>IB: including H5 in Maths & a H5 in Physics<br><br>UEC: 75% (min 4 Subjects higher than grade B3)<br><br>ATAR: 80 points | We have a 95% employability rating<br><br>We have a strong research base in optoelectronics, communications, microelectronics, bioelectronics and materials science, and organic and plastic electronics. |
| **University of Bath** | MEng Electrical and Electronic Engineering (H600)<br><br>MEng Computer Systems Engineering (HG64)<br><br>MEng Electronic Engineering with Space Science and Technology (H6HK)<br><br>MEng Robotics Engineering (H652) | 4 years<br><br>5 years (SW) | 30,500<br><br>8,470 (SW) | A Levels: AAA or A*AB including A in Maths and A in a 2nd science or technology subject (Physics)<br><br>IB : 36 points and 6,6,6, or 7,6,5 in three HL subjects including 6 in either HL Mathematics and 6 in one other science or technology subject (Physics)<br><br>STPM : AAA<br><br>UEC: A2 in 6 subjects including either Advanced Mathematics I or Advanced Mathematics II and a second science or technology subject | |
| **University of Birmingham** | MEng Electronic and Electrical Engineering (H605)<br><br>MEng Electrical and Railway Engineering (52H1)<br><br>MEng Mechatronic and Robotics Engineering (HH63) | 4 years<br>5 years (SW) | 29,560<br><br>You will pay half your normal tuition fees and can expect to be paid between 12,000 and 18,000 prorate (SW) | A Levels: AAA to include Mathematics<br>IB : 6,6,6, to include Mathematics with a minimum of 32 points<br>STPM : is considered equivalent to A-Level and is acceptable for admissions to the first year of an UG programme<br>SAM: a TER of between 90 to 98 is required<br>CIMP: A pass in 6 OACs (min of 3 at grade B, and 3 at grade C) is generally acceptable for admission to the first year of an UG programme. | Our flagship Integrated Design Projects run throughout Years 1-3 of your degree. You will work alongside Mechanical and Civil Engineers to develop designs for technologies with impact in the world. In your first year you'll learn computer aided design, about engineering processes and human tech interactions |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Brighton** | MEng Electrical and Electronic Engineering (H607)<br><br>MEng Electronic and Computer Engineering (HG6K) | 4 years<br><br>5 years (SW) | 17,250<br><br>1,850 (SW) | A Level: ABB–BBC (128–112 UCAS Tariff points to include Maths C and a physical science<br><br>IB: 28 points, with three subjects at HL. HL subjects must include Maths & Physics at grade 5<br><br>STPM: is considered equivalent to A-Level and is acceptable for admissions to the first year of an UG programme<br><br>UEC: an overall mark of B4 with a minimum of 5 subjects at B6 or above<br><br>Matriculation: GPA 2.67 and above<br><br>SACE and CIMP: case-to-case basis | |
| **University of Bristol** | MEng Electrical and Electronic Engineering (H606)<br><br>MEng Computer Science and Electronics (GH46)<br><br>MEng Mechanical and Electrical Engineering (H360) | 4 years<br><br>5 years (SW) | 30,400<br><br>25% of the one-year tuition fees (SW) | A Levels: AAA incl Maths, or A*AB incl A in Maths<br><br>IB: 36 points with 18 at HL, including 6 at HL in Maths (either MAA or MAI)<br><br>STPM: GPA 3.3 or above<br><br>Matriculation: GPA 3.3 or above<br><br>UEC: 5As and above<br><br>AUSMAT/ SACE: ATAR 92 and above<br><br>CIMP: 84% and above | Years one and two provide a strong grounding in mathematics, computing, analogue and digital electronics, communications, electromagnetics, power electronics and control. In the third and fourth years you will choose from a range of optional units, meaning you can focus on anything from electrical power systems to electronic communications<br><br>Year three includes a group design project, and in the fourth year you will undertake an individual research project |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Brunel University London** | MEng Electronic and Electrical Engineering (H601) | 4 years<br><br>5 years (SW) | 24,795<br><br>1,385 (SW) | A-levels: AAB-ABB incl A in Maths & grade B in one of the following subjects; Physics, Chem, Bio, Geography, Geology, Env Sci, Computer Sci, Electronics, or Design and Technology<br><br>IB: 31 points, including 5 in HL Maths and HL 5 in one of the following subjects; Physics, Chem, Bio, Computer Sci, Geography or Design Tech<br><br>Matriculation: GPA 3.2 | You will be introduced to electronic engineering and gain deep knowledge of electronics and electrical systems. You'll learn about electronic systems, and electrical engineering and sustainability, and then progress to advanced devices and electronic systems design, and analogue integrated circuit design. In your final year, you can choose specialist subjects like embedded systems engineering, intelligent systems and power electronics |
| **University of Cambridge** | MEng Engineering (H100) | 4 years | 41,124<br><br>11,000 – 13,950 (additional college fees) | A Levels: A*A*A Maths & Physics required<br>The following Colleges require Further Mathematics at A level:<br>Christ's<br>Churchill<br>Clare<br>Lucy Cavendish<br>Sidney Sussex<br><br>IB: 41-42 points, with 776 at HL including HL Maths & Physics | All applicants for Engineering for 2025 entry are required to take the Engineering and Science Admissions Test (ESAT) at tan authorized assessment centre<br><br>The Cambridge Engineering course is unique. It allows you to keep your options open while equipping you with all the analytical, design and computing skills that underpin modern engineering practice<br><br>Part I (Years 1 and 2) provides a broad education in engineering fundamentals, enabling you to make a genuinely informed choice about the area in which to specialise from your third year (many students change direction as a result). Part II (Years 3 and 4) then provides in-depth training in your chosen professional discipline<br><br>You can specialise in:<br>Aerospace and Aerothermal Engineering<br>Bioengineering<br>Civil, Structural and Environmental Engineering<br>Electrical and Electronic Engineering<br>Electrical and Information Sciences<br>Energy, Sustainability and the Environment<br>Information and Computer Engineering<br>Instrumentation and Control<br>Mechanical Engineering |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Cardiff University** | MEng Electrical and Electronic Engineering (H601)<br><br>MEng Integrated Engineering (H113) | 4 years<br><br>5 years (SW) | 29,450<br><br>5,090 (SW) | A Levels: AAB - ABB to include A in Maths<br><br>IB: 34-31 points or 666-665 in 3 HL subjects. Must include 6 HL Maths<br><br>STPM: GPA 2.8 (BBB) or above<br><br>UEC: AABBBB | |
| **City, University of London** | MEng Engineering Systems (HH33) | 4 years<br><br>5 years (SW) | 23,100 | A Levels: BBB (including Maths)<br><br>IB: 30 points, inc HL Maths 6 OR 31 points, inc HL Physics/Bio/Chem 6 and SL Maths 7<br><br>STPM: BBB<br><br>UEC: BBBBBB | The approximate percentage of the course assessment, based on 2018/19 entry is as follows:<br><br>Year 1<br>Examination: 61%/Coursework: 39%<br>Year 2<br>Examination: 53%/Coursework: 47%<br>Year 3<br>Examination: 50%/Coursework: 50%<br>Year 4<br>Examination: 41%/Coursework: 59% |
| **Coventry University** | MEng Electrical and Electronic Engineering (H610)<br><br>MEng Electronic Engineering (H679) | 4 years<br><br>5 years (SW) | 19,850 | A Levels: ABB to include Maths and one from Physics, Chem, Electronics, Engineering, Further Maths, Computer Sci, Computing or Design Tech<br><br>IB: 31 points to include Maths & one from Physics, Chem, Design Tech & IT at a HL<br><br>STPM: min CCC<br><br>UEC: with grade B5 or above in at least 5 relevant subjects ( not incl Eng/Malay) | The course aims to develop and implement a multiplicity of systems associated with electrical and electronic engineering. On the electrical side, you could be involved in the generation, transmission and control of electrical energy or machine design and the implementation of power drive systems, which links to power electronic engineering |
| **De Montfort University** | MEng Electrical and Electronic Engineering (H601) | 4 years<br><br>5 years (SW) | 16,750 | A Levels: BBC from at least two A-levels or equivalent, including one of the following subjects: Mathematics or Physics at grade C | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Durham University** | MEng Engineering (Electronic) (H711)<br><br>MEng Engineering (Electrical) (H511)<br><br>MEng General Engineering (H100) | 4 years | 33,250 | A Levels: A*AA including Maths & one subject that carries a practical endorsement (Bio, Chems, Geology or Physics)<br><br>IB: 38 with 666 in HL subjects including Maths & (Bio, Chems or Physics)<br><br>STPM: CGPA 3.2 or higher<br><br>UEC: A1,A2,A2,A2,A2<br><br>Matriculation: GPA 3.5 or higher<br><br>Foundation (IIUM): GPA 3.6 or higher | |
| **University of East Anglia** | MEng Electrical and Electronic Engineering (H201) | 4 years<br><br>5 years (SW) | 24,350 | A Levels: AAB including A in Maths and A in one of the following subjects: Further Mathematics, Design Technology, Computing Science, Electronics, Chemistry, Geology or Biology | |
| **University of East London** | MEng Electrical and Electronic Engineering (H222) | 4 years | 15,560 | A Levels: BBB<br><br>STPM: with grades A-D<br><br>UEC: Five subjects with grades B5 or above | |
| **The University of Edinburgh** | MEng Electronics and Electrical Engineering (H601)<br><br>MEng Electrical and Mechanical Engineering (HHH6)<br><br>MEng Electronics and Computer Science (GHK6)<br><br>MEng Engineering (H100) | 5 years (Scottish University) | 36,800 | A Levels: AAA to ABB inc Maths & either Physics, Bio, Chems, Computing Sci/Computing, Design & Tech (excluding Food Tech) or Engineering at B,<br><br>IB: 37 points with 666 at HL to include Maths (MAA only) & Physics, Bio, Chems, Computing Sci or Design Tech 5<br>STPM: is considered equivalent to A-Level and is acceptable for admissions to the first year of an UG programme<br><br>UEC: at A1 to B3, with a minimum of 5 subjects (excluding Chinese Language, Malay, Book Keeping and Accounts and Commerce)<br><br>Matriculation: GPA 3.4 and above | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Edinburgh Napier University** | MEng Electronic & Electrical Engineering (H6H0) | 5 years (Scottish University) | 19,340 | A Levels:<br>Year 1: BCC<br>Year 2: ABB including Math and a science (excluding Biology) or Technical Sub<br><br>IB: 29 points with 3 HL subs at 6,5,5 including a science (excluding Bio) or Technical Sub | |
| **University of Exeter** | MEng Electronic Engineering (H601)<br><br>MEng Engineering (H104) | 4 years<br><br>5 years (SW) | 30,900<br><br>20% of the tuition fees (SW) | A Levels: AAA with Maths A & another science at A<br><br>IB: 36 with Maths HL6 and another science HL6. Applicants achieving IB Maths SL7 plus IB HL6 in Physics will also be considered<br><br>STPM: AAA<br><br>Diploma entry into 2nd year:<br>GPA 3.3 – 3.5<br><br>UEC: 6 subjects<br>A1 - B3 (A1 A1 A1 A1 A2 A2 – A2 A2 A2 B3 B3 B3)<br><br>Matriculation: GPA 3.5<br><br>Other qualifications will be considered on a case-by-case basis | Have the flexibility and freedom to explore Engineering before deciding on your chosen<br><br>specialist field.<br><br>With a year in industry:<br><br>• Taught by experts in the field, you will explore a wide range of topics including communication and networking technologies, analogue and digital electronics design, and microcontroller engineering.<br>• Gain invaluable hands-on experience through real-world projects with industry partners, enabling you to apply your knowledge and boost your confidence.<br><br>• Become career-ready with opportunities to gain work experience through summer placements and the 'Year in Industry' programme. You can also choose to spend a semester studying abroad |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Glasgow** | MEng Electronics & Electrical Engineering (H601)<br><br>MEng Electronic & Software Engineering (HG66)<br><br>MEng Electronics with Music (H6WJ)<br><br>MEng Mechatronics (H731) | 5 years (Scottish University) | 31,800 | A Levels:<br>Year 1: AAA<br>Year 2: A*A*A<br>including Maths & Physics<br><br>IB:<br>Year 1: 38 (6, 6, 6 HL) HL Mathematics (Analysis & Approaches) and Physics. (SL6 can be accepted for either Mathematics or Physics)<br>Year 2: 38 (6, 6, 6 HL) including Mathematics (Analysis & Approaches) and Physics attained in one exam year and at the first attempt<br><br>STPM: equivalent to A-Level<br><br>UEC:<br>Year 1: AAAA<br><br>Matriculation:<br>Year 1: GPA 3.0 | This degree programme covers a wide range of topics relating to electronics & electrical engineering within modern life. It will enable you, as a graduate engineer, to be employed in a large number of industries, from power engineering to nanoelectronics, radar and telecommunication systems to the design of digital technology |
| **Glasgow Caledonian University** | MEng Electrical and Electronic Engineering (H611)<br><br>MEng Electrical Power Engineering (H631) | 5 years (Scottish University) | 15,200 | A Levels: CCC inc Maths & a Sci or Tech subject plus GCSE English at C/4 (year 1 entry)<br><br>IB: 26 points inc Maths & Sci or Tech subject (year 1 entry)<br><br>For Advanced entry requirement (Year 2 and 3), please contact admissions@gcu.ac.uk | Rapid advancements in communications, sensor technologies, robotics, and high-speed electronics, combined with newer technologies such as machine learning and computer vision continue to revolutionise the world we live in. |
| **University of Greenwich** | BEng Electrical and Electronic Engineering Technology (H690 M) | 3 years<br><br>4 years (SW) | 17,500 | A Levels: AAB, Mathematics at grade C and one of either Physics or Further Mathematics, at grade C<br><br>IB: 30 overall including HL Maths 5, HL Physics 5<br><br>STPM: with minimum pass average of 60%<br><br>UEC: with minimum pass average of 60% | This integrated Master's degree in electrical and electronic engineering covers core topics such as electrical circuits, control and instrumentation, electromagnetic waves, and the design of communication networks. You will also explore pioneering approaches in this field and discover how you can apply these to real-world problems |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Heriot-Watt University** | MEng Electrical and Electronic Engineering (H605)<br><br>MEng Robotics, Autonomous and Interactive Systems (H671) | 5 years (Scottish University)<br><br>6 years (S/W) | 25,008 | A Levels:<br>Year 1: BCC-ABB<br>Year 2: ABB (including Maths & Physics with one at B)<br><br>IB:<br>Year 1: 28-30 (with Maths & Physics at HL 5)<br>Year 2: 34 (with Maths & Physics at HL 6<br>0 | Inter-campus transfer between Malaysia & UK possible, for a semester a year or longer<br><br>During the first three years students study topics from low current electronics to high power systems. During the 4th and 5th years, your technical studies are advanced to a Masters level and the syllabus is greatly extended in the area of engineering management |
| **University of Huddersfield** | MEng Electronic and Electrical Engineering (H611)<br><br>MEng Electronic & Communication Engineering (H640) | 4 years<br><br>5 years (S/W) | 17,600<br><br>3,300 (SW) | A Levels: AAB-ABB including Maths at A2 Level & at least one Electronics, Chem, Material Sci, Physics, Further Maths, Mechanics, Dynamics or General Engineering<br><br>IB: 136 UCAS tariff points which must include HL Maths<br><br>Alternative qualifications:<br>For entry on to UG courses- STPM/UEC or Foundation Degree | |
| **University of Hull** | MEng Electrical and Electronic Engineering (H605) | 4 years<br><br>5 years (SW) | 23,500 | A Levels: ABB with Maths at Grade B or above<br><br>IB: 30 including 5 in HL Maths | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Kent** | MEng Electrical and Electronic Engineering (H601)<br><br>MEng Electronic and Computer Engineering (H693)<br><br>MEng Computer Systems Engineering (H613) | 4 years<br><br>5 years (SW) | 22,700<br><br>1,905 (SW) | A Levels: BBB including B in Mathematics plus one other STEM<br><br>IB: 34 points or 15 points at HL including Maths MAA or MAI (not Maths Studies), and a science subject 5 at HL or 6 at SL | From renewable energy generation to smart power distribution and the development of low powered embedded devices, Kent will provide you with the specialist knowledge and broad skills in both disciplines; making you career ready for the future direction of engineering.<br><br>The fourth year of this MEng qualification brings your engineering skills up to an advanced level. You'll develop in areas like energy storage technology, advanced power electronics and power network management |
| **Kingston University London** | MEng Electrical and Electronic Engineering (H600) | 4 years<br><br>5 years (SW) | 18,500 | A Levels: AAA – ABB rom three A-levels or equivalent Level 3 qualifications. A-levels to include Mathematics and two Science subjects (Physics, Further Mathematics, Chemistry, Computer Science /Computing, Design and Technology, Electronics) | |
| **Lancaster University** | MEng Electronic and Electrical Engineering (H606)<br><br>MEng Mechatronic Engineering (HHH6)<br><br>MEng Engineering (H102) | 4 years | 29,820<br><br>20% of the standard tuition fee (placement) | A Levels: AAA with Maths and a Physical Science: Physics, Chem, Electronics, Computer Sci, Design & Technology or Further Maths<br><br>IB: 36 points with 16 points from the best 3 HL subjects including either:<br><br>Maths HL 6 (either pathway) plus HL 6 in a Physical Science.<br>Maths HL 6 (either pathway) plus SL 6 in two Physical Sciences.<br>Maths SL 7 (Analysis and Approaches) plus HL 6 in a Physical Science | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Leeds** | MEng Electronic and Electrical Engineering (H600)<br><br>MEng Electronic and Communications Engineering (H640)<br><br>MEng Electronic Engineering (H610)<br><br>MEng Electronics and Renewable Energy Systems (H631)<br><br>MEng Mechatronics and Robotics (HH36) | 4 years<br><br>5 years (SW) | 32,250 | A-levels: AAA including Mathematics<br><br>IB: 35 points, with 18 at HL to include 5 in HL Mathematics: Analysis & Approaches or 6 in HL Maths: Applications & Interpretation<br><br>UEC: At least Grade B3 overall | All of our core electronic and electrical degree courses have a common first two years. This lays the foundations of your studies and gives you a thorough understanding of key topics, but it also means you can easily change between these courses until the end of Year 2 |
| **University of Leicester** | MEng Electrical and Electronic Engineering (H660)<br><br>MEng General Engineering (H105) | 4 years<br><br>5 years (SW) | 24,500<br><br>1,850 (SW) | A Levels: BBB including Maths. Two AS-Levels considered in place of one A-Level<br><br>IB: 28 points, inc 5 & 6 between Maths & Physics at HL. Minimum of 4 in English Language required if grade C/4 not held at GCSE<br><br>UEC: BBBBBB, a minimum of 6 equivalent grades (excluding Chinese, Malay Language and Book Keeping and Commerce) | All Engineers require an excellent knowledge of basic engineering principles, which is why 75% of our first year is common for all our subjects. As an Electronic and Electrical Engineering student you will begin to specialise in computer and software engineering topics right from your first year. You will study other core subjects alongside students taking other engineering degrees<br><br>Because this subject includes specialisation in the first year, it is not possible to switch to the Aerospace, General or Mechanical Engineering degrees |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Lincoln** | MEng Electrical Engineering (Electronics) (H786) | 4 years | 17,900 | A Levels: BCC, to include a grade B in Maths<br><br>IB: 27-34 points to inc HL 5 in Maths<br><br>STPM: 75%<br><br>UEC: 75%<br><br>Matriculation: GPA: 3.0 | Founded in collaboration with Siemens, the University of Lincoln's School of Engineering has a core philosophy of research-led teaching. Our innovative industrial collaborations have led to a generous programme of bursaries and workplace experience opportunities. The University is also one of a select group of Siemens' Global Principal Partners |
| **University of Liverpool** | MEng Electrical and Electronic Engineering (H606)<br><br>MEng Computer Science and Electronic Engineering (GHK6)<br><br>MEng Mechatronics and Robotic Systems (HH76) | 4 years<br><br>5 years (SW) | 29,100<br><br>1,905 (SW) | A Levels: AAB including Maths and a science subject (Chemistry, Computer Science, Further Mathematics, Physics or Electronics)<br><br>IB: 35, including 5 in HL Maths & 5 in a HL science subject<br><br>STPM : AAB<br><br>UEC : A2 in 3 subjects & b2 in 2 subjects excl. Chinese, Malay and book keeping with commerce & subject specific requirement. | **WHAT YOU'LL LEARN**<br>• Advanced skills in hardware and/or software design and implementation<br>• Use of industry standard tools, technologies and working methods<br>• How to take projects from conception through to design, implementation and operation<br>• Solid training in both software and hardware information technology |
| **Liverpool John Moores University** | MEng Electrical and Electronic Engineering (H602) | 4 years<br><br>5 years (SW) | 18,250<br><br>3,830 (SW) | A Levels: AAB - ABB Grade B from Maths and a Grade B from one of the following: Physics, Chem, Computing, Further Maths, Electronics or Engineering<br><br>IB: Acceptable on its own and combined with other qualifications including minimum score of 6 in HL Mathematics and 6 in HL Physics<br><br>STPM: as an equivalent to A Levels<br><br>UEC: an overall Mark of B3, with no mark below B6 for 5 relevant subjects (excluding Malay and Chinese Language) | • Design-led engineering curriculum emphasises, with design projects supplied by industrial partners<br>• Our thriving Student Autosport Society competes successfully in the Formula Student competition and electrical engineering students play a key role in developing the control systems that are crucial to the team's success |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Imperial College London** | MEng Electrical and Electronic Engineering (H604)<br><br>MEng Electrical and Electronic Engineering with Management (H6N2)<br><br>MEng Electronic and Information Engineering (GH56) | 4 years | 43,300 | A Levels: A*A*A overall, to inc A* in Maths, A*/A in Physics & A in a preferred subject.<br><br>IB: 40 points, to inc 7 in Mathematics at HL & 7 in Physics at HL | To be considered for this course for 2025 entry, you will need to sit the Engineering and Science Admissions Test (ESAT) as part of the application process<br><br>The ESAT is a computer-based assessment and is made up of individual multiple-choice assessments. These will differ depending on the Imperial course you are applying to<br><br>If your UCAS application indicates that you are likely to satisfy our requirements, your personal statement shows a clear interest in the subject, and you perform well in the admissions test, you may be invited for an online interview<br><br>The interview will be 25-30 minutes with a member of academic staff. We aim for the interview to be more of a conversation. You will be asked questions to understand your thought process and to see how you solve problems. The interviewer will also ask you about your motivation for the course<br><br>**It may take a very long time for you to hear anything from us.** This is because we accept applications right until the end of January, we read and assess applications very carefully, and we continue making decisions right up to the end of March. **Even if you have applied in October, you may not hear anything until March. Please bear with us** |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Queen Mary, University of London** | MEng Electrical and Electronic Engineering (H608)<br><br>MEng Robotics Engineering (H67B) | 4 years | 29,950 | A Levels: AAB to include Maths & a second science subject, preferably Physics, Electronics Chemistry or Computing is also required<br><br>IB: 34 points, including 6,6,5 from three HL subjects. This must include Maths at HL. Maths: either MAA or MAI. A second relevant science subject is also required at HL (and either Physics or Chem at HL)<br><br>STPM: AAB | QMUL invite guest speakers from companies such as H&MV Engineering, Ricardo plc, and Octopus Electric Vehicles. We also offer IET membership, so you can receive sector updates and access to networking |
| **University College London** | MEng Engineering (Electronic and Electrical) (H601) | 4 years | 39,800 | A Levels: A*AA with Maths required, plus either Physics or Further Maths preferred<br><br>IB: 39 with a score of 19 points in three HL subjects inc grade 7 in Maths and preferably Physics, with no score lower than 5 (This programme will accept either Maths: Analysis and Approaches or Applications and Interpretation at HL) | This programme does not accept resits. A resit is a second or subsequent attempt to improve a qualification outcome, for which you already hold an award. For further information on what UCL considers a resit, please see the website |
| **Loughborough University** | MEng Electronic and Electrical Engineering (H601)<br><br>MEng Electronic and Computer Systems Engineering (H613)<br><br>MEng Product Design Engineering (HHC7)<br><br>MEng Robotics, Mechatronics and Control Engineering (H673) | 4 years<br><br>5 years (SW) | 30,700 | A Levels: AAA inc Maths & either Computing, Computer Sci, Electronics, Engineering, Further Maths or Physics<br><br>IB: 37 (6,6,6 HL) inc HL Maths and either Computer Sci or Physics at HL. | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2025 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **The University of Manchester** | MEng Electrical and Electronic Engineering (H605)<br><br>MEng Electronic Engineering (H614)<br><br>MEng Mechatronic Engineering (HHH6) | 4 years<br><br>5 years (SW) | 34,000 | A Levels: AAA including Maths & either Physics, Electronics, Further Maths, Chem or Computer Science<br><br>IB: 36 points, including HL 666 - 6 in Maths & Physics OR Chem at HL and 6 in one other HL subject<br><br>STPM: considered to be equivalent to A-levels | The 17 United Nations Sustainable Development Goals (SDGs) are the world's call to action on the most pressing challenges facing humanity. At The University of Manchester, we address the SDGs through our research and particularly in partnership with our students.<br><br>Led by our innovative research, our teaching ensures that all our graduates are empowered, inspired and equipped to address the key socio-political and environmental challenges facing the world |
| **Manchester Metropolitan University** | MEng Electrical and Electronic Engineering (2D86) | 4 years<br><br>5 years (S/W) | 21,500<br><br>1,850 (SW) | A Levels: BBB – BBC, to include Mathematics or Further Mathematics<br><br>IB: 28 or minimum 112 UCAS Tariff points from three Higher Level subjects, to include HL Mathematics: Analysis and Approaches | |
| **Newcastle University** | MEng Electrical and Electronic Engineering with Industrial Project (H605)<br><br>MEng Electronics and Computer Engineering with Industrial Project (H654) | 4 years<br><br>5 years (S/W) | 29,850 | A Levels: AAB including Maths or Further Maths<br><br>IB: 34 points with Maths at HL 6<br><br>STPM: AAB<br><br>UEC: AAAABB from 6 academic subjects excluding Chinese, Malay Language, Book keeping and Commerce<br><br>Matriculation: GPA 3.3 and above<br><br>Diploma for 2nd year entry:<br>CGPA 3.0 and above | Assessment Methods:<br>Year 1<br>Written Exams: 58%<br>Coursework: 42%<br>Year 2<br>Written Exams: 57%<br>Practical Exams: 8%<br>Coursework: 35%<br>Year 3<br>Written Exams: 65%<br>Practical Exams: 3%<br>Coursework: 31%<br>Year 4<br>Written Exams: 21%<br>Practical Exams: 20%<br>Coursework: 59% |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Northumbria University** | MEng Electrical and Electronic Engineering (H602) | 4 years<br><br>5 years (SW) | 20,950 | A Levels: BBB with Maths & another analytical science subject (Bio, Chem, Computer Sci, Physics or Tech), or recognized equivalents<br><br>IB: equivalent to 112 UCAS Tariff points<br><br>STPM: BBB<br><br>UEC: 75% (B3 grades) excluding Malay and Chinese Languages<br><br>Matriculation: GPA 3.0 and above<br><br>SACE: min. 85% | This course will teach you about all aspects of electrical and electronic engineering, with a focus on engineering mathematics, programming and practical skills as well as the fundamentals of electrical, electronics and energy systems<br><br>You will be given an in-depth understanding of this subject before spending your final year broadening your knowledge of mathematics and management, in addition to deepening your knowledge in your chosen discipline |
| **University of Nottingham** | MEng Electrical and Electronic Engineering (H600)<br><br>MEng Electrical Engineering (H601)<br><br>MEng Electronic Engineering (H610)<br><br>MEng Electronic and Computer Engineering (H611) | 4 years<br><br>5 years (SW) | 30,750 | A Levels: AAA-ABB inc Maths & either electronic or a science subject (Computer Science, Physics, Chems or Bio)<br><br>IB: 36-32 Maths MAA HL 6 or 7 at SL<br>Maths MAI 6 at HL only<br><br>STPM: ranging from B+B+B+ to AAA<br><br>UEC: ranging from AAB3B3B3 to A1A1A2A2A2<br><br>Matriculation: GPA 3.4<br><br>ADTP: GPA 2.7<br><br>ATAR: ranging from 86 to 96 | Electrical engineers design and develop new technologies to generate and process power. The equipment they design is used to distribute electrical energy (including 'Smart Grid' technologies for renewable energy source) and also supports many manufacturing industries.<br><br>Electrical engineering technologies now enable hybrid and electric vehicle, trains, ships and even aircraft. |
| **Nottingham Trent University** | MEng Electronic and Electrical Engineering (H618) | 4 years<br><br>5 years (SW) | 17,500<br><br>1,850 (SW) | A Levels: ABB – ABC including A-level equivalent Maths grade C<br><br>IB: Overall Pass in the IB Diploma, including at least 15 points from three Higher Level Subjects<br><br>The alternative qualifications will be considered by NTU. For more information, please contact the admissions team | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Oxford** | MEng Engineering Science (H100) | 4 years | 59,260 | A Levels: A*A*A to inc Maths & Physics. The A*s must be in Maths, Physics or Further Maths<br><br>IB: 40 (inc core points) with 776 at HL (with 7s in HL Maths & Physics) | Further Mathematics can be helpful to students in completing this course, although it is not required for admission<br><br>All candidates must take the Physics Aptitude Test (PAT) as part of their application<br><br>The first two years are devoted to topics which we believe all Engineering undergraduates should study. In the third and fourth years there is scope for specialization into one of six branches of engineering: Biomedical, Chemical, Civil, Electrical, Information and Mechanical |
| **University of Plymouth** | MEng Electrical and Electronic Engineering (H608)<br><br>MEng Robotics (H676) | 4 years<br><br>5 years (S/W) | 18,650<br><br>A reduced fee will not exceed 20% of the standard annual Uni tuition fee (SW) | A Levels: ABB to include B at Maths, B at a second relevant subject<br><br>IB: 32 to include 5 at HL Maths & 5 at HL relevant second subject. English and Maths must be included<br><br>STPM: ABB | Take advantage of our flexible course, allowing you to switch between electronics and robotics until your final year, as your interests develop<br><br>Challenge yourself. Final year MEng students work in groups to undertake a major design project that will give them the opportunity to experience a broad selection of strategic, ethical, environmental, management, operational, logistical, technical, financial, contractual and team-working challenges |
| **University of Portsmouth** | MEng Electronic Engineering (H613) | 4 years<br><br>5 years (SW) | 19,200 | A Levels: BBB - BBC<br><br>IB: 29 points, to include 3 HL subjects, with Maths plus two relevant subjects at HL<br><br>Alternative qualifications will be considered | Year 1:<br>55% by exams and 45% by coursework<br>Year 2:<br>62% by exams, 38% by coursework<br>Year 3:<br>33% by exams and 67% by coursework<br>Year 4:<br>48% by exams and 52% by coursework |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Queen's University Belfast** | MEng Electrical and Electronic Engineering (H602)<br><br>MEng Computer Engineering (GH6Q) | 4 years<br><br>5 years (SW) | 25,300 | A Levels: AAA inc Maths & at least one from Physics (preferred), Bio, Chem, Electronics, Further Maths or Tech & Design<br><br>IB: 36 points, inc 6,6,6 at HL, inc Maths & Physics (preferred), Bio or Chem | Students may undertake a year's paid placement in industry and there are currently lots of companies to choose from. Examples of companies where our students have spent their placements include BT, Sensata Technologies, Andor Technology, NIE Networks, BAE Systems, Atkins, Microsoft and Seagate. Students may also gain summer work experience through the IAESTE international exchange programme. Canada, Croatia, Hong Kong, Thailand and Malaysia are just some of the countries where our students have been to through this Scheme |
| **Robert Gordon University** | MEng Electronic and Electrical Engineering (H600)<br><br>MEng Mechanical and Electrical Engineering (H300) | 5 years (Scottish University) | 17,840 | A Levels: BCC to include Maths B plus either Physics, Design Tech or Engineering<br><br>IB: 27 to include HL Maths & Physics, one of which must be at 6 and one at grade 5. English is required at a minimum of SL 4<br><br>Year 1 entry:<br>STPM: CGPA 2.33 or C+<br>UEC: Grade B6 or 60%<br>Matriculation: CGPA 2.33<br><br>Year 2 entry:<br>STPM: CGPA 3.33 or B+<br>Matriculation: CGPA 3.33 | Assessment<br>Typically, students are assessed each semester:<br>• 3 Written exams, average time of exam: two and half hours<br>• 2 Reports<br>• 1 Oral Assessment<br>• 2 Practical Skills Assessments<br>• 2 Set Exercises |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **The University of Sheffield** | MEng Electrical and Electronic Engineering (H629)<br><br>MEng General Engineering (H100) | 4 years<br><br>5 years (SW) | 30,570 | A Levels: AAA, including Maths & either Physics, Chem or Electronics (Maths & Physics + A in a relevant EPQ; AAA including Maths & Physic + A in AS or B in A Level Further Maths)<br><br>IB: 36 (38), 6 in HL Maths & either Physics, Chem or Electronics<br><br>UEC: with a minimum three subjects at A2, including any prerequisites required for entry, and no grade below C in any subject taken | Assessment<br>Exams/tests 61%<br>Coursework 33%<br>Practical 6% |
| **Sheffield Hallam University** | MEng Electrical and Electronic Engineering (H600) | 4 years<br><br>5 years (SW) | 17,155<br><br>1,200 (SW) | A Levels: ABB -128 UCAS Tariff points. This must include at least 64 points from two A Levels to include Maths & at least one other science subject<br><br>STPM: with a minimum of 3 principal passes (Grade A-C)<br><br>Matriculation: with a minimum of 3 Grade C | |
| **University of South Wales** | MEng Electrical and Electronic Engineering (D327) | 4 years | 16,200 | A Levels: BBC to include Maths & at least one other numerate Science such as Physics, Chem, Bio or Geography<br><br>IB: 30 overall include a score of 5 in Maths & one other Science subject at HL. You will also need to obtain a score of 5 or above in English at SL<br><br>STPM: two STPM passes<br><br>UEC: overall mark of at least 60% | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Southampton** | MEng Electrical and Electronic Engineering (H602)<br><br>MEng Electrical Engineering (H601)<br><br>MEng Electronic Engineering (H603)<br><br>MEng Electronic Engineering with Artificial Intelligence (H6G7)<br><br>MEng Electronic Engineering with Computer Systems (H6G4)<br><br>MEng Electronic Engineering with Mobile and Secure Systems (H691)<br><br>MEng Electronic Engineering with Nanotechnology (H611)<br><br>MEng Electronic Engineering with Photonics (H680)<br><br>MEng Electronic Engineering with Wireless Communications (H641) | 4 years | 29,400 | A Levels: A*AA including Maths (minimum grade A) and an additional required subject (minimum grade A)<br><br>IB: 38 points with 19 points required at HL, including 6 at HL in Maths (Analysis and Approaches) or 7 at HL in Maths (Application and Interpretation) & 6 at HL in an additional required subject | Assessment<br>Year 1<br>Written exam 45%<br>Practical exam 22%<br>Coursework 33%<br><br>Year 2<br>Written exam 62%<br>Practical exam 9%<br>Coursework 29%<br><br>Year 3<br>Written exam 43%<br>Practical exam 0%<br>Coursework 57%<br><br>Year 4<br>Written exam 10%<br>Practical exam 20%<br>Coursework 70% |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **The University of Strathclyde** | MEng Electronic & Electrical Engineering (H601)<br><br>MEng Computer & Electronic Systems (GHK6)<br><br>MEng Electrical Energy Systems (H630)<br><br>MEng Electrical & Mechanical Engineering (HH6H)<br><br>MEng Electronic & Digital Systems (H690)<br><br>MEng Electronic & Electrical Engineering with Business Studies (H6N1) | 5 years (Scottish University) | 29,350 | A Levels:<br>Year 1: AAB - BBB<br>Year 2: A*AA-AAB (Maths A, Physics, Computing)<br><br>IB:<br>Year 1: 36-32<br>Year 2: 38-34 (Maths HL6, Physics HL6) | |
| **University of Surrey** | MEng Electronic Engineering (H614)<br><br>MEng Electronic Engineering with Computer Systems (H633)<br><br>MEng Electronic Engineering with Nanotechnology (H616)<br><br>MEng Electronic Engineering with Space Systems (H621) | 4 years<br><br>5 years (SW) | 26,000<br><br>1,850 (SW) | A Levels: AAB inc Maths & one of: Physics, Electronics, Computing, Computer Sci, Further Maths, Design and Tech (Systems & Control). If you are studying Further Maths then the offer would be reduced by one grade<br><br>IB: 34 HL5/SL6 in Maths & one of Physics, Electronics, Further Maths or Computer Sci<br><br>STPM: A-, A-. B+<br><br>UEC: B3 in five subjects (excluding Chinese and Malay)<br><br>Matriculation: CGPA 3.3 | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of Sussex** | MEng Electrical and Electronic Engineering (H600)<br><br>MEng Electrical and Electronic Engineering with Robotics (H603) | 4 years<br><br>5 years (SW) | 26,250<br><br>20% of fees (SW) | A Levels: AAB with Maths<br><br>IB: 34 HL must include Maths, with a grade of 5 | From renewable energies, autonomous cars, robotics and mobile communication to advances in medicine, electrical and electronic engineering underpins all facets of our daily lives. Our research in sensors, flexible electronics, medical robotics and imaging, 5G communications and space systems informs our teaching.<br><br>You'll study in our Future Technologies Labs, which provide a new space for building robots, programming embedded systems and digital signal processors, as well as computer design and modelling suites. You'll use our electronics and control engineering laboratories, and electrical drive systems, and could be part of one of the Formula Student or Medical Robotic teams |
| **Swansea University** | MEng Electronic and Electrical Engineering (H606) | 4 years<br><br>5 years (SW) | 23,350 | A Levels: AAB-ABB at A level (inc Maths)<br><br>IB: 34 with either 5 at HL (or 6 at SL) "Maths: analysis & approaches", or 5 at HL (or 7 at SL) "Maths: applications & interpretation"<br><br>STPM: a minimum Average Grade 3.00 (B) awarded<br><br>UEC: minimum grade B in five subjects, not including Art, Chinese, Malay | |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **Teesside University** | MEng Electrical and Electronic Engineering (H602)<br><br>MEng Instrumentation and Control Engineering (H661) | 4 years<br><br>5 years (SW) | 17,000<br><br>1,350 (SW) | A Levels: ABB - BBC from any combination of recognised Level 3 qualifications including Maths B<br><br>IB: Award of IB including 5 in HL Maths | |
| **UWE Bristol** | BEng Electronic Engineering (H61D)<br><br>BEng Electronic and Computer Engineering (HM3L) | 3 years<br><br>4 years (SW) | 16,000<br><br>1,906 (SW) | A Levels: ABB - BBC with C in Maths plus a pass in one of the following subjects: Biology; Chem; Computing or Computer Sci; Design & Tech; Electronics; Engineering; ICT; Further Maths & Physics<br><br>IB: To include a minimum grade of 5 in HL Maths & a pass at HL in one of the following subjects: Biology; Chem; Computer Sci; Design Tech; Physics; Environmental Systems & Societies | Assessment:<br>Year 1:<br>Written exam 47%<br>Coursework 53%<br>Practical exam 0%<br><br>Year 2:<br>Written exam 25%<br>Coursework 54%<br>Practical exam 21%<br><br>Year 3:<br>Written exam 28%<br>Coursework 62%<br>Practical exam 10%<br><br>Year 4:<br>Written exam 13%<br>Coursework 69%<br>Practical exam 18% |
| **University of Warwick** | MEng Electrical and Electronic Engineering (H606)<br><br>MEng Electronic Engineering (H612)<br><br>MEng Systems Engineering (HH31)<br><br>MEng Engineering (H102) | 4 years | 33,520 | A Levels: A*AA to include Maths & Physics<br><br>IB: 38 with 6, 6, 6 at HL, Maths & Physics are required - at least one of these subjects should be at HL<br>STPM: comparable grades to A Level<br><br>UEC: 80% | All first-year students study a general engineering programme, which is much favoured by industry. In the second year, students continue to study the same core modules as all other students until the end of term one, after which they can specialise, or continue on the general Engineering pathway<br><br>Warwick do not currently accept the College Foundation programs or the Malaysian Matriculation |

| Name of University | Course Title & UCAS Code | Course Duration | Tuition fees (£) per academic year 2024 | Entry Requirements | Remarks |
|---|---|---|---|---|---|
| **University of York** | MEng Electronic Engineering (H609)<br><br>MEng Electronic Engineering with Business Management (H6NG)<br><br>MEng Electronic Engineering with Music Technology Systems (H669)<br><br>MEng Electronic Engineering with Nanotechnology (H6FH)<br><br>MEng Electronic and Communication Engineering (H629)<br><br>MEng Electronic and Computer Engineering (H639) | 4 years<br><br>5 years (SW) | 31,100 | A Levels: AAA including Maths. Your other two subjects can be any. We welcome arts and humanities subjects<br><br>IB: 36 points with grade 6 in HL Maths – Applications and Interpretation or 6 in HL or SL Maths – Analysis and Approaches<br><br>STPM: comparable grades to A Level<br><br>UEC: achieve between AABBB to A1 AAAA in five subjects<br><br>Matriculation: GPA 3.0 and above | It is generally possibly to transfer between courses within in each set, at any point during the first year of the course. Please note: transfers from Electronic Engineering to Music Technology or Nanotechnology specialisms are subject to pre-requisites having been satisfied. |

# Entry Requirements

The typical offer level is given in Column 4 of the Course Codes & Fees section of this booklet. Most requirements listed are for MEng entry. Otherwise, the BEng offer level is quoted, but transfer to the MEng programme is always possible with a good level of academic performance at the university, with approval from university.

You should note that universities aim their courses to suit their typical student, so a high score will indicate an initially high level of assumed knowledge and a stronger emphasis on theory.

Scottish universities have 5-year courses leading to the MEng degree, but applicants with strong A-level or IB qualifications can omit the first year.

# Selectors' Attitude

Your UCAS application is always considered as a whole; taking into account your qualifications, experience, personal statement and reference. Some universities may require applicants to attend interviews.

Universities will look for certain skills and attributes which they believe make an ideal candidate for Electrical & Electronic Engineering.

# Personal Statement

Your personal statement should reflect your academic interests and show why you have chosen the subject. Selectors are looking for applicants who are able to cope with the demands of the course, evidence that they have done some work to pursue their academic interests and have the relevant aptitude and skills for a degree and career in Engineering. Matters like hobbies and non-academic inter-ests can also serve to assist universities in diversifying the cohort of students they admit.

UCAS has implemented a system called the UCAS Similarity Detection Service to verify the authenticity of Personal Statements. If significant amounts of similarities are detected and the Verification staff decides to flag a personal statement, the university and the applicant will be notified via email by UCAS.

# 03

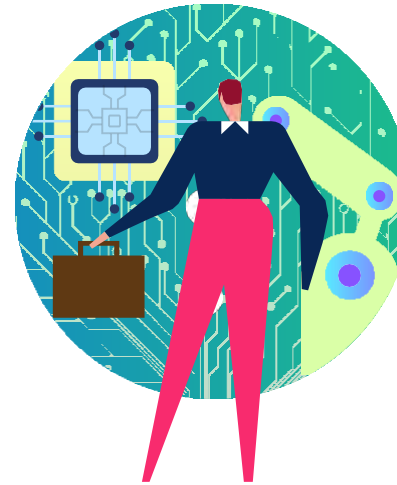
# LOOKING AHEAD

# Career Path

Careers in Electrical & Electronic Engineering are still popular in a developing country like Malaysia. Sectors include national and private power providers as well as the telecommunications players. Additionally, an Engineering degree is known to open doors to a wide variety of jobs.

After completing an accredited degree, you may register as a Graduate Engineer with the Board of Engineers Malaysia (BEM) and take up 3 years of relevant professional training, before passing a Professional Assessment Examination by the board and thus qualify as a Professional Engineer.

MEng Degree → Graduate Registration → Training → Assessment → Professional Status




If all that information is making you feel overwhelmed, don't worry. You're not alone. Countless students have felt the same way and they've found it helpful to consult MABECS for their UK degree applications. For an overview of our services, check out the Inside Front Cover page.

Here is how your MABECS Education Advisor can help you in detail:

## 1 BEFORE APPLYING

MABECS provides detailed information on:

- UK universities' environment, fees, and facilities
- course structure, content and specialisation
- entry requirements and university standards
- specific university's research ratings and teaching quality assessments

We can also recommend suitable and relevant universities based on your academic results and preferences.

## 2 APPLICATION

MABECS provides detailed information on:

- undergraduate degree application explained from start to end
- personal guidance for your Personal Statement
- mock interviews
- monitoring the progress of your application
- providing advice at stages where important decisions need to be made
- being the intermediary (middle person) between you and universities if our assistance is required
- counselling sessions with visiting UK admissions tutors and university representatives
- IELTS registration with the British Council

## 3 PRE-DEPARTURE HELP

MABECS provides guidance on:

- visa applications
- accommodation arrangements
- flight bookings

MABECS
UK EDUCATION SPECIALISTS
EST. 1985

# About Us

MABECS was set up in 1985 to assist students in Malaysia to find suitable places at universities in the United Kingdom.

Since 1985, students we have counselled have successfully enrolled in top UK universities – both at undergraduate and postgraduate levels.

Whether you're an individual student seeking counselling for your UK degree application, or an education institution hoping to achieve the same for your pre-university students, MABECS is here to help.

Visit our website at www.mabecs.com for a quick overview of how MABECS helps students from start to end of their UK degree application process. You'll also find many helpful articles on studying in the UK, including real student stories!

## UK degree applications made easy


**MABECS SDN BHD** 198501011041 (143492v)

B-07-03 Block B West, PJ8
No. 23 Jalan Barat, Seksyen 8
46050 Petaling Jaya Selangor,
Malaysia.

T +603 7956 7655
M +6017 339 7453
E enquiries@mabecs.com
W www.mabecs.com


**Monday to Friday:**
9:30am to 4:30pm

**Saturday, Sundays and public holidays:** Closed

# UK degree applications made easy.

We take care of everything in your UK degree application with your cooperation - free of charge.

## Student-centered

Our strong student-centered approach to counselling, means that we give students the fullest possible information on all available options, to help them make sensible decisions.

## Free Consultation

Advice, information and assistance with applications, are given free of charge and our Education Advisors are always ready to sort out any problems that may arise, and to brief you on preparations for travel to the UK.

## Accessible

Our friendly multi-racial, open-access office, can be easily reached by public transport, and no appointment is necessary to drop in and browse through the reference library, talk to an Education Advisor, or complete and send an application.

MABECS
UK EDUCATION SPECIALISTS
EST. 1985

**MABECS SDN BHD** 198501011041 (143492v)
B-07-03 Block B West, PJ8
No. 23 Jalan Barat, Seksyen 8
46050 Petaling Jaya Selangor,
Malaysia.

T +603 7956 7655
M +6017 339 7453
E enquiries@mabecs.com
W www.mabecs.com