FREE YOUR AMBITION
Whatever your ambition – whether you dream of becoming a professional in the field of engineering, design and technology, or want to boost your knowledge and skills – we’re here to help make it happen.

ACHIEVE YOUR GOALS WITH THE OPEN UNIVERSITY

We’re pioneers in distance learning. Since we were founded, we’ve helped more than two million people realise their potential. Our unique approach to learning means you don’t have to put your life on hold to get the qualification you want.

We will:
- help you get a qualification to suit you and your goals
- provide you with the teaching and learning resources you’ll need
- offer a flexible learning experience based around you and your life
- use technology and teaching methods that enhance your study experience
- be there to support you every step of the way.

You can expect:
- materials that are designed with you in mind
- continuous innovation – we’ve been leading the way in distance learning for over 50 years, ensuring education is accessible, whatever your circumstances
- access to world-class resources, whenever you need them
- qualifications that are respected by employers the world over.

78% of FTSE 100 companies have sponsored employees on OU courses.
FIVE REASONS WHY YOU SHOULD CHOOSE US

1. We’re open to you. We make learning available to all, regardless of background, age or additional learning needs.

2. You can study around your existing commitments. We’re experts in helping people fit their studies around their busy lives.

3. We guarantee outstanding value and a high-quality education at a competitive price.

4. Our qualifications enable you to put what you learn into practice immediately.

5. You get more than a highly respected qualification. You’ll be able to show you’re dedicated and committed – personal qualities that are valued in the workplace.
WHERE YOU START IN LIFE SHOULDN’T LIMIT WHERE YOU GO. IF YOU’RE DETERMINED TO SUCCEED AND PREPARED TO WORK HARD, WE CAN HELP YOU GET STARTED.

THE NEXT FEW PAGES WILL TELL YOU MORE ABOUT HOW STUDYING WITH THE OPEN UNIVERSITY WORKS, THE COURSES YOU CAN STUDY, THE FUNDING AVAILABLE TO YOU, AND HOW LONG YOUR QUALIFICATION WILL TAKE.

WHAT YOU NEED TO GET STARTED

Where you start in life shouldn’t limit where you go. If you’re determined to succeed and prepared to work hard, we can help you get started.

You can do it
The main reason we’re called The Open University is that we’re open to everyone. Every year, we help thousands of people achieve extraordinary things.

- There are no formal academic entry requirements for most of our undergraduate courses.
- For some qualifications, you may need to be in relevant employment.
- We helped over 24,000 students with disabilities and additional needs last year alone.
- Our students are diverse. Of our new undergraduate students, 34% are under 25. Our oldest students are in their nineties.

What you need
There are just a couple of things that you’ll need to be able to study with us.

- A computer with internet access. But don’t worry if you haven’t got access to one right now – you could receive financial support to help you buy one.
- A good grasp of the English language. We teach all our courses in English. If you’re not sure your English is at the right level, go to openuniversity.co.uk/englishlanguage for help and guidance.

Have you studied before?
If you’ve studied at higher education level before, you might be able to count it towards your OU qualification. This can cut down the modules you’ll need to study, saving you time and money.

If you tell us what you’ve done, we’ll do the rest.
Go to openuniversity.co.uk/credit-transfer.
WHAT YOU CAN STUDY

We offer over 200 highly respected qualifications to help you reach your goals. You can study towards a degree or start with a certificate or diploma of higher education and build on your studies as you go.

**Undergraduate**

**Integrated masters degree**
Add value to undergraduate study by combining it with work at postgraduate level.

**Named degree**
Complete modules in a specific subject to earn an honours degree and open doors to a new interest or career.

**Open degree**
Design an honours degree from across a mix of subjects to suit your needs and interests.

**Diploma of higher education**
Expand your knowledge and improve your skillset in a specialised area.

**Foundation degree**
Focus on a subject area related to what you’re doing now, in either a work or voluntary setting.

**Certificate of higher education**
Get a general grounding or improve your understanding of a subject area.

**Postgraduate**

**Masters degree**
Study modules towards an internationally respected qualification while gaining specialist academic, professional or technical skills.

**Postgraduate diploma**
Work towards a widely recognised qualification. A postgraduate diploma is equivalent to two-thirds of a masters degree.

**Postgraduate certificate**
Ideal for professional and career development, this is the first step towards a masters degree as well as being a valuable qualification in its own right.

**We’ll give you:**

‒ the flexibility to fit study around your other commitments
‒ the opportunity to improve your career
‒ freedom to follow your passions in depth.

To find out more about how you build your qualifications and how long it takes, see pages 12–15.

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Find the course to match your ambition

If you don’t know which type of course is right for you, discover more about the qualifications we offer on our website. Go to [openuniversity.co.uk/course-types](http://openuniversity.co.uk/course-types).
LEARN IN A WAY THAT SUITS YOU

You’ll have the flexibility to fit study around the other things going on in your life, whatever they may be.

Distance learning with the OU

We’ve designed our learning experience to combine flexibility and regular contact. We’ll give you the help you need to learn in the best possible way. You’ll get regular support from tutors and access to all the materials and resources essential to your course.

You’ll also have access to student support teams, who’ll be there to help you on your learning journey.

How you’ll be assessed

You could be assessed in a variety of different ways depending on your choice of course. We use a combination of written assignments, oral or practical assessments, projects, examinations, dissertations and portfolios.

Your assessments will occur at set points during your course. For more information on how you’ll be assessed, go to openuniversity.co.uk/assessment.

Pioneering technology

We’ve been using innovative technology to connect with our students since we first started. Examples include our online tutorials and module forums. We’ll make sure that you always have what you need, and feel connected.

Connect with other students

You can use our module discussion groups to talk about subjects, course work or study methods.

You can also connect with us on social media or join one of the many informal Facebook groups set up by students.

Students association

You’ll become a member of our active students association when you register. You can help influence University decisions, meet fellow students and develop new skills.

Find out more at openuniversity.co.uk/ousa.

Or join the conversation on Facebook.com/OUstudents Twitter.com/OUstudents Instagram.com/OUstudentslive.

Do you have additional study needs?

We’re committed to helping students with disabilities and additional needs. We’ll give you the tools to help overcome obstacles that could stand in the way of your learning – whatever your needs may be.

Disabled Students’ Allowance (DSA) – UK residents only

A DSA can help you with study costs that result directly from your disability or specific learning difficulty. They’re not means-tested and can go towards specialist equipment (such as an adapted computer), non-medical study support (e.g. a dyslexia support worker) or other related expenses. You can also apply for help with study-related travel costs that result directly from your disability.

For more information, go to openuniversity.co.uk/disability or call us on 0300 303 5303.

What’s it like to study with The Open University?

To find out more about distance learning, the OU study experience and how we’ll support you throughout your studies, go to openuniversity.co.uk/learning.
Innovating for a better future

A career in engineering, design or technology can be immensely stimulating and rewarding. Whatever level higher education qualification you’re looking for, you’ll find that our courses are the ideal foundation for your career.

Why study with us?
Through our teaching and research, we aim to make significant impact on individuals, organisations and communities that need to design, develop, build and manage complex systems involving technologies of all kinds. We seek to transform lives by making STEM (science, technology, engineering and mathematics) education available to as many people as possible and contributing to reducing the UK’s STEM skill shortage. We’re proud that our students express high satisfaction with their study experience and graduates are equipped with the knowledge and skills to work in STEM-focused occupations.

Undergraduate
We offer a range of accredited degrees to help you progress to Engineering Council registration: including the Foundation Degree in Engineering, the Bachelor of Engineering (Hons), a Top-up Bachelor of Engineering (Hons) and the Integrated Master of Engineering.

We’re the leading distance-learning higher education provider of design courses in the UK. We offer a Diploma and Certificate of Higher Education, and a BA or BSc (Hons) Design and Innovation, as well as a BSc (Hons), Diploma and Certificate of Higher Education in Computing & IT and Design.

Postgraduate
At postgraduate level, our MSc in Engineering will help you progress to register as a Chartered Engineer.

Our other postgraduate qualifications include masters degrees in technology management, systems thinking in practice, and environmental management.

Research and equipment
We’re one of the UK’s top materials engineering research centres – our work has benefitted the economy, public safety, and society in general. You’ll learn from relevant and up-to-date teaching materials created by the academics responsible for this ground-breaking research. If you’re thinking of taking one of our engineering courses, as an Open University student, you’ll get a taste of doing engineering research by operating research-grade equipment remotely and gathering and analysing your own data through our exciting and innovative OpenEngineering Lab. For some qualifications, you’ll also carry out mini practical research projects in small teams at our week-long residential schools. To find out more about our research, go to openuniversity.co.uk/ouresearch.
The OU Women in Engineering initiative has made a big difference to my experience of the course. They’ve not only provided opportunities to attend and contribute to great conferences, but enthusiastically supported student-led initiatives like the Women in Engineering OU Student Society.

Caz Ingram, Bachelor of Engineering (Hons)

Women in engineering
We actively support women to study and progress into careers in engineering. The School of Engineering and Innovation is proud to hold an Athena SWAN bronze award, recognising our commitment to gender equality and advancing the career aspirations of all its students.

The School works closely with the Women’s Engineering Society (WES) as an Education Partner, giving our female students free membership of WES. This partnership enables students to access a network of professional women engineers, to attend a variety of events such as the annual WES Student Conference, and benefit from the WES newsletter and quarterly journal The Woman Engineer. We also have a lively WES student group, organised and run by current students, that provides a supportive community and information about events and activities relevant to women in engineering.

We celebrate International Women in Engineering Day with events such as a free one-day conference, which enables students and staff to meet each other and gain insights into various engineering sectors.

Professional recognition
Our engineering qualifications are accredited by the Institution of Engineering and Technology and the Institution of Engineering Designers. We are seeking extensions to our accreditations with the Chartered Institution of Building Services Engineers and the Institution of Mechanical Engineers.

Our MSc in Engineering fulfils the educational requirements for registration as a Chartered Engineer when presented with an accredited Bachelor of Engineering (BEng) (Hons), including ours, as does our Master of Engineering on its own. Our BEng (Hons) meets the educational requirements for registration as an Incorporated Engineer.

Our BSc (Hons) Design and Innovation is recognised for membership of the Institution of Engineering Designers.

Our Postgraduate Environmental Management programme is accredited by the Institute of Environmental Management & Assessment.

Our MSc and Postgraduate Diploma in Environmental Management are accredited by the Chartered Institution of Water and Environmental Management.

Beyond graduation
The scope of career options for students studying design or engineering is extensive and these graduates are often employed as managers, directors or senior officials in professional, associate professional and technical occupations. There is a wealth of opportunity awaiting STEM graduates, whose skills are in high demand – currently many employers struggle to fill STEM vacancies due to a lack of skilled candidates.

The demand for STEM graduates is being driven by new technologies, and graduates can find employment across a whole range of manufacturing and service industries, from food and fashion to construction, transport and medical. Engineering is also central to the growth of the low-carbon economy, with huge growth in renewable energy, from both a production management side but also research and innovation. Robotics, AI development and digital applications are also rapidly developing areas feeding into the work spectrum that skilled STEM graduates will find themselves able to apply to.

Learn more about our engineering, design and technology qualifications, and register for your chosen course.

Visit openuniversity.co.uk/courses
What you can study

The following Access module will prepare you for the qualifications we offer in engineering, design and technology.

Science, technology and maths Access module (Y033)

Grow your knowledge in a range of technical subjects, including science; engineering and design; environment; mathematics; and computing and IT. As the foundation for further studies in these fields, this module will help you build your confidence and prepare you for more OU study.

We offer two other Access modules, which are more relevant to other subject areas:

Arts and languages Access module (Y031)

People, work and society Access module (Y032)
Do you qualify for a free Access module?

You can study an Access module for free if you:

- live in the UK (excludes Channel Islands and Isle of Man) or have a British Forces Post Office address
- are studying the module as part of an OU qualification (this doesn’t apply if you live in Scotland)
- have a household income (or, in Scotland, a personal income) of £25,000 or less, or you receive qualifying benefits
- have completed less than one year of a full-time undergraduate programme at FHEQ or CQFW level 4/SCQF level 7 or above, and not completed 30 credits or more of OU study.

How much does an Access module cost?

If you don’t qualify to study for free, the cost depends on where you live.

- In England, the Channel Islands and the Isle of Man it’s £774.
- In Northern Ireland, Scotland and Wales it’s £258.

You can pay up front by debit or credit card, or by bank transfer. Or spread the cost with an Open University Student Budget Account – see page 17 for more information.

If you’re studying an Access module as part of an OU qualification and you live in England, Wales or Northern Ireland, you could cover the cost with a student loan – see page 16 for more information.

Students who start with an Access module are more likely to be SUCCESSFUL when they advance to OU level 1 study.

The Access module really helped equip me with the skills and confidence I needed to go on and study at degree level.

Tim Walker,
Bachelor of Laws (Hons) LLB

Order an Access Modules Prospectus or speak to our Student Recruitment team
Visit openuniversity.co.uk/ug-access
Call 0300 303 0069
HOW YOU BUILD YOUR QUALIFICATION

Undergraduate students

You’ll need to build up a set number of credits to gain your qualification. Here’s how it works.

Stages

- Complete one stage for a certificate of higher education, two stages for a diploma of higher education or foundation degree, and three stages to gain an honours degree.
- To complete each stage, you must build up a set number of credits.

Credits

- You need 120 credits to complete each stage.
- You need a set number of credits to gain your chosen qualification e.g. you need 360 credits to gain an honours degree.
- You gain credits by successfully completing modules.

Modules

- With each module you successfully complete, you’ll earn a set number of credits, either 30 or 60.
- Modules are either compulsory or selected from a choice of options.
- You choose the modules you want to study, year by year.

Access module

An optional module to build your confidence and prepare you for further study.

To complete Stage 1, you’ll need 120 credits, studying modules worth 30 or 60 credits.

120 credits

Certificate of higher education

To complete Stage 2, you’ll need a further 120 credits, studying modules worth 30 or 60 credits.

240 credits

Diploma of higher education or foundation degree

To complete Stage 3, you’ll need a further 120 credits, studying modules worth 30 or 60 credits.

360 credits

Honours degree

Our integrated masters degree has four stages. See page 20 for further details.
Postgraduate students

You gain a postgraduate qualification by building up a set number of credits.

**Credits**

You need:
- 60 credits to gain a postgraduate certificate
- 120 credits to gain a postgraduate diploma
- 180 credits to gain a masters degree.

You gain credits by successfully completing **modules**.

**Modules**

- With each module you successfully complete, you’ll earn a set number of credits, usually 15, 30 or 60.
- Modules are either compulsory or selected from a choice of options.
- You choose the modules you want to study, year by year.

**Getting started**

All you need to do is choose which qualification you want to study and register on a module that counts towards that qualification. You can find out more about the postgraduate qualifications we offer in engineering, design and technology from page 37.
HOW LONG YOUR QUALIFICATION WILL TAKE

We give you the flexibility to choose the amount you want to study each year. This way, you get the qualification you want in a timeframe that’s right for you.

Undergraduate qualifications

Most of our students study part time, taking 60 credits a year. That’s like studying at half the rate of a full-time course at a traditional university. If you want to complete your study at a full-time rate, you’ll need to study 120 credits per year.

<table>
<thead>
<tr>
<th>Part time</th>
<th>60 credits a year</th>
<th>16–18 study hours a week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate of higher education (120 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diploma of higher education/Foundation degree (240 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honours degree (360 credits)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full time</th>
<th>120 credits a year</th>
<th>32–36 study hours a week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate of higher education (120 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diploma of higher education/Foundation degree (240 credits)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honours degree (360 credits)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Some qualifications follow a different pattern of study. See individual descriptions for more information.
Postgraduate qualifications

The time it will take to complete your qualification depends on how it’s structured and the number of credits required. All of our postgraduate courses are offered as part-time study and the usual timescales for individual module completion are shown below.

- 15–30 credit module – typically five months.
- 60 credit module – typically nine months.

Find out more

For more information on finding time to study, and to use our time planner tool, go to openuniversity.co.uk/time.

<table>
<thead>
<tr>
<th>Part time</th>
<th>60 credits a year</th>
<th>16–20 study hours a week</th>
</tr>
</thead>
</table>

- **Postgraduate certificate**
  - (60 credits)

- **Postgraduate diploma**
  - (120 credits)

- **Masters degree**
  - (180 credits)

Some qualifications follow a different pattern of study. See individual descriptions for more information.
We believe cost shouldn’t be a barrier to achieving your potential. That’s why our tuition fees are among the most competitive in the UK. And we’ll always help you find a way of paying that suits your circumstances.

**For undergraduate**

You’ll pay on a module-by-module basis, rather than for your whole qualification up front. See below to get an idea of costs.

### LIVING IN ENGLAND

<table>
<thead>
<tr>
<th>CREDITS EACH YEAR</th>
<th>COST PER YEAR¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>£1,548</td>
</tr>
<tr>
<td>60</td>
<td>£3,096</td>
</tr>
<tr>
<td>120</td>
<td>£6,192</td>
</tr>
</tbody>
</table>

¹2020/21 prices; fees normally increase annually in line with inflation and the University’s strategic approach to fees. In England, the cost for a 360-credit honours degree based on today’s prices is £18,576.

### LIVING IN NORTHERN IRELAND, SCOTLAND OR WALES

<table>
<thead>
<tr>
<th>CREDITS EACH YEAR</th>
<th>COST PER YEAR²</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>£1,032</td>
</tr>
<tr>
<td>60</td>
<td>£2,064</td>
</tr>
</tbody>
</table>

²2020/21 prices (exceptions apply); fees normally increase annually in line with inflation and the University’s strategic approach to fees.

In Northern Ireland, Scotland and Wales, the cost for a typical 360-credit honours degree based on today’s prices is £6,192.

### Funding – England and Wales

The best way to fund your studies, regardless of age or income, might be with a student loan from Student Finance England or Student Finance Wales. It’s the most popular way to pay.

**Key facts**

- Repayments only start when your salary exceeds the income threshold (£26,575 from April 2020).
- Repayments are deducted automatically from your salary.
- You can pay off the loan early without any penalties.
- Any balance outstanding after 30 years will be written off.

#### EXAMPLE REPAYMENT AMOUNTS

<table>
<thead>
<tr>
<th>INCOME EACH YEAR BEFORE TAX</th>
<th>MONTHLY REPAYMENT³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to £26,575</td>
<td>£0</td>
</tr>
<tr>
<td>£28,000</td>
<td>£10.68</td>
</tr>
<tr>
<td>£34,000</td>
<td>£55.69</td>
</tr>
<tr>
<td>£49,000</td>
<td>£168.19</td>
</tr>
</tbody>
</table>

³Repayments are based on what you earn, not what you owe. You’ll repay 9% of what you earn over £26,575. For example, if you earn £28,000, you’ll repay £128.25 that year (9% of £1,425). That’s just over £10 per month.

### Already have a degree?

You might still qualify for a student loan. You need to be living in England or Wales and looking to study an eligible qualification.

For more information, go to openuniversity.co.uk/quals.

### Maintenance support – Wales

New students in Wales studying part time towards a qualification can also apply for maintenance grants, worth up to £4,500 a year, to help with living costs.

### Funding – Northern Ireland

You could be eligible for a Part-Time Fee Grant of up to £1,230 a year to help towards your fees. The amount depends on your household income and the rate at which you study. If you’re not eligible for the grant, or if it doesn’t cover the full cost of your tuition fees, you can pay in full or in part using an alternative payment method, such as a Part-Time Tuition Fee Loan.

### Funding – Scotland

If your personal income is £25,000 or less, or you’re on certain benefits, and you’re studying at least 30 credits, you could qualify for a Part-Time Fee Grant and top-up funding to cover 100% of your course fees. It isn’t a loan and you won’t need to pay any of it back.

### Study support and discretionary funds

If your annual income is less than £25,000, you might be eligible for additional means-tested funding for study-related costs, such as travel, childcare and internet access.

### Self-funded study

You can pay using a debit or credit card, or by bank transfer. Or spread the cost with an Open University Student Budget Account – see opposite for more information.

### Get sponsored

See whether your employer would help you learn and develop. It’s always worth asking.

### MORE ONLINE

Find out more about undergraduate fees and funding

Visit openuniversity.co.uk/ug-fees

Call 0300 303 5303
For postgraduate
You pay for postgraduate qualifications module by module. Please go to our website to see the total fee listed for your qualification.

Funding – England
You could be eligible for a maintenance loan of up to £10,906 from Student Finance England.

To be eligible you must:
− be under 60 years old
− be resident in England
− be studying a masters degree that can be completed in no more than three years
− not currently have a masters degree or equivalent
− be studying your qualification from the beginning.

Key facts
− Repayments only start when you earn more than the income threshold (currently, £21,000).
− You’ll repay 6% of your income over the threshold – so, for example, if you earn £25,000, you’ll repay only £240 that year (6% of £4,000). That’s just £20 a month.

Funding – Northern Ireland and Scotland
You could be eligible for a fee loan of up to £5,500 from Student Finance Northern Ireland or the Student Awards Agency Scotland.

To be eligible you must be:
− resident in Northern Ireland or Scotland
− studying for an eligible postgraduate qualification.

Key facts
− Repayments only start when you earn more than the income threshold (currently, £18,935 in Northern Ireland and £18,330 in Scotland).
− You’ll repay 9% of your income over the threshold – so, for example, if you earn £20,000 and live in Scotland, you’ll repay only £150.30 that year (9% of £1,670). That’s less than £13 a month.
− Payments are deducted automatically from your salary.

Funding – Wales
New postgraduate students can apply for financial support, made up of non-repayable grants and top-up loans.

To be eligible you must be:
− resident in Wales
− studying for a masters degree
− under 60 years old.

Key facts
− The support is made up of grants and loans and is worth up to £17,000.
− All eligible students will receive a non-repayable grant of £1,000, rising to a maximum of £6,885, depending on household income.
− Loan repayments only start when you earn more than the income threshold (currently, £21,000).
− You’ll repay 6% of your income over the threshold – so, for example, if you earn £25,000, you’ll repay only £240 that year (6% of £4,000). That’s just £20 a month.

Self-funded study
You can pay using a debit or credit card, or by bank transfer. Or spread the cost with an Open University Student Budget Account – see right for more information.

Get sponsored
See whether your employer would want to help you learn and develop. It’s always worth asking.

Open University Student Budget Accounts Ltd (OUSBA)
When you enrol with us, you’ll be offered the opportunity to pay your fees through a loan from OUSBA.

OUSBA will pay your fees to The Open University, and you repay OUSBA either in a single sum before your course starts – in this case there’s no interest – or in monthly instalments of up to a year – in this case, interest does apply.

The interest rate is fixed for the duration of the course (representative APR 5.1%).

If you’re worried about affordability or a poor credit history, you can apply for a joint loan application with a third party e.g. partner, sibling, friend, etc.

Find out more about OUSBA at openuniversity.co.uk/ousba.

As a responsible lender, OUSBA carries out affordability checks as part of the application process.
Jack always wanted to go to college or university but didn’t want to go down the traditional route and instead secured a job in the army. It was there that his peers encouraged him to study with the OU and make his dream a reality.

I’d always wanted to get a degree in order to progress in my career and achieve my goals, but it took time for me to gain some perspective, and therefore I didn’t begin my higher education journey until a little bit later on in life.

If I’d gone down the route of attending a residential university, it would have meant giving up the lifestyle that I’d gotten used to over the past decade. It would have also meant not being able to reach my current professional level as quickly.

Studying with the OU is fantastic as it fits around your life – it can be challenging at times, but it’s very achievable and definitely worth it. Thanks to my studies I’ve been able to secure a new job at a more senior level.

The Open University gave me the confidence and skills to pursue my dream career. My advice to anyone considering further study would be to believe in the OU and believe in yourself, because it will take you far!

Jack Brooke,
Bachelor of Engineering (Hons)
You can register for the 2020/2021 academic year for undergraduate qualifications from 18 March 2020.

We’ve based the qualification start dates on the first module(s) you can study as part of your qualification.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGINEERING</strong></td>
<td></td>
</tr>
<tr>
<td>Master of Engineering (M04)</td>
<td>20</td>
</tr>
<tr>
<td>Bachelor of Engineering (Hons) (Q65)</td>
<td>22</td>
</tr>
<tr>
<td>Foundation Degree in Engineering (X11)</td>
<td>24</td>
</tr>
<tr>
<td>Top-up Bachelor of Engineering (Hons) (Q78)</td>
<td>26</td>
</tr>
<tr>
<td><strong>DESIGN</strong></td>
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</tr>
<tr>
<td>BA or BSc (Hons) Design and Innovation (Q61)</td>
<td>28</td>
</tr>
<tr>
<td>BSc (Hons) Computing &amp; IT and Design (Q67)</td>
<td>30</td>
</tr>
<tr>
<td><strong>COMBINED STEM</strong></td>
<td></td>
</tr>
<tr>
<td>BSc (Hons) Combined STEM (R28)</td>
<td>32</td>
</tr>
<tr>
<td><strong>OPEN DEGREE</strong></td>
<td></td>
</tr>
<tr>
<td>BA/BSc (Hons) Open (QD)</td>
<td>34</td>
</tr>
</tbody>
</table>
Our MEng fulfils the educational requirements for Chartered Engineer status. It’s an integrated masters degree that combines undergraduate and postgraduate study.

Engineering is a creative and analytical subject. You’ll develop the skills, techniques, concepts and knowledge needed by professional engineers, underpinned by science and mathematics. The course has a common core with a choice of routes to suit your area of interest. You’ll work on real-life projects to create innovative solutions to challenging problems. You’ll team up with other students at residential schools and work on your own projects.

Why choose this qualification?
- Fulfils the Engineering Council’s educational requirements for Chartered Engineer status.\(^1\)
- Includes individual and team-based projects, plus four residential schools.
- Move to our Bachelor of Engineering (Hons) if your aspirations change, even after you’ve started.
- Choose from six specialist routes and a broad engineering route.
- Develop employability skills, including personal and professional development planning.

Accreditation
The following professional engineering institutions accredit our Master of Engineering on behalf of the Engineering Council for the purposes of fully meeting the academic requirements for registration as a Chartered Engineer:
- Institution of Engineering Designers.
- Institution of Engineering and Technology.

We are seeking extensions to our accreditations with the Chartered Institution of Building Services Engineers and the Institution of Mechanical Engineers.

\(^1\) Under UK-SPEC (UK Standard for Professional Engineering Competence), which sets out the requirements for UK engineers to achieve professional status.
Qualification structure

Our MEng has six specialist routes and a broad engineering route – you’ll choose one:

- engineering management
- environmental technologies
- energy and sustainability
- materials and design
- mechanical engineering
- modelling and applications
- broad engineering.

<table>
<thead>
<tr>
<th>Stage</th>
<th>Credits</th>
<th>Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>120</td>
<td>Engineering: origins, methods, context (T192) [30 credits]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Engineering: frameworks, analysis, production (T193) [30 credits]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Engineering: mathematics, modelling, applications (T194) [30 credits]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Engineering: professions, practice and skills 1 (T176) [30 credits]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Core engineering A (T271) [30 credits]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Core engineering B (T272) [30 credits]</td>
</tr>
<tr>
<td>2</td>
<td>120</td>
<td>You’ll study 30 credits from your chosen specialist route, go to openuniversity.co.uk/m04</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Engineering: professions, practice and skills 2 (T276) [30 credits]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>You’ll study 90 credits from your chosen specialist route, go to openuniversity.co.uk/m04</td>
</tr>
<tr>
<td>3</td>
<td>120</td>
<td>Managing technological innovation (T848) [30 credits] OR Strategic capabilities for technological innovation (T849) [30 credits]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The MEng individual project (T460) [30 credits]</td>
</tr>
<tr>
<td>4</td>
<td>120</td>
<td>You’ll study 60 credits from your chosen specialism, go to openuniversity.co.uk/m04</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Team engineering (T885) [30 credits]</td>
</tr>
</tbody>
</table>
This general engineering qualification fulfils the educational requirements for Incorporated Engineer status. The combination of this degree and an accredited MSc fulfils the educational requirements for Chartered Engineer status.

Engineering is a creative and analytical subject. You’ll develop the skills, techniques, concepts and knowledge needed by professional engineers, underpinned by science and mathematics. The course has a common core with a choice of routes to suit your area of interest. You’ll work on real-life projects to create innovative solutions to challenging problems. You’ll team up with other students at residential schools and work on your own projects.

**Why choose this qualification?**

- Fulfils the Engineering Council’s educational requirements for Incorporated Engineer status.
- Includes individual and team-based projects, plus two residential schools.
- Move to our Master of Engineering if your aspirations change, even after you’ve started.
- Choose from six specialist routes and a broad engineering route.
- Develop employability skills, including personal and professional development planning.

**Accreditation**

The following professional engineering institutions accredit our Bachelor of Engineering (Hons) on behalf of the Engineering Council for the purposes of fully meeting the academic requirements for registration as an Incorporated Engineer and partly meeting the academic requirements for registration as a Chartered Engineer:

- Institution of Engineering Designers.
- Institution of Engineering and Technology.

We are seeking extensions to our accreditations with the Chartered Institution of Building Services Engineers and the Institution of Mechanical Engineers.

---

1 Under UK-SPEC (UK Standard for Professional Engineering Competence), which sets out the requirements for UK engineers to achieve professional status.
Qualification structure

Our BEng (Hons) has six specialist routes and a broad engineering route – you’ll choose one:

- electronics
- energy and sustainability
- engineering design
- environmental technologies
- mathematical methods
- mechanical engineering
- broad engineering.

Stage 1 120 credits

Engineering: origins, methods, context (T192) (30 credits)

Engineering: frameworks, analysis, production (T193) (30 credits)

Engineering: mathematics, modelling, applications (T194) (30 credits)

Engineering: professions, practice and skills 1 (T176) (30 credits)

Core engineering A (T271) (30 credits)

Core engineering B (T272) (30 credits)

You’ll study 30 credits related to your chosen specialism, go to openuniversity.co.uk/q65

Stage 2 120 credits

Engineering: professions, practice and skills 2 (T276) (30 credits)

Stage 3 120 credits

You’ll study 90 credits related to your chosen specialism, go to openuniversity.co.uk/q65

The engineering project (T452) (30 credits)

BACHELOR OF ENGINEERING (HONS)

Qualification delivery, module availability and qualification structure are subject to change.
This foundation degree combines academic skills with the needs of your workplace. Boost your career if you’re working in an engineering-related job at a technical level.

Build on your existing skills and experience to support your professional development plans. You’ll apply the study of engineering fundamentals to the solution of real-life problems. Topics include design, electronics, energy, manufacturing, materials, mechanics and structural analysis. It also develops your maths skills, which are key to successful study of engineering.

**Why choose this qualification?**
- Tackle real-life problems by applying your study of engineering fundamentals.
- Develop your maths skills, key to the successful study of engineering.
- Build on your existing skills and experience with two work-related modules.
- Gain a solid foundation for further study, with the option to top up to an honours degree.

**Meet our academics**

Aerospace, automotive and nuclear industries all have components that cannot be allowed to fail. Dr Foroogh Hosseinzadeh, senior lecturer in Engineering, works with these industries to ensure that critical components are as safe as can be.

Find out more about Foroogh’s work at [openuniversity.co.uk/fh](http://openuniversity.co.uk/fh).

**Related qualification**

Diploma of Higher Education in Engineering (W11) [openuniversity.co.uk/w11](http://openuniversity.co.uk/w11)
Qualification structure

**Stage 1 120 credits**

*Engineering: origins, methods, context*  
(T192) (30 credits)

*Engineering: frameworks, analysis, production*  
(T193) (30 credits)

*Engineering: mathematics, modelling, applications*  
(T194) (30 credits)

*Engineering at work*  
(T198) (30 credits)

**Stage 2 120 credits**

*Core engineering A*  
(T271) (30 credits)

*Core engineering B*  
(T272) (30 credits)

You’ll choose 30 credits from a selection of modules, go to openuniversity.co.uk/x11

*Change, strategy and projects at work*  
(T227) (30 credits)

---

**Foundation Degree in Engineering**

Qualification delivery, module availability and qualification structure are subject to change.

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**Entry requirements**
- There are no formal entry requirements, but you must be in engineering-related employment
- Check you have the necessary skills at openuniversity.co.uk/ready-for-engineering

**Assessment**
Based on a mix of:
- Tutor-marked assignments
- Interactive computer-marked assignments
- End-of-module assessments
- Examinations

**Study duration**
Part time: 4.5 years  
Full time: N/A

**Mode of study**
The learning materials provided are a balance of print and online:
- Electronic versions of printed materials available (e.g. PDF)
- Disc-based media (e.g. DVD)
- Online forum
- Collaborative work

---

**FIND AN UNDERGRADUATE COURSE**

Find out more about this course, fees and funding, and how to register

Visit openuniversity.co.uk/x11

Call 0300 303 5303
Top up your existing qualification to an honours degree. You can top up your OU Foundation Degree or Diploma of Higher Education in Engineering or an equivalent qualification from somewhere else.

Tailor your studies to suit your background and previous study. Develop your knowledge and skills and open up further career or educational opportunities. Study choices include communications, design, electronics, environmental management, mathematics, micro and nano technology, structural integrity, and renewable energy. You’ll also complete an individual engineering project.

**Why choose this qualification?**
- Progress from a vocational qualification to an honours degree.
- Choose modules to fit with your previous study.
- Develop your analytical skills, key to the successful study of engineering.
- Prepare for further engineering study at postgraduate level.
- Accredited by several of the leading engineering institutions.

**Accreditation**
The following professional engineering institutions accredit our Top-up BEng (Hons)¹:
- Chartered Institution of Building Services Engineers.
- Institution of Engineering Designers.
- Institution of Engineering and Technology.

¹ With a suitable prior qualification.
Qualification structure
This qualification begins at Stage 3 – your existing qualification will make up Stages 1 and 2.

You’ll choose 90 credits from:
- Electronics: signal processing, control and communications (T312) (30 credits)
- Engineering small worlds: micro and nano technologies (T356) (30 credits)
- Environmental management 2 (T319) (30 credits)
- Innovation: designing for change (T317) (60 credits)
- Renewable energy (T313) (30 credits)
- Structural integrity: designing against failure (T367) (30 credits)
- Communications technology (TM355) (30 credits)
- Deterministic and stochastic dynamics (MS327) (30 credits)
- Graphs, networks and design (MT365) (30 credits)
- Mathematical methods and fluid mechanics (MST326) (30 credits)
- Optimization (M373) (30 credits)

The engineering project (T452) (30 credits)

BACHELOR OF ENGINEERING (HONS)
Qualification delivery, module availability and qualification structure are subject to change.
This general design degree focuses on developing creative design thinking and practical work to address problems in every aspect of life, not just the creative industries.

The design modules feature online design studios, social networking and inspiring study materials alongside a significant practical component. As well as design, you'll study modules in complementary subjects, gaining skills and knowledge in an area that fits your needs and interests.

**Why choose this qualification?**
- Build a portfolio of design work to show your ideas and skills.
- Learn about several different design specialisms.
- Focus on the process and application of design and innovation in real-world contexts.
- Recognised by the Institute of Engineering Designers (IED).

There are two routes through this qualification. There's a Bachelor of Arts (BA) route and a Bachelor of Science (BSc) route. For each route, we've identified themes to help you plan your study – for details go to openuniversity.co.uk/q61.

**Related qualifications**
Diploma of Higher Education in Design and Innovation (W73) openuniversity.co.uk/w73
Certificate of Higher Education in Design and Innovation (T37) openuniversity.co.uk/t37
Qualification structure

Stage 1 120 credits

Design thinking: creativity for the 21st century (U101) (60 credits)

You’ll choose 60 credits from a selection of modules, go to openuniversity.co.uk/q61

Certificate of Higher Education in Design and Innovation (T37)

Stage 2 120 credits

Design essentials (T217) (60 credits)

You’ll choose 60 credits from a selection of modules, go to openuniversity.co.uk/q61

Diploma of Higher Education in Design and Innovation (W73)

Stage 3 120 credits

Innovation: designing for change (T317) (60 credits)

You’ll choose 60 credits from a selection of modules, go to openuniversity.co.uk/q61

MORE ONLINE
Find out more about this course, fees and funding, and how to register
Visit openuniversity.co.uk/q61
Call 0300 303 5303
BSc (HONS) COMPUTING & IT AND DESIGN

This degree combines computing & IT and design. You’ll divide your time equally between subjects. You’ll develop creative design thinking to address computer-based technology problems.

We’ll introduce ideas relating to user-centred design, sustainable design, and the design process. This will complement the skills and knowledge you develop in computing and IT. And you’ll pick a computing and IT focus to fit your needs and interests. Preparing you to contribute to the design of the digital electronic devices of the future.

Why choose this qualification?
- 50:50 split between computing & IT and design.
- Choose from four options within the computing & IT strand.
- Accredited by BCS, the Chartered Institute for IT.
- Quality assured by the European Quality Assurance Network for Informatics Education (EQANIE).

Related qualifications

Diploma of Higher Education in Computing & IT and Design (W42)
openuniversity.co.uk/w42

Certificate of Higher Education in Computing & IT and Design (T13)
openuniversity.co.uk/t13
Qualification structure

**Stage 1** 120 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to computing and information technology 1 (TM111)</td>
<td>30</td>
</tr>
<tr>
<td>Introduction to computing and information technology 2 (TM112)</td>
<td>30</td>
</tr>
<tr>
<td>Design thinking: creativity for the 21st century (U101)</td>
<td>60</td>
</tr>
<tr>
<td>Certificate of Higher Education in Computing &amp; IT and Design (T13)</td>
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</tbody>
</table>

**Stage 2** 120 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design essentials (T217)</td>
<td>60</td>
</tr>
<tr>
<td>Diploma of Higher Education in Computing &amp; IT and Design (W42)</td>
<td></td>
</tr>
</tbody>
</table>

**Stage 3** 120 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Innovation: designing for change (T317)</td>
<td>60</td>
</tr>
<tr>
<td>The computing and IT project (TM470)</td>
<td>30</td>
</tr>
</tbody>
</table>

**BSc (Hons) Computing & IT and Design**

Qualification delivery, module availability and qualification structure are subject to change.

**AT A GLANCE**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Q67</th>
</tr>
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<tbody>
<tr>
<td>Total credits</td>
<td>360</td>
</tr>
<tr>
<td>Start dates</td>
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</tr>
<tr>
<td>Oct 2020</td>
<td>Register by 10 Sep 2020</td>
</tr>
<tr>
<td>Feb 2021</td>
<td>Register by 14 Jan 2021</td>
</tr>
<tr>
<td>Apr 2021</td>
<td>Register by 11 Mar 2021</td>
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<tr>
<td>Entry requirements</td>
<td>No specific requirements</td>
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<tr>
<td>Assessment</td>
<td>Based on a mix of:</td>
</tr>
<tr>
<td>Tutor-marked assignments</td>
<td></td>
</tr>
<tr>
<td>Interactive computer-marked assignments</td>
<td></td>
</tr>
<tr>
<td>End-of-module assessments</td>
<td></td>
</tr>
<tr>
<td>Examinations</td>
<td></td>
</tr>
<tr>
<td>Study duration</td>
<td>Part time: 6 years</td>
</tr>
<tr>
<td>Full time: 3 years</td>
<td></td>
</tr>
<tr>
<td>Mode of study</td>
<td>The learning materials provided are mostly online with some print</td>
</tr>
<tr>
<td>Electronic versions of printed materials available (e.g. PDF)</td>
<td>✔</td>
</tr>
<tr>
<td>Disc-based media (e.g. DVD)</td>
<td>✔</td>
</tr>
<tr>
<td>Online forum</td>
<td>Optional</td>
</tr>
<tr>
<td>Collaborative work</td>
<td>Compulsory</td>
</tr>
</tbody>
</table>

**MORE ONLINE**

Find out more about this course, fees and funding, and how to register

Visit [openuniversity.co.uk/q67-citd](http://openuniversity.co.uk/q67-citd)

Call 0300 303 5303
This flexible degree combines science, technology, engineering and mathematics (STEM). Build your own degree from a wide range of STEM modules and study routes, including psychology and sports science.

Why choose this qualification?
- Choose modules from across STEM subjects or focus on one or two areas.
- Switch direction if your needs or interests change.
- Count university-level credits you’ve gained from elsewhere.

Degree holders in England and Wales
If you’re looking to re-skill or up-skill in STEM subjects, you could still be eligible for a student loan to fund this degree.

For more information, go to openuniversity.co.uk/quals.
How you can focus your combined STEM degree on engineering

This selection of modules shows how you can focus on engineering. Combine it with other STEM subjects that you’re interested in.

This is just one example of the many combinations you can study, you’re not restricted to this route.

Stage 1 120 credits

**Engineering: origins, methods, context**

(T192) (30 credits)

**Engineering: frameworks, analysis, production**

(T193) (30 credits)

You’ll choose 60 credits from a wide range of OU level 1 modules

Stage 2 120 credits

**Core engineering A**

(T271) (30 credits)

**Energy and sustainability** (T213) (30 credits) OR

**Design for engineers** (T218) (30 credits)

You’ll choose 60 credits from a wide range of OU level 2 modules

Stage 3 120 credits

**Engineering small worlds: micro and nano technologies**

(T356) (30 credits)

**Renewable energy**

(T313) (30 credits)

You’ll choose 60 credits from a wide range of OU level 3 STEM modules

BSc (HONS) COMBINED STEM

Qualification delivery, module availability and qualification structure are subject to change.
Do you want the freedom to study a range of subjects that interest you? Then our Open qualifications are ideal.

The degree allows you to choose modules from a wide range of subject areas so you can, for example, combine design modules with modules from other disciplines, such as science or the humanities.

Why choose this qualification?
- Tailor your qualification to suit your needs.
- Choose modules from a wide range of subject areas.
- Study to fit evolving career ambitions or personal interests.
- Open up your career prospects.
- Count previous university study towards your qualification.

Open qualifications and your career
Achieving an Open qualification demonstrates your exposure to different subjects and disciplines, and the rich world-view you’ve developed in the process. You’ll also have a highly employable set of skills and attributes, including:
- adaptability
- critical thinking
- analysis and problem solving.

Research shows almost 86% of graduate job vacancies are open to graduates of any subject (Institute of Student Employers, 2019). Employers value the personal qualities needed to achieve a degree through distance learning.

“The fact that the OU has the option of choosing an Open degree is fabulous. So many people I have spoken to wish that they’d had this option at university rather than going down one route.”

Carol Dow, BA (Hons) Open

Related qualifications
Diploma of Higher Education Open (W34) openuniversity.co.uk/w34
Certificate of Higher Education Open (T09) openuniversity.co.uk/t09
How you can focus your Open degree on design

This selection of modules shows how you can focus on aspects of design in combination with other subjects that are of particular interest to you.

However, this is just one example of the many combinations you can study and you’re not restricted to this route.

Design thinking: creativity for the 21st century (U101) (60 credits)

You’ll choose 60 credits from a wide range of OU level 1 modules

Certificate of Higher Education Open (T09)

Design essentials (T217) (60 credits)

You’ll choose 60 credits from a wide range of OU level 2 modules

Diploma of Higher Education Open (W34)

Innovation: designing for change (T317) (60 credits)

You’ll choose 60 credits from a wide range of OU level 3 modules

BA/BSc (Hons) Open

1 Whether you qualify for a BA or BSc (Hons) Open will be determined by the number of credits you have from modules suitable for a BA or for a BSc.
To work towards a postgraduate qualification, you first need to choose and register on a module that counts towards that qualification.

<table>
<thead>
<tr>
<th>Programme</th>
<th>Code</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering</td>
<td>MSc in Engineering (F46)</td>
<td>38</td>
</tr>
<tr>
<td>Technology Management</td>
<td>MSc in Technology Management (F36)</td>
<td>40</td>
</tr>
<tr>
<td>Systems Thinking in Practice</td>
<td>MSc in Systems Thinking in Practice (F47)</td>
<td>42</td>
</tr>
<tr>
<td>Environmental Management</td>
<td>MSc in Environmental Management (F65)</td>
<td>44</td>
</tr>
<tr>
<td>Open Masters</td>
<td>MA/MSc Open (F81)</td>
<td>46</td>
</tr>
</tbody>
</table>
MSc IN ENGINEERING

Combine modules from engineering analysis and technology. Shape a qualification that suits your career aspirations.

You’ll develop a range of transferable skills, such as creative problem solving, effective communication, project management and concept realisation. You’ll also develop a professional approach to your work and extend your engineering skills. Through the compulsory project module, you’ll attend two weekend residential schools and, as part of a small project team, design and present a solution to a real-world engineering need.

Accreditation
The following professional engineering institutions accredit our Master of Engineering on behalf of the Engineering Council for the purposes of fully meeting the academic requirements for registration as a Chartered Engineer:

- Chartered Institution of Building Services Engineers.
- Institution of Engineering Designers.
- Institution of Engineering and Technology.

Qualification structure

<table>
<thead>
<tr>
<th>MODULE</th>
<th>CREDITS</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>You’ll choose 30 credits from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finite element analysis: basic principles and applications</td>
<td>30</td>
<td>T804</td>
</tr>
<tr>
<td>Manufacture materials design</td>
<td>30</td>
<td>T805</td>
</tr>
<tr>
<td>You’ll choose 60 credits from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus of variations and advanced calculus</td>
<td>30</td>
<td>M820</td>
</tr>
<tr>
<td>Environmental monitoring and protection</td>
<td>30</td>
<td>T868</td>
</tr>
<tr>
<td>Finite element analysis: basic principles and applications</td>
<td>30</td>
<td>T804</td>
</tr>
<tr>
<td>Making environmental decisions</td>
<td>30</td>
<td>T891</td>
</tr>
<tr>
<td>Managing for sustainability</td>
<td>30</td>
<td>T867</td>
</tr>
</tbody>
</table>

1 Currently, only the research route is accredited.
### AT A GLANCE

**Course code**  
F46

**Total credits**  
180

**Start dates**  
- Oct 2020  
  Register by 10 Sep 2020
- Nov 2020  
  Register by 8 Oct 2020
- May 2021  
  Register by 8 Apr 2021

**Entry requirements**  
- UK bachelors degree (or equivalent) with high mathematics content
- If you have appropriate experience, we may allow you to start studying without having a bachelors degree

**Study duration**  
Part time: 3.5 years

### Related qualification

Postgraduate Diploma in Engineering (E22)  
[openuniversity.co.uk/e22](http://openuniversity.co.uk/e22)

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### You’ll study the following:

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Making strategy with systems thinking in practice</td>
<td>30</td>
<td>TB871</td>
</tr>
<tr>
<td>Managing change with systems thinking in practice</td>
<td>30</td>
<td>TB872</td>
</tr>
<tr>
<td>Managing technological innovation</td>
<td>30</td>
<td>TB48</td>
</tr>
<tr>
<td>Manufacture materials design</td>
<td>30</td>
<td>T805</td>
</tr>
<tr>
<td>Strategic capabilities for technological innovation</td>
<td>30</td>
<td>T849</td>
</tr>
<tr>
<td>Mathematical methods and fluid mechanics</td>
<td>30</td>
<td>MST326</td>
</tr>
<tr>
<td>Deterministic and stochastic dynamics</td>
<td>30</td>
<td>MS327</td>
</tr>
<tr>
<td>Team engineering</td>
<td>30</td>
<td>T885</td>
</tr>
</tbody>
</table>

You’ll choose 60 credits from either the Research route or the Professional route below:

#### RESEARCH ROUTE

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research project</td>
<td>60</td>
<td>T802</td>
</tr>
</tbody>
</table>

#### PROFESSIONAL ROUTE

<table>
<thead>
<tr>
<th>Module</th>
<th>Credits</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project management</td>
<td>30</td>
<td>M815</td>
</tr>
<tr>
<td>The MSc professional project</td>
<td>30</td>
<td>T847</td>
</tr>
</tbody>
</table>

#### MSc IN ENGINEERING

- **Option modules**
  - Compulsory modules
  - Intermediate qualification
  - Awarded qualification

Module availability is subject to change.  
² You may choose only one of these two modules.

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**MORE ONLINE**

Find out more about this course, fees and funding, and how to register

Visit  
[openuniversity.co.uk/f46](http://openuniversity.co.uk/f46)

Call  
0300 303 5303
MSc IN TECHNOLOGY MANAGEMENT

This MSc provides the knowledge and skills to make decisions about technology strategy, innovation and management, to make a real difference to your organisation.

You’ll focus on the operational aspects of managing technological innovation and change. Explore a range of capabilities key to the strategic development and management of technological innovation. And conclude with an in-depth investigation of a topic or problem of your choice.

Meet our academics

Dr Sally Caird was invited by New Cities Foundation with partners Cisco to write on the complex challenges facing cities in the 21st century.

“With the increase of smart city programmes around the world, it’s become important to measure the impacts of smart city developments and prove their value. My research focused on identifying suitable measurement, evaluation and reporting to demonstrate that these developments are delivering the future cities we want.”

Find out more about Sally’s research at openuniversity.co.uk/sc.
Qualification structure

<table>
<thead>
<tr>
<th>MODULE</th>
<th>CREDITS</th>
<th>CODE</th>
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<tbody>
<tr>
<td>Managing technological innovation</td>
<td>30</td>
<td>T848</td>
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<tr>
<td>Strategic capabilities for technological innovation</td>
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You’ll choose 60 credits from:

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<tr>
<th>Module</th>
<th>Credits</th>
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<tr>
<td>Making strategy with systems thinking in practice</td>
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<td>TB871</td>
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<tr>
<td>Managing change with systems thinking in practice</td>
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<td>TB872</td>
</tr>
<tr>
<td>Information security</td>
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<tr>
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<tr>
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<tr>
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<tr>
<td>Data management</td>
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<td>M816</td>
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<tr>
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<tr>
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<tr>
<td>Managing for sustainability</td>
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<td>T867</td>
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<td>Capacities for managing development¹</td>
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<td>Conflict and development¹</td>
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<tr>
<td>Managing in a changing world</td>
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<td>Creating and sustaining value</td>
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<tr>
<td>Sustainable creative management</td>
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<td>BB842</td>
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</table>

Leadership and management in intercultural contexts                    | 15      | BB848|
Entrepreneurship in context                                             | 15      | BB851|
Leadership and management of public services                            | 15      | BB852|
Continuing professional development in practice                          | 30      | U810 |

Postgraduate Diploma in Technology Management (E08)

You’ll choose 60 credits from either the Research route or the Professional route below:

**RESEARCH ROUTE**

Research project                                                        | 60      | T802 |

**PROFESSIONAL ROUTE**

The MSc professional project                                             | 30      | T847 |

You’ll choose another 30 credits from any of the options above and left

MSc IN TECHNOLOGY MANAGEMENT

- Compulsory modules
- Option modules
- Intermediate qualification
- Awarded qualification

Module availability is subject to change.¹

¹ Not available after November 2020.
This MSc has the development of holistic thinking skills, and appreciation of multiple perspectives at its core.

Systems thinking skills are relevant in many different areas, for example, business, engineering, environment, development, health, IT management, and organisation change.

Gain insights into the ways other people think about situations. Learn how to apply concepts, tools and techniques developed by systems thinkers.

Develop your own ways of thinking in practice and become aware of how you can act to bring about improvements in complex situations.
Qualification structure

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<tr>
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<tr>
<td>Managing in a changing world</td>
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<td>BB852</td>
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<tr>
<td>Continuing professional development in practice</td>
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<td>U810</td>
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</table>

**Postgraduate Diploma in Systems Thinking in Practice (E28)**

You’ll choose 60 credits from either the Research route or the Professional route below:

**RESEARCH ROUTE**

Research project 60 T802

**PROFESSIONAL ROUTE**

The MSc professional project 30 T847

You’ll choose another 30 credits from any of the options left.

---

<sup>1</sup> Not available after November 2020.
Expand your knowledge and skills needed for effective, informed and creative environmental management.

You’ll examine current local and global concerns. In areas such as environmental protection, natural resource management, and legislation and policy. Develop your skills in unpacking the issues and improving environmental performance in all sectors.

Accreditation

- Chartered Institution of Water and Environmental Management.
- Institute of Environmental Management & Assessment.

Meet our academics

Dr Toni Gladding, Senior Lecturer in Environmental Engineering, describes herself as a ‘dirty microbiologist’. Hear how her research into health and safety of waste management informs Environment Agency policy at openuniversity.co.uk/environmental-management.
Qualification structure

You’ll choose 60 credits from either the Research route or the Professional route below:

**RESEARCH ROUTE**
- Research project 60 T802

**PROFESSIONAL ROUTE**
- The MSc professional project 30 T847

You’ll choose another 30 credits from any of the options left

**MSc IN ENVIRONMENTAL MANAGEMENT**

- Compulsory modules
- Intermediate qualification
- Option modules
- Awarded qualification

Module availability is subject to change.

1 Capacities for managing development (T878) will no longer be an option after November 2020.
2 Environmental monitoring and protection (T868) will be a compulsory module after November 2020.

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**Qualification structure**

<table>
<thead>
<tr>
<th>MODULE</th>
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<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Making environmental decisions</td>
<td>30</td>
<td>T891</td>
</tr>
<tr>
<td>Managing for sustainability</td>
<td>30</td>
<td>T867</td>
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<tr>
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<tr>
<td>You’ll choose 30 credits from:</td>
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<td>Environmental monitoring and protection²</td>
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<td>You’ll choose 30 credits from the options above or from:</td>
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<td>Making strategy with systems thinking in practice</td>
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<td>Managing change with systems thinking in practice</td>
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<td>TB872</td>
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<tr>
<td>Managing technological innovation</td>
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<td>T848</td>
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<tr>
<td>Project management</td>
<td>30</td>
<td>M815</td>
</tr>
</tbody>
</table>
MA/MSc OPEN

Do you want the freedom to create a personalised course of study across a range of academic disciplines? Then our MA/MSc Open is ideal.

Put simply, the MA/MSc Open gives you choice. It allows you the freedom to tailor your qualification to suit you. Choose modules from a wide range of related subject areas to fit your evolving ambitions or personal interests.

Qualification structure

There are two routes through this qualification:

Route 1: You can study 180 credits and specialise within one of the following broadly related study areas:
- Arts, Humanities and Language
- Education, Psychology and Health Science
- Science, Technology, Engineering and Mathematics
- Business, Finance, Human Resources and Law.

Route 2: You can choose to study 120 credits, specialising within one study area (as above) and take up to 60 credits from any other study area, including:
- Further professional development modules.

Module availability is subject to change.

Arts, Humanities and Language modules

<table>
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<td>MA Classical Studies part 1</td>
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<tr>
<td>MA Creative Writing part 1</td>
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<td>MA English part 1</td>
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<td>MA History part 1</td>
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<tr>
<td>MA Philosophy part 1</td>
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Introduction to translation theory and practice 

60 L801

Education, Psychology and Health Science modules

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<td>Educational leadership agency, professional learning and change</td>
<td>60</td>
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<td>Addressing inequality and difference in educational practice</td>
<td>60</td>
<td>EE814</td>
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<tr>
<td>Applied linguistics and English language</td>
<td>60</td>
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<td>Learning and teaching: educating the next generation</td>
<td>60</td>
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<td>Technology-enhanced learning: foundations and futures</td>
<td>60</td>
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<td>Openness and innovation in elearning</td>
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<td>Introduction to mental health science</td>
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<td>Principles of social and psychological inquiry</td>
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Science, Technology, Engineering and Mathematics modules

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<th>MODULE</th>
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</thead>
<tbody>
<tr>
<td>Information security</td>
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<tr>
<td>Data management</td>
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<td>M816</td>
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<tr>
<td>Calculus of variations and advanced calculus</td>
<td>30</td>
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<td>Analytic number theory I</td>
<td>30</td>
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<tr>
<td>Advanced mathematical methods</td>
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<tr>
<td>Coding theory</td>
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<td>Space science</td>
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<td>Finite element analysis: basic principles and applications</td>
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<td>Manufacture materials design</td>
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<td>Environmental monitoring and protection</td>
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<tr>
<td>Making environmental decisions</td>
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### AT A GLANCE

**Course code**  
F81

**Total credits**  
180

**Start dates**  
- Oct 2020
- Nov 2020
- Feb 2021
- May 2021

**Entry requirements**  
Enter to this qualification will typically require a bachelors degree or equivalent qualification relevant to your intended specialist area of study.

**Study duration**  
Part time: 3 years

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### Business, Finance, Human Resources and Law modules

<table>
<thead>
<tr>
<th>MODULE</th>
<th>CREDITS</th>
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<tbody>
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<td>Introduction to corporate finance</td>
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<td>Financial strategy: valuation, governance and ethics</td>
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<tr>
<td>Research methods for finance</td>
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<td>B860</td>
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<tr>
<td>The human resource professional</td>
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<td>Employment relations and employee engagement</td>
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<td>Workplace learning with coaching and mentoring</td>
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<td>Exploring legal meaning</td>
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<td>Exploring the boundaries of international law</td>
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<tr>
<td>Business, human rights law and corporate social responsibility</td>
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### Further professional development modules

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<td>Derivatives and risk management</td>
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<td>Sustainable creative management</td>
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<td>Leadership and management in intercultural contexts</td>
<td>15</td>
<td>BB848</td>
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<tr>
<td>The networked practitioner</td>
<td>30</td>
<td>H818</td>
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<td>The critical researcher: educational technology in practice</td>
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<td>H819</td>
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<td>Advance your independent learning</td>
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**MORE ONLINE**

Find out more about this course, fees and funding, and how to register.

Visit [openuniversity.co.uk/f81](http://openuniversity.co.uk/f81)

Call 0300 303 5303
You’ve taken the first step by requesting this prospectus. Continue your journey by visiting our website at openuniversity.co.uk and finding out more about the courses we offer and how studying with the OU works.

You’ll be able to:

‒ read more in-depth information on the qualifications you’re interested in
‒ discover more about the support you can receive from the University and fellow students
‒ find out how you can fund your studies, including our flexible payment options
‒ register for your course.

Or, if you’d prefer to speak to one of our advisers, contact us using the details provided on the back of this prospectus.

Alternatively, write to us at:

Student Recruitment
The Open University
PO Box 197
Milton Keynes
MK7 6BJ
United Kingdom

Our other prospectuses
Are you interested in other Open University qualifications?
Download or order one of our other prospectuses at openuniversity.co.uk/prospectus.

Subject-specific prospectuses
‒ Arts and Humanities
‒ Business and Management
‒ Computing and IT
‒ Education, Childhood, Youth and Sport
‒ Environment and Development
‒ Health and Social Care
‒ Languages and Applied Linguistics
‒ Law
‒ Mathematics and Statistics
‒ Psychology and Counselling
‒ Science
‒ Social Sciences

Other prospectuses
‒ Access Modules
‒ Open Qualifications
‒ Undergraduate Courses
‒ Postgraduate Courses

Equality and diversity
We’re committed to creating an inclusive university community where everyone is treated with dignity and respect. We challenge inequality, and anticipate and respond positively to different needs so that everyone can achieve their potential.

Find out more by visiting openuniversity.co.uk/equality.

Data protection
We record your personal information when you contact us. We use this to manage enquiries, registration, study, examination and other services. Calls may be recorded to help us improve our service to you. When you contact us, we’ll tell you more about how we treat your personal information.

For more information go to openuniversity.co.uk/privacy.
AMBITIONS
PLANS
GOALS

What's next?

Get in touch or go online to find out more:

0300 303 5303
openuniversity.co.uk

Other ways to read this prospectus

You may find it easier to access information from our website at openuniversity.co.uk.

We can also supply this prospectus as a PDF and in other formats. Please call 0300 303 5303, or email us from our website at openuniversity.co.uk/contact.

We have made all reasonable efforts to ensure that the information in this prospectus is accurate at the time of publication. However, we shall be entitled, if we consider it reasonably necessary (including in order to manage resources and improve student experience) to make changes, including to the availability of modules and qualifications, to qualification structure and to our regulations, policies and procedures. For current information, please refer to our online prospectus at openuniversity.co.uk/courses. If you require further information about the circumstances in which we may make changes, please contact us or refer to the Academic Regulations on our website at openuniversity.co.uk/academic-regulations.
GET IN TOUCH

In England, Scotland, Wales, the Channel Islands, the Isle of Man and BFPO addresses
- Go to openuniversity.co.uk
- Email us from our website openuniversity.co.uk/contact
- Call our Student Recruitment team on 0300 303 5303

Lines are open (UK time)
Monday to Friday: 08:00–20:00
Saturday: 09:00–17:00
Calls are charged at the local rate when calling from a UK mobile phone or landline.

In the Republic of Ireland
- Go to openuniversity.edu
- Email ireland@open.ac.uk
- Call our Enquiry and Advice Centre in Dublin on (01)6785399 or our Belfast office on +44 (0)28 9032 3722

In Northern Ireland
- Go to openuniversity.co.uk
- Email northernireland@open.ac.uk
- Call our Belfast office on 028 9032 3722

All other countries
- Go to openuniversity.edu
- Call us on +44 (0)300 303 0266

I siaradwyr Cymraeg
Os ydych yn siarad Cymraeg a byddai’n well gennych dradodewyd angenhion astudio drwy gyfrwng y Gymraeg, cysylltwch â:

Y Brifysgol Agored
ynghyd â
18 Heol y Tolly
Caerdydd
CF10 1AP
- Ffoniwch ni ar 029 2047 1170
- Ebost wales-support@open.ac.uk