Welcome to Foundation Engineering and Physical Sciences

The Foundation Engineering and Physical Sciences (FEPS) programme at Nottingham has been established for over 10 years and provides an integrated route for progression to almost 90 computer science, engineering, mathematics and physics undergraduate degree programmes.

We encourage a wide range of high-level applicants from a variety of backgrounds. This might include students who have good A level grades but perhaps in the wrong subjects for direct entry, international students who have qualifications that are not accepted for direct entry, and mature students who have decided to return to education.

The seamless progression onto year one of your chosen degree subject sets us apart from other universities; it is automatic, providing you successfully pass the foundation programme at the required standard.

All teaching is carried out by highly experienced staff from the Faculty of Engineering and Schools of Computer Science, Mathematical Sciences, and Physics and Astronomy. As a foundation student you will be a full member of the University and will have access to all the opportunities and facilities on offer, including a well-equipped sports centre, an active Students’ Union, welfare support and careers guidance.

The foundation programme experience ensures that our students are well prepared for any undergraduate course that they progress on to. Graduate engineers and scientists are creative, resourceful and logical people who enjoy solving problems – the kind of people employers from a range of industries are looking for. As a result, many of our graduates find excellent employment in engineering and science, as well as other industries including business, education, finance, health, and product design and manufacture.

More information is provided in this brochure about the foundation programmes on offer at Nottingham, and if you have any queries, please get in touch.

Iain Paterson-Stephens
Associate Professor and Head of Department, FEPS

Don’t forget to watch our videos from staff and students from across the Faculty of Engineering:
www.nottingham.ac.uk/go/watch-engfaculty
Why study the foundation programme at Nottingham?

A commitment to academic excellence drives everything we do at Nottingham and has earned us international recognition. In the latest National Student Survey (2014), Nottingham achieved an overall student satisfaction score of 88%, 2% above the sector average and is one of the most popular universities in the UK among graduate employers*. At the 2015 Whatuni Student Choice Awards, The University of Nottingham was ranked the number one university for job prospects.

The University is placed 77th in the world and in the top 1% of universities internationally by the latest (2014) QS World University Rankings. On the foundation programme, you will have the opportunity to gain the skills and knowledge needed to undertake a degree while studying at a world-class university.

Fully integrated programmes
Unlike some UK universities, the foundation programme at Nottingham is fully integrated into your chosen degree, and is simply counted as year 0 of a four or five-year programme. It will provide you with the best possible grounding for entry onto these programmes, with the topics covered being perfectly matched to subsequent stages of your course. Many of those who teach you on the foundation programme will go on to be your lecturers for the remainder of your undergraduate degree.

Automatic progression
Upon successful completion of the foundation programme, providing you pass at the required level, you are guaranteed progression onto the first year of your chosen degree subject; you do not have to re-apply. Once in year one of your undergraduate degree programme, you will choose either the three-year BEng/BSc or the four-year MEng/MSci. Please see page 15 for details of progression requirements.

Experienced teaching staff
As well as being highly experienced lecturers, our core teaching staff all have backgrounds in research and industry. Having worked for blue chip organisations including the BBC, IMI, Lucas Aerospace, Marconi, Rolls-Royce, and Siemens, they bring real-world relevance to their teaching. Current members of staff also conduct research in the field of electronics and acoustics, recently culminating in the development of a 3D microphone system, used in the making of films including Quantum of Solace, Sherlock Holmes and The Hobbit. The system has also been adopted by Sky Television for use in all outside broadcasts, and was used for ambient feeds at the 2010 World Cup and the 2012 Olympic Games.

Progression rates
One of the great successes of the foundation programme at Nottingham is our progression rate to the first year of your chosen degree programme, which is typically 80-90%. These are exceptionally good rates when compared to the UK average of 60% for progression from foundation programmes.

Employment prospects and future study
The foundation programme provides a sound basis for future success and ensures that you are exceptionally well prepared for your undergraduate course. Indeed, many go on to outperform students who enter the degree programme directly.

Of the foundation students who graduated from Nottingham with an engineering degree in 2012, 73% went on to achieve a first-class or upper-second-class honours degree. This compares favourably with first-year direct entry students, of which 69% obtained an upper-second-class honours degree or first-class degree.

Many of our graduates go straight into highly paid consultancy or financial services positions. Equally, you may decide to progress onto postgraduate study and either pursue an MSc or focus on research and study for a PhD. (See page 18 for more information on careers).

Student support
A great strength of the foundation programme at Nottingham is the quality of the care we provide to our students. A team of professional and experienced teaching staff ensure students learn in an environment in which they can realise their true potential, and as well as a personal tutor, we also allocate a mentor to look after each student during the foundation year. Mentors are chosen from trusted and high performing former foundation students who are able to pass on their experiences of student life at Nottingham.

Professional accreditation
All of the degree programmes that the foundation programme feeds in to are fully accredited with the relevant professional organisations, which can lead you on the path to Chartered Status.

Study abroad
As a student at The University of Nottingham, you will be able to apply for a variety of study abroad options. Whether studying at a partner institution or undertaking a work experience placement, spending time abroad is a fantastic opportunity to broaden your horizons, experience different cultures, meet new people and develop skills that will prove invaluable in the future.

As well as exchange opportunities at our campuses in China and Malaysia, we have developed links with more than 300 partner universities in over 40 countries. All teaching is carried out in English no matter which campus you choose.

Beautiful surroundings
Most of your teaching will be based on University Park, a beautiful green campus with rolling parkland, stunning gardens and state-of-the-art facilities. It is just a short bus ride away from Nottingham city centre and with a new tram system going through the campus, it will be even easier to access the delights the city has to offer. Nottingham is also centrally located in the UK, providing the perfect base from which to explore the rest of the country.

Exciting student experience
All international, home and EU students are taught together on the foundation programme, and cover the same course content, ensuring a vibrant and interesting mix of students for you to interact with.

Extracurricular opportunities
We provide a wide range of extra opportunities and activities throughout the foundation programme, including social events, cultural visits and industrial talks and visits, with the aim of bringing your learning to life and giving you the opportunity to enjoy new experiences. Former students have visited companies including Alstom, Tata (Corus) Steel Manufacturers, Coventry Transport Museum, Jaguar Cars, the Lotus Formula One team, the National Railway Museum, Laing O’Rourke and Rolls-Royce Aerospace. We also invite external speakers from industry and academia to give you an insight into the world of engineering and science, and the annual foundation football match is not to be missed!

* The Graduate Market in 2013, 2014 and 2015, High Fliers Research
Student profile

“As a mature student, I hadn’t studied maths or science since my GCSEs. This put me at a disadvantage compared to other students commencing their engineering degrees, and I was quite nervous when I first embarked on this venture. However, the foundation year provided me with everything I needed and more, to make sure I had the ability and confidence to enter the first year.”

Kim Onjun
MEng Mechanical Engineering with Foundation Year
Graduate profiles

Charlie with the E20 Lotus Formula One car.

"The foundation year prepared me in many ways for my MEng in Mechanical Design, Materials and Manufacture. As well as getting me up to speed with the maths and physics required, it gave me very useful knowledge as to how I should tackle university life. Basically it felt like I hit the ground running when I started my first year."  

Charlie Martin  
MEng in Mechanical Design, Materials and Manufacture with Foundation Year

Charlie undertook the Foundation Year in 2006 and progressed to an MEng in Mechanical Design, Materials and Manufacture in 2007, graduating in 2011. He is now a Chartered Engineer and works as a composite design engineer for the Lotus Formula One team.

Abdullah from Jeddah, Saudi Arabia started the Foundation Year in 2009. He progressed to the Department of Mechanical, Materials and Manufacturing Engineering here at the University and successfully completed a BEng degree in Mechanical Engineering in 2013.

"I currently work as an oil and gas process engineer in the world’s largest energy company, Saudi Aramco. The foundation year equipped me with the required tools in terms of knowledge and academic mentality, in order to succeed in the latter academic years and has also reflected positively in my career."  

Abdullah Albaroot  
BEng Degree in Mechanical Engineering with Foundation Year

Abdullah enjoying the sights of New York.

"I completed my previous education in Brazil so the foundation course was a great transition to the UK education system. The course certainly prepared me well to do my engineering degree."  

Verena De Paula Cavalheiro  
MEng in Manufacturing Engineering and Management with Foundation Year

Verena comes from Sao Paulo in Brazil and joined the Foundation Year in 2009, going on to obtain a first-class honours degree (MEng) in Manufacturing Engineering and Management in July 2013. In her final year, Verena worked at Airbus UK (who sponsored her throughout her degree) for four months and was also a finalist in the npower Future Young Leaders of the Year competition 2012. After her degree, Verena changed focus and joined an investment banking company in New York City, USA and now works as an investment banking analyst for INTL FCStone Securities Inc.

Ray pictured in China modifying an 11MW Siemens Drive.

"This year provided solid foundations to begin my engineering career, building strong relationships with undergraduates and lecturers which presented me with a wealth of opportunities I didn’t expect to experience. The course covered a broad range of modules, allowing students to realise their strengths and main interests, thus allowing them to pursue the most suitable engineering discipline."  

Ray Wong  
MEng in Electrical and Electronic Engineering with Foundation Year

Ray joined the Foundation Year in 2007 and obtained his MEng in Electrical and Electronic Engineering in 2011, spending one year of his degree studying at our Malaysia Campus. Throughout his degree, he was sponsored by the multinational company Siemens and after his degree, went to work for them as a Project Engineer in their Large Drives Division in Manchester, where he has gone on to become a Chartered Engineer.
Course content

The foundation engineering and physical sciences programme consists of modules in computer science, engineering, mathematics and physics. The particular modules you study will be determined by the pathway you have chosen and your destination school (the one you wish to progress onto after the foundation programme). For example, if you have chosen to progress onto mechanical engineering you will need to study engineering, maths and mechanics in addition to certain science topics. Please see page 16 for details of the departments you are able to progress on to.

There are certain core (compulsory) modules such as computing and mathematics that are always available, but the optional modules available will vary from year to year. During the first week, staff will be on hand to offer advice and support in choosing the relevant modules that will be suited to you, in order to give you the best possible start for the first year of your chosen degree. Typical modules may include:

**Foundation Mathematics 1 – HG0FM1**
- 20 credits (core)

**Foundation Mathematics 2 – HG0FM2**
- 20 credits (core)

For students on both the engineering and physical sciences pathways, mathematics will form a large part of your undergraduate programme and your future career. The aim of these two consecutive modules is to provide students with confidence in solving mathematical problems. You will develop your mathematical knowledge and understanding of mathematical processes to help solve basic problems in engineering and science.

The modules provide you with techniques in basic and advanced algebra, complex numbers, coordinate geometry and trigonometry, calculus etc and taught at a point comparable to A level and some aspects of A level further mathematics. Learning is through a combination of e-learning courseware, lecture activities, supervised tutorial sessions, and workshop activities.

**Study Skills – H10ESS – 10 credits (core)**
The objective of this module is to develop your study skills in the context of engineering and science, aiming to improve your awareness of research and communication methods, referencing, and presentation skills. Topics covered include effective technical writing through reports, laboratory and skills reports and posters, preparing for exams, and time management.

**Computer Methods – H10ECM – 10 credits (core)**
This module involves the use of a software environment (MATLAB) to help solve engineering and mathematical problems related to the course. MATLAB is a powerful mathematical modelling tool used heavily in industry. You will learn how to break down problems into smaller, manageable tasks, while being introduced to programming techniques. Topics covered include data structures and formats, plotting of graphical data, programming structure and style, and simple file handling.

**Electricity Circuit Principles – H10EMB – 10 credits**
**Electricity and Magnetism – H10EMA – 10 credits**
These two electrical modules will provide basic knowledge of electricity and magnetism, required for entry into the first year of degree courses in the faculties of engineering and science. As the modules develop throughout the year, you will look at a range of component technologies, from passive devices such as inductors and capacitors through to simple semiconductors. In the second semester, topics covered include: AC circuits, circuit analysis techniques and electrical resonance.

**Foundation Mechanics – H10FM1 – 10 credits**
**Further Mechanics – H10FM3 – 10 credits**
These two modules will introduce you to the concept of scalars and vectors, and give you a broad grounding in the basic response of rigid structures to imposed forces. You will also investigate the behaviours of rigid structures under circular and simple harmonic motion. On completion, you will be able to demonstrate your ability to collect, analyse, and evaluate experimental data relating to basic engineering mechanics, as well as solve set problems.

**Molecules on the Move – F30SF1 – 10 credits**
**The Universe – F30AF3 – 10 credits**
These modules are for those of you who choose the physics and astronomy pathway. The Universe will provide you with an introduction to astronomy from the solar system to the Big Bang, covering general physical principles including cosmology, gravitational fields and orbits, observational techniques in astronomy, and stellar evolution. Molecules on the Move will give you an introduction to the thermal and mechanical properties of matter. Both modules are taught using a combination of lectures, workshops and practical lessons.

**English for Engineering and Science A – X10ESA – 20 Credits**
**English for Engineering and Science B – X10ESB – 10 Credits**
International students who require extra support for English language during the foundation programme will study these modules. Topics covered include essay writing, laboratory reports and presentation skills. For more information on English language requirements for the foundation programme, please see page 26.
How will I study?

Course structure
Each full year at university consists of 120 credits. A typical one-year foundation programme will consist of 12 modules, usually worth 10 credits each (some 20 credits). You will take a maximum of seven study modules in each semester, depending on your qualifications when you enter the University.

A 10-credit module typically requires you to study around 42 contact hours, which are broken down into 24 hours of lectures; 12 hours of tutorials/problem workshops; and six hours of laboratory classes. In addition to this, each module requires you to complete coursework and assessments, directed study and reading. In total, each module will consist of at least 100 hours of your time.

The teaching year
The teaching year is divided into two semesters. The first semester lasts for 14 weeks, with 12 weeks for teaching and revision and two weeks for assessment. The second semester follows the same pattern, but there are an additional two weeks at the end to complete the assessment process and to enable returning students to discuss their results with tutors and begin to plan the next session’s work. Although the teaching year is divided into two semesters for organisational purposes, this is fitted into the traditional pattern of three terms: one before Christmas; one between Christmas and Easter; and one after Easter.

Teaching methods
You will be taught through a combination of lectures, workshops, tutorials, practical work, projects and group work. This varied approach will give you the opportunity to learn in both formal and informal environments, and you will receive one-to-one tuition as well as encouragement to take part in group discussions and activities.

Theoretical-based sessions are usually supported by practical workshops where you can gain hands-on experience.

Resources
The foundation engineering and physical sciences programme is supported by a number of schools and departments, and as a student at Nottingham, you will benefit from access to state-of-the-art equipment and staff expertise. The University also has an extensive collection of printed and online library resources. In addition, you will have both on and off-campus access to a very wide range of databases, ejournals and ebooks relevant to your studies.

Extra support
All students are allocated a personal tutor, with whom you will meet regularly to discuss any issues and to get advice and support. You will also be allocated a student mentor, who is a volunteer ex-foundation student, to guide you through the foundation year. All tutorials are undertaken in small groups and extra small group support, especially in mathematics, is run throughout the year.

Key Information Sets
Key Information Sets (KIS) are comparable sets of information about full or part-time undergraduate courses and are designed to meet the information needs of prospective students. All KIS data is published on the Unistats website: www.unistats.co.uk

For Nottingham’s KIS data, please see individual course entries at www.nottingham.ac.uk/ugstudy

How will I be assessed?

All modules are assessed through a combination of examinations and coursework. Typically, examinations count for around 60% of the module mark while the coursework mark (40%) is usually created from a series of smaller laboratory reports, tutorial exercises and self-directed research projects.

Most modules consist of:
• 60% final examination
• 40% coursework, which may consist of a combination of laboratory submissions, assignments, progress tests and mid-term exams

Coursework is designed to reinforce principles taught in class and therefore forms an important part of the whole learning experience.
Progression opportunities

Successful completion of the foundation programme leads on to around 90 different degree courses at The University of Nottingham.

The degree you choose to take following the foundation programme depends largely upon the modules you select to study. Most students are able to delay making their final choice until the second semester of the foundation programme.

Science routes
Students are able to progress from the foundation programme onto courses in the following disciplines within the Faculty of Science:
• Computer Science*
• Mathematical Sciences*
• Physics and Astronomy

If you would like more information on the undergraduate degree programmes available to you, please contact us using the details on page 30.

* There are some degree routes that have additional progression requirements. Please see our website for an updated list: www.nottingham.ac.uk/engineering/foundationyear

Engineering routes
Students are able to progress from the foundation programme on to courses in the following disciplines within the Faculty of Engineering:
• Architecture and Built Environment*
• Chemical and Environmental Engineering
• Civil Engineering
• Electrical and Electronic Engineering
• Mechanical, Materials and Manufacturing Engineering*

In order to progress onto year one of your chosen undergraduate degree programme, for most routes you are required to pass the foundation programme and obtain a 50% course average at the first attempt.

You are allowed to ‘compensate’ a limited amount of modules, for example, if you fail a module (get less than 40%) and your overall average is acceptable you can still pass the course. However, ‘compensation’ is not allowed between certain core modules, for example, mathematics for engineers (engineers must pass all of the mathematics modules).

If you pass the foundation programme with the required modules but with an average of between 40% and 49%, you will not be eligible for guaranteed progression onto the first year. You will instead be considered on an individual basis by destination schools. This is similar to Clearing within the UCAS system. If we think that you are likely to be in this situation, we will talk to you as early as possible in the year and make sure that you are aware of the situation and your different options.

In the unlikely event that you do not meet the progression criteria at the end of the foundation programme, you will be offered the opportunity to re-sit modules in order to pass the foundation certificate. Please note that if you are in this situation, automatic progression will not be guaranteed.

For successful progression, students must obtain an overall course average of 50% at the first attempt, and meet the following module criteria for the pathways specified below:

<table>
<thead>
<tr>
<th>School</th>
<th>Module requirements</th>
<th>Module grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science</td>
<td>Computer Methods (H10ECM)</td>
<td>60% and over</td>
</tr>
<tr>
<td></td>
<td>Second semester mathematics module (HG0FM2)</td>
<td>50% and over</td>
</tr>
<tr>
<td>Engineering</td>
<td>Mathematics modules (HG0FAM and HG0FCA)</td>
<td>40% and over (with no compensation)</td>
</tr>
<tr>
<td></td>
<td>English modules (X10ESA/ESB)*</td>
<td>Average of 40% and over</td>
</tr>
<tr>
<td>Mathematical Sciences</td>
<td>Mathematics modules (HG0FAM and HG0FCA)</td>
<td>Average of 60% and over</td>
</tr>
<tr>
<td></td>
<td>English modules (X10ESA/ESB)*</td>
<td>Average of 55% and over</td>
</tr>
<tr>
<td>Physics and Astronomy</td>
<td>Mathematics modules (HG0FAM and HG0FCA)</td>
<td>Average of 60% and over</td>
</tr>
<tr>
<td></td>
<td>English modules (X10ESA/ESB)*</td>
<td>Average of 55% and over</td>
</tr>
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</table>

* If applicable.
Department of Architecture and Built Environment
The Department of Architecture and Built Environment is ranked as a UK top 15 architecture department in The Complete University Guide 2016, and is a leading centre for teaching and research in architecture, building services, sustainable energy technologies and urban design. The work of our in-house staff is enriched through contributions made by leading experts from practice and industry. Our associations with UK and international companies ensure graduates have excellent prospects for employment, research training and professional recognition.

Department of Chemical and Environmental Engineering
The Department of Chemical and Environmental Engineering is recognised as one of the best in Europe. The department maintains strong links with industry, enabling students to work on interesting, real-life technological problems alongside their academic work. With first-class teaching facilities, a mix of interesting teaching techniques and a dedicated careers fair allowing you to engage with major global employers, the department aims to produce graduates who are fully prepared for the challenges of industry.

Department of Civil Engineering
The Department of Civil Engineering was awarded a top 20 place in The Complete University Guide 2016 and top 15 place in The Guardian University Guide 2016. The department is recognised for its world-class learning environment, which has dedicated teaching laboratories for fluid mechanics, geotechnics and structures, and has recently benefited from a £1.5m upgrade. Strong links with industry enable the department to arrange a variety of summer and year-out placement opportunities for students.

Department of Electrical and Electronic Engineering
The Department of Electrical and Electronic Engineering holds a UK top 20 ranking according to The Guardian University Guide 2015 and Nottingham is also ranked as a world top 75 university for Engineering and Technology by The Times Higher Education World University Rankings 2014-15. All degrees are accredited by the Institution of Engineering and Technology. The department's excellent links with industry enables us to arrange a variety of summer and year-out placement opportunities.

Department of Mechanical, Materials and Manufacturing Engineering
The Department of Mechanical, Materials and Manufacturing Engineering is one of the leading departments of its kind in the UK and is ranked 7th in The Times Good University Guide 2015. We provide the opportunity to gain hands-on experience in excellent facilities. Our close involvement with industrial partners including Airbus, Rolls-Royce and Ford, ensures that teaching in the department has both relevance and meaning.

School of Mathematical Sciences
The School of Mathematical Sciences is a large, dynamic place to study, providing state-of-the-art facilities and undertaking internationally leading research. As a student here, you will join a welcoming academic and social community of staff and students from all over the world. Students have access to a £5m high performance computing (HPC) facility that allows researchers to perform calculations 100 times faster than normal.

School of Physics and Astronomy
We run one of the most popular undergraduate physics programmes in the country. Our teaching has been rated 'excellent' and in the recent Research Excellence Framework (REF 2014), in which the research quality of all UK higher education institutions has been assessed, we were placed joint third of all the physics departments in the country. We pride ourselves on being a centre that is internationally recognised for the quality of our teaching and research. In 2003 Sir Peter Mansfield, a former member of academic staff in the school, received the Nobel Prize for Medicine for the development of Magnetic Resonance Imaging (MRI).

School of Computer Science
The School of Computer Science provides a friendly, modern and supportive teaching environment, which consistently leads to a high proportion of our students gaining excellent degree results. The school has strong connections with employers such as Adobe Systems, BT, Google, IBM and Microsoft, all of which open up possibilities for an optional year in industry or summer placement. As an undergraduate in this school, you will also have the opportunity to undertake research in a variety of areas of computer science including: artificial intelligence; cloud computing; functional programming; modern optimisation; simulation and modelling; and ubiquitous computation and networked infrastructures.
Career and employment prospects

The University of Nottingham is consistently named as one of the most targeted universities by Britain’s leading graduate employers* and our graduates benefit from our world-class reputation and links with industry and commerce.

Graduate career destinations
Nottingham graduates are highly sought after worldwide and our degrees are internationally recognised. Many of our graduates go on to enjoy a career in engineering or science, while others also obtain managerial positions or go into the world of business. Some progress to higher degree courses in other departments or institutions; or choose to go onto business schools and study for a Master of Business Administration (MBA).

The vast majority of our students choose to continue with their undergraduate studies at Nottingham following the foundation programme. However, there is the option to use our foundation qualification to help gain entry to other world-class institutions. In practice very few students take this option but some have used the programme as a springboard to enter other institutions including The University of Bristol, Imperial College, University College London, and The University of Manchester.

Average starting salaries
The average starting salary for 2014 first-degree graduates:

- Department of Architecture and Built Environment was £19,160 (highest £31,000)**
- Department of Chemical and Environmental Engineering, £26,469 (highest £40,000)**
- Department of Civil Engineering, £24,637 (highest £40,000)**
- Department of Electrical and Electronic Engineering, £26,900 (highest £32,000)**
- Department of Mechanical, Materials and Manufacturing Engineering, £26,875 (highest £45,000)**
- School of Computer Science, £25,853 (highest £45,000)**
- School of Mathematical Sciences, £24,388 (highest £50,000)**
- School of Physics and Astronomy, £23,046 (highest £30,000)**

* The Graduate Market in 2013, 2014 and 2015, High Fliers Research.
** For 2013/14 full-time, first-degree home and EU graduates who declared a salary.
Your student experience

You’ve read lots about the degree programme you’re interested in, now it’s time to explore life outside the lecture theatre. There’s so much for you to get involved in and explore at the University and around the city. We are proud to be one of the leading universities for student experience in the UK*, which will ensure that you have a university experience you’ll never forget.

Your University of Nottingham – at home and around the world

We are proud of our stunning campuses and are continually investing in our grounds, buildings and amenities to ensure that you only have the best surroundings in which to live and study. Our main UK campuses have a mix of state-of-the-art facilities, including sports centres, places to eat and excellent learning facilities on every campus.

We’ve made getting from campus to campus as easy as possible and students can benefit from our free inter-campus Hopper Bus, so you’re never far away from the striking architecture and innovative technology of Jubilee Campus, the rolling parkland and period buildings at University Park, or the cutting-edge features of Sutton Bonington.

The University of Nottingham is Britain’s global university with campuses in the UK, China and Malaysia. We also have links with more than 300 universities in over 40 countries, adding a truly global flavour to your degree and giving you the chance to explore the world. Find out more: www.nottingham.ac.uk/about/campuses

Your new home from home

At Nottingham we offer a range of different accommodation options, rooms are available as single or shared, en suite or shared bathroom, all the way through to studio flats, and vary from self-catered to fully catered (19 meals per week).

We also offer a guarantee of University accommodation for one year to all new full-time undergraduate students, subject to the following conditions: you firmly accept your course place at Nottingham, accept your offer of accommodation by the deadline given in your offer letter, and have an unconditional status no later than 31 August in the year you intend to begin your studies. If you are a new, full-time undergraduate student who is classified as international for fee purposes, this guarantee applies for three years**. For more information, including a breakdown of pricing, see www.nottingham.ac.uk/accommodation

Your support network

Throughout your university journey there will be numerous people on hand to support you, including tutors and dedicated staff who will be able to advise you on various aspects of life as a student.

We have Student Services Centres on all three of our UK campuses, which provide a range of support, information and specialist services to enhance your student experience. This support includes:

- **Academic Support** – can provide practical advice on areas of academic study; the service also provides specialist academic support for students with dyslexia, dyspraxia and other specific learning difficulties
- **Disability Support** – coordinates support and access arrangements for students with a disability or long-term medical condition
- **Financial Support** – provides information on the sources of finance available from government agencies and the University itself, and gives advice about financial matters
- **Student Services** – also advise on issues ranging from childcare, counselling and health to international student support, chaplaincy and faith support, as well as offering advice on paying your tuition and accommodation fees

Whatever you may need support with, they will either be able to help or point you in the direction of someone who can. Find out more: www.nottingham.ac.uk/studentservices

** Providing you submit your returners’ application in line with the requirements of the accommodation providers.

Take a look at our accommodation video for a taster of what to expect at Nottingham: www.nottingham.ac.uk/go/yourhome

Undergraduate students studying in Cripps Hall dining hall, University Park.
Getting involved in your Students’ Union
As soon as you start at The University of Nottingham, you are automatically enrolled as a member of our Students’ Union, which is considered to be one of the best in the country. There are hundreds of activities that you could be part of, providing you with the perfect opportunity to take up a new hobby or pursue existing interests. Choose from over 200 student-run societies, covering all interests and abilities, as well as local and national volunteering projects, to which you can commit as much or as little time as you wish.

Our Students’ Union is home to a number of award-winning student-run media groups, which give you the chance to gain practical work experience both behind the scenes or centre stage as a presenter, actor or journalist. The Nottingham New Theatre, Impact magazine, Nottingham Student Television (NSTV) and University Radio Nottingham (URN) have all been recognised as the best in their field, winning a clutch of awards for outstanding achievements. However you decide to become involved in the Union, you can be sure you will make new friends and learn new skills, all while having a lot of fun!

Find out more: www.su.nottingham.ac.uk

Exploring your new city
With Nottingham city centre just a 10-minute bus ride away from University Park Campus, our students are always close to the action. Buses run through campus regularly and many run late-night services too, which is handy if you’re a night owl.

For music lovers, you can take your pick from the world-famous Rock City, Capital FM Arena or one of the smaller gig venues for a more intimate live show. Nottingham is rich in performance venues, with comedy clubs and theatres catering for lovers of drama, music, ballet and panto. We are very proud of our sporting heritage, and with football clubs Nottingham Forest and Notts County in the city, as well as Trent Bridge cricket ground and the National Ice Centre on your doorstep, you might just become a sports fan if you’re not one already.

History and culture can be found in all corners of the city, with Nottingham Castle, Nottingham Contemporary arts centre, the Galleries of Justice Museum, Nottingham Lakeside Arts (the University’s public arts centre located on our University Park Campus), art house cinemas and three of the world’s oldest pubs all providing points of interest. If you enjoy shopping, Nottingham is perfect for you; independent boutiques and vintage shops in the bohemian area of Hockley mix with high street names in our large shopping centres to make Nottingham a veritable shopping haven.

Find out more: www.nottingham.ac.uk/nottinghamlife

Download our city guide: www.nottingham.ac.uk/go/cityguide

“Linked forever to Robin Hood and his merry band of men in Lincoln green, Nottingham today is a dynamic mix of medieval and modern... The city boasts fashion designer Paul Smith as one of its own, while the clubs and bars are some of the liveliest in the country.”

Lonelyplanet.com
Applying for a place

Application process
Applications for an undergraduate place to study at The University of Nottingham can be made in one of two ways depending on where you are applying from:

Home/EU applicants
You should apply via the Universities and Colleges Admissions Service (UCAS) using the institution code N84 and UCAS code H100 (September start). Applications should be made online via www.ucas.com. Candidates will be notified of decisions via UCAS Track: track.ucas.com

International applicants
You are encouraged to apply directly to the University using the application form, available at www.nottingham.ac.uk/ugstudy/foundationinternational Alternatively, you can apply through UCAS using the institution code N84 and UCAS code H10Y (September start). International students who apply with course code H10Y take exactly the same course as H100 students, and have the same guaranteed progression to the first year of their chosen degree course (subject to achieving the foundation progression requirements). This ensures that the foundation year does not count in the length of time that you are allowed to complete your degree studies.

For tips and advice at every step of your application journey, visit our undergraduate applicants’ area: www.nottingham.ac.uk/ugapplicants

Your personal statement
This is the section of your UCAS form that tells us the most about you, and you should make the best use of it. We would like to see that you are a student who can work hard, be self-motivating and make the best possible use of the opportunities this course might have to offer you. You should use this opportunity to explain why you wish to progress on to the degree of your choice.

For more information on how to make your application stand out, have a look at our online prospectus: www.nottingham.ac.uk/ugstudy/applying/applicationprocess

Academic entry requirements
Engineering pathway
Our standard requirements for the engineering pathway are BBB at A level (any A levels will be considered), 30 at International Baccalaureate (IB), or equivalent*. You must also possess mathematics and physics (or double science) at GCSE (or equivalent) level, both at grade B, and a grade C in GCSE English or equivalent.

Physical sciences pathway
For the physical sciences pathway, our standard requirement is BBB at A level, 30 at International Baccalaureate (IB), or equivalent*. For this pathway we will not accept any applications from those students who have the correct combination of qualifications that would allow direct entry onto the first year of the desired destination course. You must also possess mathematics and physics (or double science) at GCSE (or equivalent), plus three other subjects at GCSE, all at grade B, and a grade C in GCSE English or equivalent (this may be one of your three other subjects).

* For applications from EU citizens and international students (non-UK) – please visit our international office website at www.nottingham.ac.uk/go/yourcountry for accepted qualifications from your country. You will also need to possess an English qualification equivalent to a grade C at GCSE.

Entry numbers
Entry numbers vary from year to year. For the September intake there are around 100 engineering students and 35 physical sciences students. The student population is typically made up of around 50% home/EU and 50% international students.

Mature applicants
We encourage applications from mature students (which means all those aged 21 or over when the course begins). Mature students who hold non-standard qualifications may also be considered for entry to the programme. Typically, students offering recent study qualifications (such as A levels, Access or a BTEC) in a science-related area would be considered.

Students will need to show an aptitude for mathematics and science and may be invited for interview, where we will look for evidence of your ability to study at a high academic level and of commitment to the subject. If in doubt, please contact the admissions tutor, who will be happy to answer any specific queries you have about applying as a mature student. Please email your questions to leah.ridgway@nottingham.ac.uk.

For more information about being a mature student, please see www.nottingham.ac.uk/mature
International applicants
We welcome applications from international students and have students from many parts of the world studying with us at undergraduate and postgraduate level.

All international candidates for the foundation course can apply directly to us via our website, or through UCAS using the course code H10Y. The University's International Office offers guidance and advice on matters such as visa and immigration regulations, working and living in the UK, entry requirements and preparing for coming to Nottingham – and arranges a Welcome Programme for new international students each September.

If you would like to visit the University and are unable to attend an open day, the International Office will be happy to arrange an individual visit for you. For further information please visit www.nottingham.ac.uk/studywithus/international-applicants

English language requirements
International students who already hold the approved English language qualification (eg IELTS) at the correct level for direct entry to year one of their chosen degree pathway do not need to take additional English modules on their foundation programme.

Students who enter the foundation programme with an IELTS 5.5 (no element less than 5.5) or equivalent will be required to take English language modules during the foundation programme.

The UK government has announced important changes to Secure English Language Tests (SELT) for visa purposes and all IELTS will need to be obtained from an approved test centre.

For more information about alternative English language requirements we accept, please see www.nottingham.ac.uk/go/alternativerequirements

Preparing to study in English – academic English preparation and support
The University of Nottingham Centre for English Language Education (CELE) offers high quality academic English and study skills (presessional) programmes to prepare you to study your degree in English. Our programmes are designed to give international students excellent preparation for their academic studies and are taught by experienced, professional tutors.

CELE provides a range of programmes throughout the year, including five-week subject-specific courses (in some subjects) and a four-week course in September for students with unconditional offers, with a focus on academic study skills.

You can continue to benefit from academic English support with free classes and one-to-one consultations throughout your study (insessional programmes).

For more information about CELE, please visit www.nottingham.ac.uk/cele

Flexible admissions policy
In recognition of our applicants’ varied experience and educational pathways, we employ a flexible admissions policy. If we judge that your situation has adversely affected your achievement, then we will consider this when assessing your academic potential. If you wish to mention information about your experiences in your personal statement, then you should ask the teacher or tutor writing your reference to confirm what you have written. We may ask for further evidence and may consider a range of factors. For more information, please see www.nottingham.ac.uk/go/admissionspolicies

Deferred entry
Applicants who wish to defer their entry by a year will not be at a disadvantage. Please tell us something about your plans for your gap year in your UCAS personal statement.

Equal opportunities policy
The University aims to create the conditions whereby students and staff are treated solely on the basis of their merits, abilities and potential, regardless of gender, race, colour, nationality, ethnic or national origin, age, socio-economic background, disability, religious or political beliefs, trade union membership, family circumstances, sexual orientation or other irrelevant distinction.
How much are the fees?
Like many universities in England, Nottingham charges full-time UK and EU students an annual tuition fee of £9,000. However, you will not have to pay your fees while studying – the government will lend eligible students the money, which you will start to pay back once you have left university and are earning at least £21,000. For more information, please see www.nottingham.ac.uk/fees

Fees for students from outside the EU vary from subject to subject. For more information, please see the ‘New international students’ section on www.nottingham.ac.uk/fees

What bursaries are available?
Although bursary figures for 2016/17 are yet to be finalised, the University will continue to offer a generous package of bursary support to students from lower income households. These are in addition to any support you may receive from the government. For more information please see www.nottingham.ac.uk/financialsupport or take a look at the funding tab on the relevant course entry in our online prospectus: www.nottingham.ac.uk/ugstudy

If you are an international applicant (outside of the EU), please see the ‘New international students’ section on www.nottingham.ac.uk/fees

The foundation programme has an annual BP scholarship of £20,000. This will be awarded as a cash prize to foundation students who make an outstanding contribution to the foundation course.

For more information on bursaries and scholarships please see www.nottingham.ac.uk/financialsupport

What support is available for students with children?
There are a range of services provided to support students with children, including a University day nursery, a playscheme and playcentre day care. There is also a scheme to help students fund childcare. For more information, see www.nottingham.ac.uk/child-care

What support do you offer for students with disabilities?
We are committed to promoting access for students who have a disability, dyslexia or a long-term medical condition. Services provided by the University aim to enable students to fulfil the inherent requirements of the course as independently as possible. The University’s Disability Statement, which lists services, facilities and opportunities available throughout the University can be viewed at www.nottingham.ac.uk/disability

For more frequently asked questions please see our website: www.nottingham.ac.uk/engineering/foundationyear
Visiting and contacting us

Open days
If you’re considering applying to The University of Nottingham we recommend that you try to attend one of the University-wide open days, which are held in June and September each year and attract around 30,000 visitors. Find out more: www.nottingham.ac.uk/opendays

Mini open days
Mini open days are much smaller than the main open days but offer the same opportunities to attend various talks and tours as well as speak to current students and academics. Find out more www.nottingham.ac.uk/go/miniopendays or call +44 (0)115 951 5559.

UCAS visit days
Once you’ve been offered a place at Nottingham, you will be invited to attend a UCAS visit day, which is an opportunity for you to visit the department and to find out more about your chosen course. You will also be given a short tour of the campus by current students.

Virtual open day
If you can’t attend one of our open days in person, or would like to explore our campuses before visiting, take a look at our virtual open day: www.nottingham.ac.uk/virtualnottingham

Other visits
If you wish to make an informal visit to the University prior to applying here, you are welcome to do so, but you should contact us in advance if you wish to visit the department or speak to an admissions tutor, and we will do our best to oblige.

Contacting us
For further information please contact:
Foundation Office, ESLC C02
Engineering and Science Learning Centre
Faculty of Engineering
The University of Nottingham
University Park
Nottingham, NG7 2RD
t: +44 (0)115 951 3882
e: foundation.year@nottingham.ac.uk
w: www.nottingham.ac.uk/engineering/foundationyear

For international student enquiries, please contact:
The International Office
t: +44 (0)115 951 5247
t: +44 (0)115 951 5155
e: international-office@nottingham.ac.uk
w: www.nottingham.ac.uk/international

You can also connect with fellow applicants and current students on our applicants’ Facebook and Twitter pages:

The University of Nottingham has made every effort to ensure that the information in this brochure was accurate when published. Please note, however, that the nature of the content means that it is subject to change from time to time, and you should therefore consider the information to be guiding rather than definitive. You should check the University’s website for any updates before you decide to accept a place on a course.

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