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INTRODUCTION

Electronic Engineering drives our world of new technologies. Devices designed by Electronic Engineers feature in all aspects of modern life, including computers, mobile phones, robotics, the internet, digital television, satellites, aerospace, medical scanners, security systems and sustainable energy. Engineering degrees are a fascinating and challenging choice, with well-qualified graduates being in high demand in global industries.

The University of York is one of the leading institutions for the study of Electronic Engineering. Our Department is working on applications in wireless communications, aerospace, biologically-inspired computing, music systems, building acoustics, assistive technology for the disabled, three-dimensional imaging, machine vision, and broadcast engineering – to name but a few. This diversity is reflected in our wide selection of IET accredited engineering courses, which are broadly based leading on to a range of specialised advanced options. Our courses are both demanding and innovative, giving our graduates a proven advantage in the employment market. We place great importance on teaching and scored the maximum 24/24 in the Teaching Quality Assessment. Teaching is carried out via a mixture of lectures, small group tutorials, laboratories and individual and group project work. York has a particular reputation in the use of small group teaching and personal supervision by academic staff.

All courses begin by providing students with an understanding of the basic principles of electronic engineering, whilst developing their skills in maths and computing. Modules then combine these fundamental elements into systems that meet the needs of particular applications. Options provide the additional ability for students to explore their own individual interests.

Running through all courses is a significant portion of project work. In early years, group design/project work is incorporated into many of the modules. In later years, a team software engineering project enables students to simulate operating as a commercial business. Final year students have substantial individual projects, sometimes out in industry. The Department fully recognises the vital nature of this kind of supervised study to prepare students for the world of work. In turn, we have a widely recognised reputation for producing high quality graduates with skills relevant to a range of career paths.

Complementing the courses, the Department and University offer excellent facilities and a pleasant campus environment. The Department has recently spent £1.5 million on enhancing its laboratories and possesses its own computing laboratory and industry-standard digital media and recording studios. The University also has a new £6.5 million Nanotechnology Research Centre. New students are housed on campus which offers a variety of competitively priced accommodation, so that accessing the Department is normally only a few minutes walk. Numerous student societies offer something for everyone, including the ‘ShockSac’ Electronics Society, television and radio stations (YSTV and University Radio York), a film society and a whole host of sporting and leisure activity groups. The vibrant centre of historic York is just fifteen minutes away.
Course Structure

Illustrated below is the course structure for the four-year MEng degree course in Electronic Engineering.

All of our courses have a similar structure, with a common core of electronics material in the BEng/MEng courses. As each course progresses, there is substantial flexibility with a choice of options providing the “flavour” for each of the specialities.

Alongside the core and optional modules, we regard projects as a vital element of our courses and students will be involved in projects throughout their time with us. Group projects are introduced in the early years, with the content relating to the student’s particular course.

In the third year MEng students carry out a major team project in which they have to produce to commercial standards a significant software package. All final year students carry out an individual project which provides a significant contribution to the final degree marks.

The structure of the BEng Honours degree course is identical to that of the MEng for the first two years, but involves a shorter individual project and smaller range of subjects and options in the final year.

COURSE LIST

BEng/MEng Electronic Engineering*
BEng/MEng Electronic and Computer Engineering*
BEng/MEng Electronic Engineering with Nanotechnology*
BEng/MEng Electronic Engineering with Music Technology Systems*
BEng/MEng Music Technology Systems*
BEng/MEng Electronic and Communication Engineering*
BEng/MEng Electronic Engineering with Business Management*
BEng/MEng Electronic including Foundation Year (4 year)

BEng courses are three-year programmes unless otherwise stated. MEng courses are four-year programmes.
* These courses can be taken with an additional year in industry
Please see the website for UCAS codes and further details

CORE SUBJECTS INCLUDE:

- Analogue Circuit Design
- Communication Systems
- Electromagnetic Waves, Transmission Lines and Noise
- Design Projects and Laboratory Practical
- Mathematics

ADVANCED SUBJECTS INCLUDE:

- Mobile Communication Systems
- Bio-Inspired Computation
- Electronics for Medicine
- Emerging Nanotechnologies
- Cloud and Distributed Computer Systems
- Sensors and Instrumentation
- Strategic Management
- Internet and LAN Protocols

- Digital Circuit Design and Programming
- Software Engineering and Programming in Java/C
- Signals and Systems
- Control Engineering
- Business Management
- Mobile Applications
- Robotics
- Processors for Mobile Devices
- Wired and Wireless Transmission
- Information Storage and Spintronics
- Photonics and Nanophotonics
- Accounting and Finance
- Algorithms and Numerical Methods
IET Accreditation

All our degree courses are accredited by the Institution of Engineering and Technology. An accredited course is one that the IET counts as an acceptable part of the training requirements for Chartered Engineer status. Graduates with good degree results are eligible to become a Member of the IET. Please note that only MEng courses meet the full requirements for Chartered Engineer status – they also provide the entry route to the European award of Euro. Ing.

All of the courses at York have been accredited as approved training by the IET, making them instantly recognisable to employers as high quality engineering degrees. At the last IET evaluation, the Department was awarded full accreditation for all degree courses, and has been recognised by an award for 25 years of accreditation.

In addition, the Department of Electronics is an Academic Partner of the IET. This means that all students are automatically student members of the IET and have all their membership fees paid.

Teaching Quality

All UK University Departments are evaluated by the government’s Quality Assurance Agency as part of a regular ‘Teaching Quality Assessment’ exercise. This involved a group of assessors examining every aspect of the Department and its approach to teaching, and then assigning a series of scores to provide some measure of the quality of that department. The Department of Electronics at York scored the highest possible rating of 24/24.

Athena SWAN

Athena SWAN is a Charter that recognises and celebrates good employment practice for women working in science, technology, engineering and mathematics. The Department is one of the very few Electronics departments in the UK to hold a Bronze award.

Course Variations & Sandwich Year

BEng degrees are three year courses leading to the award of Bachelor of Engineering. For the extensive final year project, they may be sponsored by one of our industrial contacts: the work takes place in our laboratories, tackling a problem defined by the industrial sponsor, with whom the student will have frequent contact.

MEng (Integrated Masters) degrees are four years in duration and lead to the award of Master of Engineering. Along with the inclusion of more advanced topics, the final year includes a substantial 5-month project, often carried out at an industrial sponsor. The project is jointly supervised by the sponsoring company and the Department: the marks awarded form a significant percentage of the final degree award. Sponsoring companies are arranged by the Department in conjunction with the student. Alternatively, students may carry out their final year project with one of our academic research groups.

MEng courses are particularly appropriate for those wishing to enter careers in research and design, or those with specialised interests e.g. Computing, Communications, Music Technology or Business Management. They are also important for those wanting to pursue opportunities in Continental Europe where employer expectations are for graduates with long periods of training. We believe that the four-year courses offer an enhanced learning experience and are the ideal route forward for many students.

Sandwich Year options are available on all of our degree courses, where one year is spent on an industrial placement that contributes towards the final degree. For Bachelors courses, this is between the second and third years of the degree course i.e. 2:1:1. For MEng courses, students can take the sandwich year after either the second or the third year of the course, allowing 2:1:2 or 3:1:1. The Department gives assistance in finding a suitable sponsor and a member of the academic staff will visit the student during their placement. Students find the experience gained invaluable in determining career options and often students have found that placements lead to job offers on graduation. Some companies are also prepared to sponsor students for all or part of their studies.

Changing Courses

The Department offers a wide range of degree courses in Electronics and related subjects. You may find once you are here that you have a strong bias towards Computing, Communications or one of our other streams, or that you wish to take a Sandwich Year. The courses have been carefully structured to allow transfers. Usually it is possible to transfer from one course to another during the first year and in some cases during the second, if all prerequisites have been met. It is also simple to transfer from BEng to MEng variants of the same course at any time during the first two years. Progression from the second to the third year of the MEng degree is dependent on satisfactory academic progress.

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Pete Dickson
Fourth year student, MEng in Electronic Engineering with a sandwich year

“The first year offers a wide range of topics to give a well-rounded introduction to the field of electronics, whilst in the second year you get the satisfaction of really starting to see your knowledge come together. The module structure is well-rounded and organised, with many inter-module links and experiences. I decided to take a year in industry early in the course after hearing feedback from students about the benefits it gave them not only in career prospects, but also in personal development. The department supported me in obtaining a placement provided valuable experience for my degree and future career.”
Having recently concluded a £1.5 million building and re-equipment programme, the Department of Electronics aims to give students the best possible teaching environment. Housed in a complex of purpose-built buildings, we are conveniently located in the centre of the campus and all areas are accessible by ramp or lift.

In addition to well-equipped lecture theatres, the Department has the following specialised facilities:

### Teaching Laboratories

The Electronics teaching laboratories have been completely re-equipped and extended at a cost of over two hundred thousand pounds. In addition to software in the Departmental Computing Laboratory, the following specialised equipment and purpose built teaching aids, including:

- **Network analyser, spectrum analysers and synthesised signal sources for radio frequency engineering laboratory work**
- **CPLD and FPGA micro-controllers for hardware aspects of digital and computer engineering**
- **Clean room and device fabrication facilities and electron microscopy in conjunction with our Nano-fabrication Centre**
- **Purpose built digital communications hardware simulators**
- **Design and fabrication facilities for unmanned aerial vehicles for practical work in avionics**

First year students undergo an intensive introductory laboratory programme at the beginning of their course, designed to familiarise them with equipment they will be using and develop key skills. These include fault finding techniques, soldering exercises and circuit prototyping and PCB manufacture.

For project work in all years, students have access to the Advanced Digital Manufacturing Laboratory. A new student project laboratory has also been created and fitted out with an entire suite of new PCs and iPad / iPhone workstations to extend the provision already available in the department’s own extensively equipped computing laboratory.

### Advanced Digital Manufacturing Laboratory

The Department has invested over a hundred thousand pounds in a Digital Fabrication Laboratory: a combination of low cost consumer grade Fused Deposition Modelling to high resolution Stratasys (28-micron) liquid photopolymers.

The laboratory is equipped with a range of Xilinx design tools and FPGA based hardware platforms. These are used to provide practical hands-on experience with digital design, microprocessor architectures and embedded systems.

As well as access to their central filestore and email, Electronics students also have access to additional filestore for use in group projects, assessments and laboratories, helping to promote teamwork and interpersonal skills. The filestores are accessible on-campus via both wired and wireless hotspots, off-campus via an ISP and on-campus study bedrooms via the Student Network Service. Electronics students have exclusive access to the laboratory 24 / 7. This is in addition to 24 / 7 access to campus computer classrooms. Technical support is provided by our own departmental Computer Support Group.

### Recording Studios

The Department has two recording studio suites consisting of three control rooms, two live rooms and two editing DAW rooms. A dedicated gigabit network allows the transfer of audio, video and data between the Recording Suite and the Digital Media Suite. This provides a fully integrated multimedia production environment, enabling full audio–for–video production work for both teaching and research-based activities.

One control room is a traditional analogue recording interface with the latest digital recording technology. Other control rooms are designed for digital audio/video postproduction and surround-sound work. A full HD projector and Blu-ray player is installed also for audio post production work. The two DAW rooms duplicate studio facilities and are used for detailed work and mastering.

When the Recording Studios are not in use for teaching purposes, they can be booked for assignments or personal use. A wide range of location recording equipment is also available. Full descriptions of all the equipment in each of the Recording Suite rooms can be found on our web pages.
Department Facilities

Digital Media Suite
The Digital Media Suite is a professionally designed facility providing industry standard production and post-production tools. Workstations are equipped with broadcast quality non-linear video-editing systems (Avid Media Composer and Sony Vegas) and a comprehensive range of major 2D graphic, 3D graphic, compositing programs from Adobe, Autodesk and Discreet. DVDs and CD-ROMs can be burned in-house, complete with Dolby 5.1 Surround Sound encoding. The Suite also has the same audio software and hardware and shares a high-speed local area network with the Recording Studios enabling powerful distributed rendering of graphics, composite effects and intensive audio processing. Like the Recording Studios, the Suite is used for teaching purposes but can be booked by related students.

Video Production Equipment
Relevant students have access to a comprehensive range of camera, lighting and grip equipment for location production. Packages include professional DV and HD cameras by Canon and AVC, T-20 DP field lighting kits, Manfrotto fluid head tripods and a range of grip equipment by Matthews, Avenger and others, providing complete production support.

Nanotechnology Research Centre
This multi-million pound facility represents a major long term collaboration between the University of York, Yorkshire Forward and JEOL UK Ltd., world leaders in electronic optics. In addition to supporting world class research activities, we offer undergraduates on the Electronic Engineering with Nanotechnology programme the opportunity to use the centre’s highly specialised facilities for project and other work.

Student Societies
The University offers a huge variety of student societies for all manner of leisure and sports interests – details can be found at www.yussu.org/societies. The following may be of particular interest to our students.

ShockSoc
ShockSoc is a society that gets people in the Department together, for both social and academic events. It is a society that was formed in 2009 as a result of one of our first-year students reading about the ‘Q Factor’ – a staff/student battle of the bands and ‘SpaceWire’ – a talk about engineering in space. After this talk, they got the idea of sending something into space – which is now their long-term project. To find out more see www.facebook.com/shocksoc or email shocksoc@yussu.org.

Common Features of the Degree courses

Languages for All: Under the ‘Languages for All’ scheme run by the University, students can opt to study a wide range of languages at all levels from beginner onwards. Successful completion of a language option is recorded on the final degree certificate.

York Award: All undergraduates at the University have the option to join the York Award, a scheme aimed at providing further learning opportunities and to assist with the transition into later employment. It is a structured programme for skills and personal development offering courses in Communication, Career Management and other areas. The award further recognises skills gained through paid and voluntary work experience.

Study Abroad: There are opportunities to study for a part of the course in an overseas university. Currently arrangements exist through the ERASMUS scheme for study in universities in Greece, Germany, Portugal and Belgium. There are also possibilities for students to study in Canada and the USA.

Business Management: All our courses include an element of business management. Skills essential to life in the world of industry are covered including communication skills, group working, costing and finance.

Computing Content: All our courses use computers as tools for the analysis and design of circuits and systems, as well as for direct control and measurement by interfacing an electronic system to a microprocessor control unit. The development of computing skills including programming languages, software engineering techniques and microprocessor interfacing is an essential ingredient of all the courses.

Laboratory and Project Work: Practical skills are a vital part of any engineering degree course, and it is important that the laboratory and project work should integrate well with the taught courses. As part of the first year laboratory work, students progressively assemble an audio amplifier/mixer module. The finished product can be taken away at the end of the year. Regular laboratories and workshops in the earlier years are supported directly by the taught course material and link into major projects.

Group Engineering Project
In the third year, all MEng students participate in a major software project. This is organised in teams that operate as self-contained units. Teams can trade with each other to buy and sell software modules (with notional money). The final product is a substantial piece of working software.

Electronic Engineering

Ankita Gangotra
Fourth year, MEng in Electronic Engineering with Nanotechnology

“Being an international student I hadn’t visited the department until the first day of term and I do not know exactly what I expected, but the Department of Electronics, University of York has now become a second home. I definitely look forward to walking through the sliding doors every morning because I get to attend lectures, work on analogue circuits in the 4th floor labs, do some software engineering in the first floor labs, put on my clean room suit for the nanotechnology lab or even just meet a few friends to discuss the latest assignment. A lot of clichéd things can be said about how much I like the course that I’m doing and the department I’m in but what’s most important is the realization that there is something new to learn every hour of every day and it is up to me to make full use of it. The Department not only promotes learning and overall skills development, it encourages the staff and students alike to think outside the box and reform the learning processes already in place to make them even more efficient and advantageous. Needless to say I believe made the right choice in choosing York, and there’s no other place I’d rather be.”
BEng Final Year Project
In their final year, Bachelors students carry out a personal project supervised by a member of staff. Each year a large number of projects are offered to students as well as there being the possibility for students to propose their own project, or conduct a project in conjunction with an industrial sponsor. The project contributes to around one fifth of the final degree marks.

MEng Final Year Project
The MEng project runs throughout the final year, alongside other advanced modules. Students may choose to carry out project work in industry, where it will be jointly supervised by members of academic staff and a supervisor from the sponsoring company. Projects are carefully vetted by the department to ensure that the student undertakes a substantial and industrially relevant project.

Alternatively, they may choose to undertake the project in our research laboratories. The projects can span almost any application area, providing that the work involves the solution of a problem by the application of technological tools (analogue and/or digital electronics, microprocessor interfacing, computer systems, CAD, hardware or software, design, modelling, measurement, control etc). Students studying Electronic and Business Management courses carry out a Management based project. All the projects share a certain open-ended nature in that they tend to be exploratory and investigative, allowing the student to take control its direction and pace. Aspects of project management, such as planning, costing, scheduling etc., are intrinsic to the work.

Teaching Style
We pride ourselves on the quality of the education we provide at York; most lecture courses are taught by staff that are active in leading-edge research. Small group tutorials also ensure that students have close contact with the academic staff. We use lectures to convey the theoretical content of our courses, and combine these with a range of methods to allow students to apply and develop their knowledge.

Welfare
A traditional York feature is that on arrival, every student is allocated a personal tutor who supervises his/her progress throughout the course. This regular personal contact and guidance is invaluable and first year students will meet their supervisor at least once per fortnight.

Aside from departmental provision, the University has a whole range of welfare support available to students. These include 24/7 College Welfare Teams and a University Welfare Information Officer, who is there to provide information, support and advice on money, housing, employment, healthcare and other issues. There are also support networks for mature students and overseas students, a Disability Services centre, Dyslexia Support Officer and a student–run overnight help–line.

Sample Timetable Year 1, Spring Term

<table>
<thead>
<tr>
<th>TEACHING METHOD</th>
<th>HOURS PER WEEK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Lectures</td>
<td>6 hours</td>
</tr>
<tr>
<td>Teaching Laboratories</td>
<td>6 hours</td>
</tr>
<tr>
<td>Computing Laboratories</td>
<td>2 hours</td>
</tr>
<tr>
<td>Workshops / Tutorials</td>
<td>4 hours</td>
</tr>
<tr>
<td>Specialism Dependant Lectures</td>
<td>2 hours</td>
</tr>
<tr>
<td>Further Independent Study</td>
<td>20 hours approx</td>
</tr>
<tr>
<td>Total</td>
<td>Approx 40 hours</td>
</tr>
</tbody>
</table>

NB Wednesday afternoons are left free for sporting/recreational activities
Admissions Policy

Mature Students and Foundation Entry
We welcome applications from mature students and those who already possess suitable entry requirements will be considered for first year entry. Students without appropriate qualifications, but who demonstrate potential, will be considered for our Electronic Engineering with Foundation Year course. This course is intended to address the needs of a wide range of people, for example:

▲ Those studying non-scientific /non-mathematical A level courses who wish to change the direction of their studies. (The typical offer for these students is BBB)

▲ Mature students with no recent or advanced level qualifications

▲ Those wishing to re-enter education having left with qualifications below A level standard

▲ Overseas students whose school leaving qualifications are not the equivalent of UK Advanced Level

In all cases, the candidate will need to demonstrate that they can cope with the demands of a course that provides the equivalent of A level Mathematics and Physics in one year of study.

Application Procedure
All applications must be made through the UCAS system, but we will be happy to take enquiries and arrange individual or group visits and tours of our facilities in advance of a formal application. Apply online at www.ucas.ac.uk

We treat every application on an individual basis. All suitable candidates who are based in the UK will be invited for interview. The interview day is intended to give a broad overview of the Department, rather than be purely a selection process. We also provide a Parent’s Programme on interview days for any accompanying relatives/friends. Precise offers are customised to each applicant and where they are still undertaking qualifications this will normally be conditional on the achievement of specified examination grades. Once results are available, if a student meets the terms of our offer they are automatically accepted. Where a student has missed the grades, we would not automatically reject the applicant. We look carefully at all the student’s circumstances, taking into account the reference, personal statement and performance at interview. In particular, we will always take into consideration cases where students have been ill or suffered personal or domestic problems. We prefer, however, to be informed of such difficulties prior to the release of results. Applicants who miss the terms of an MEng offer but meet the terms of a BEng offer will automatically be offered the BEng version of their chosen course if York is their firm choice. A suitable pass mark in Year 1 then allows students to transfer to the MEng.

If students decide that they wish to defer entry, for example to undertake a year in industry, there will be no difficulty in facilitating this – again, provided we are advised before the release of the A level results in August.

Visits
We are always pleased to welcome visitors to the Department. Simply contact us on 01904 322365 to arrange a suitable date and time and we will be happy to show you and any relatives or friends around the teaching facilities and discuss any questions.

The University also holds general Open Days and other Pre-Application visit days/tours. Details of these can be obtained on the University website at www.york.ac.uk.

The information in this brochure is correct at the time of going to press. It is issued for the general guidance of students entering the Department of Electronics and does not form part of any contract. The University hopes to provide the programmes and facilities described here, but reserves the right to withdraw or to make alterations to courses and facilities if necessary.

Typical entry requirements

<table>
<thead>
<tr>
<th>A levels</th>
<th>MEng: AAA, BEng: ABB including Mathematics, one out of: Physics, Electronics and Chemistry, and any third subject, excluding General Studies.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scottish Advanced Highers</td>
<td>MEng: AA, BEng: AB including Mathematics and a science (preferably Physics) plus AAAAA (MEng) or AARBB (BEng) in a suitable range of highers.</td>
</tr>
<tr>
<td>Irish Highers</td>
<td>MEng: AAAAB, BEng: AARBBBB including Mathematics and Physics.</td>
</tr>
<tr>
<td>Overseas students whose school leaving qualifications are not the equivalent of UK Advanced Level</td>
<td>Suitable Foundation courses and/or A levels.</td>
</tr>
<tr>
<td>International Baccalaureate</td>
<td>MEng: 36 points overall, BEng: 34 points overall both with grade 6 in Mathematics and Physics at Higher Level. Students undertaking qualifications this will normally be conditional on the achievement of specified examination grades. Once results are available, if a student meets the terms of our offer they are automatically accepted. Where a student has missed the grades, we would not automatically reject the applicant. We look carefully at all the student’s circumstances, taking into account the reference, personal statement and performance at interview.</td>
</tr>
<tr>
<td>Indian School Certificate</td>
<td>MEng 85%, BEng at standard XII including Mathematics and Science.</td>
</tr>
<tr>
<td>Other non-UK</td>
<td>The School Leasing qualifications of all other countries will be considered providing that the syllabus broadly equates to the content of UK Advanced Level, particularly in Mathematics and Physics. The same criterion applies to Foundation courses. For advice please contact us with details of your course content.</td>
</tr>
<tr>
<td>English Language requirement</td>
<td>IELTS 6.0 with 5.5 in each component or for alternative requirements please see: <a href="http://www.york.ac.uk/study/undergraduate/applying/entry/english-language/">http://www.york.ac.uk/study/undergraduate/applying/entry/english-language/</a></td>
</tr>
</tbody>
</table>

Electronic Engineering
15
Financial Assistance

Government Grants & Loans
Non-repayable Maintenance Grants are available for UK students, depending on their financial situation. Loans for Living Costs and Fees are also available. More details on these and other awards that students from low income families may be eligible for are included in the University of York prospectus and website (see below). Students from other EU countries should note that although they are not eligible for assistance with living costs, in most cases they are eligible to apply for Fee Loans from the UK government.

University of York Undergraduate Bursary Scheme
If you are a UK undergraduate student who is entitled to a Maintenance Grant, you will also be assessed for a University of York Undergraduate Bursary. The size of the bursary that you receive will depend upon the household income of your family. You will not have to apply for an Undergraduate Bursary, the University will calculate this automatically for you. Please ensure that when you apply for your student support you tick the box that allows the release of your assessment information to the University.

Detailed information on grants, loans and the Undergraduate Bursary Scheme can be found on the University’s Student Support web pages at: www.york.ac.uk/studentmoney

Departmental Scholarships for UK/EU Students
The departmental scholarship scheme has been relaunched and now offers 5 £2000 awards to the best qualified home students on entry (this will be assessed by the Admissions Tutor and Officer, no separate application is required) with a further 5 awards of £2000 made at the end of the first year to the top five students.

Company Sponsorship through the UKESF
The Department of Electronics is an invited member of the UK Electronics Skills Foundation (UKESF), which is a collaboration between industry and universities to promote careers in the electronics industry. The UKESF offers scholarships to students studying at member universities that include annual bursaries, summer work placements, mentoring and professional development training. Students apply once they are studying at university and can start on the scheme from any year except their final year and continue until graduation. They are associated with a particular sponsoring company and will undertake at least one summer work placement. For more details see: www.ukesf.org

University Scholarships for Overseas Students
The University offers a number of scholarships each year for students who pay fees at the overseas rate. The scholarships are awarded on a competitive basis and the selection takes into account academic ability and financial need. The annual value of the scholarships is a maximum of one-third of the tuition fee and scholarships are tenable for the duration of the award holder’s course, subject to satisfactory progress. Because the scholarships cover only part of the fees, award holders are expected to show that they can meet the balance of the tuition fee and their living expenses from other sources.

The closing date for the receipt of applications is 30th April of the year in which admission is sought, but candidates should apply as early as possible. Applications should be made on a special form, which is available from The International Office.

As well as details on how to apply for Overseas Scholarships, the International Office has further information on funding opportunities from other sources on its web pages at: www.york.ac.uk/international

Foundation Year Finance
For UK/EU Students
Many students will be eligible for a Bursary to cover most of the

Foundation Year fee – you do not need to repay the Bursary. In addition, the government has a package of grants/loans available, including funding for those with dependent children, and the University’s Student Welfare Advisers can help you find out which sources of funding are available for you. They can be contacted by emailing Foundation Year Scholarships

students after the first term of the course. All students, whether UK/EU or Overseas are eligible to be considered.

Some companies are prepared to sponsor students for all or part of their studies. This can also include possible vacation work and project collaborations. The Department is a member of the UK Electronics Skills Foundation (www.ukesf.org), a collaboration between industry, universities and the public sector that offers scholarships for electronics students.

IET Scholarships
The IET also offers a range of generous scholarships, details of which can be found at: www.iet.org

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University Scholarships for Overseas Students
The University offers a number of scholarships each year for students who pay fees at the overseas rate. The scholarships are awarded on a competitive basis and the selection takes into account academic ability and financial need. The annual value of the scholarships is a maximum of one-third of the tuition fee and scholarships are tenable for the duration of the award holder’s course, subject to satisfactory progress. Because the scholarships cover only part of the fees, award holders are expected to show that they can meet the balance of the tuition fee and their living expenses from other sources.

The closing date for the receipt of applications is 30th April of the year in which admission is sought, but candidates should apply as early as possible. Applications should be made on a special form, which is available from The International Office.

As well as details on how to apply for Overseas Scholarships, the International Office has further information on funding opportunities from other sources on its web pages at: www.york.ac.uk/international

Foundation Year Finance
For UK/EU Students
Many students will be eligible for a Bursary to cover most of the

Foundation Year fee – you do not need to repay the Bursary. In addition, the government has a package of grants/loans available, including funding for those with dependent children, and the University’s Student Welfare Advisers can help you find out which sources of funding are available for you. They can be contacted by emailing Foundation Year Scholarships

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Some companies are prepared to sponsor students for all or part of their studies. This can also include possible vacation work and project collaborations. The Department is a member of the UK Electronics Skills Foundation (www.ukesf.org), a collaboration between industry, universities and the public sector that offers scholarships for electronics students.

IET Scholarships
The IET also offers a range of generous scholarships, details of which can be found at: www.iet.org

University of York Undergraduate Bursary Scheme
If you are a UK undergraduate student who is entitled to a Maintenance Grant, you will also be assessed for a University of York Undergraduate Bursary. The size of the bursary that you receive will depend upon the household income of your family. You will not have to apply for an Undergraduate Bursary, the University will calculate this automatically for you. Please ensure that when you apply for your student support you tick the box that allows the release of your assessment information to the University.

Detailed information on grants, loans and the Undergraduate Bursary Scheme can be found on the University’s Student Support web pages at: www.york.ac.uk/studentmoney

Departmental Scholarships for UK/EU Students
The departmental scholarship scheme has been relaunched and now offers 5 £2000 awards to the best qualified home students on entry (this will be assessed by the Admissions Tutor and Officer, no separate application is required) with a further 5 awards of £2000 made at the end of the first year to the top five students.

Company Sponsorship through the UKESF
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After Your Degree

The continuing growth of the Electronics industry has ensured that the demand for engineers is significantly greater than the supply. Opportunities for electronics graduates are diverse and substantial and graduates encounter little difficulty in obtaining jobs, mostly in well paid and rewarding areas. In fact, the employment 'success' rate for Electronics graduates from York is well above the national average for the subject. For those wishing to take different career paths, the transferrable skills gained on our courses are recognised by employers as highly valuable.

Typically, 25–30% of our graduates carry on up to postgraduate level. Of those going into employment, the chart across shows the breakdown of careers.

Because of the wide range of opportunities available, our graduates enter all sizes of firm, from multi-nationals to small businesses, and some have even started their own companies. Others choose to continue their studies to MSc or PhD (doctoral level).

Daryl Bradley
CPU Design Engineer, R&D Group, ARM Ltd

“I was convinced York was the right place for me after visiting for an interview and being given a tour around the department by students already there. Teaching was excellent and the lecturers had a real passion for their work, yet were always approachable and willing to spend time answering questions and helping out. There was also a lot of lab work and project based work – something that really prepares you for entering industry.

I have worked at ARM Limited in Cambridge since completing my PhD at York in 2001, and have worked on several projects for new CPU designs, recently moving to the research group to look at future generation ARM devices. You get put on a project straight away when you work here, with responsibility right from the word go. The teaching and project work at York prepares you really well for this, enabling you to apply all the knowledge you’ve gained to a product that you’ll see in a mobile phone or games console in a few years time.”

Yoshikazu Hirayama
PhD student Department of Electronics

“I am currently a PhD student in the Intelligent Systems Group, researching on intelligent control systems. During the four year MEng course I took as an undergraduate at York, I developed an interest in control and I also felt that the research work in this department offered challenging work.

The first two years of the undergraduate course covered the broad foundations of Electronic Engineering, and provided teaching not only on electronic systems but also on business aspects. The laboratory work and the research work were definitely very beneficial to me, which built up my confidence. In the later years a variety of options were available, which enabled me to extend and enhance the knowledge in my chosen specialised subject areas.

The department is very supportive towards students and has a friendly atmosphere. I enjoy the research work and the life in York and am glad that I have decided to continue studying here.”

Alyte Podvoiskis
Trainee Clinical Scientist, NHS

“I am currently working in a NHS hospital-based Bioengineering department, training to become a State Registered Clinical Scientist. It was my final year MEng project ‘Cervical Cancer Cell Detection using Sonification (data portrayed through sound)’ that inspired me to combine electronics with a biological application.

The first part of my training consisted of an MSc in Biomedical Engineering and three hospital placements. I could not have completed my training without the knowledge gained during my degree at York. Modules such as analogue circuit design, operational amplifiers and software programming provided me with the tools to complete my project.

I now have to undertake a further two years of advanced work-based training to become State Registered. My roles include designing and developing medical devices, writing scientific papers, becoming a quality manager and aiding equipment management projects. My final step will be to seek Chartered Engineer status, which will be aided by the accreditation of the York Electronics degree by the IET.”