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BEng (Hons) GENERAL ENGINEERING

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Course overview

**START DATE**

September 2020

**SUBJECT AREA**

Engineering

Course Summary

The BEng in Engineering Management will enable you to deepen your knowledge and understanding in core engineering related disciplines. Students will also acquire research and business skills demanded by industry and the professional accrediting bodies, such as IMechE, IET, iED (Institution of Engineering Designers) and CSD (Chartered Society of Designers).

Alongside traditional engineering modules, the course makes use of the expertise the University has in delivering management related modules. This ensures students are prepared for the increasing demands in the industry for engineers with management skills. On completion of the course students will be qualified to take leading roles in technical and project management positions.

This is a unique course that will give you the opportunity to develop specialised skills, knowledge and the intellectual ability to work as an engineer, designer or researcher in your preferred field. The BEng in Engineering enables students to identify the route they would like to follow and gain the appropriate qualification to pursue it. They can continue their studies to MEng in Engineering Design, Engineering Management or General Engineering.

UCAS POINTS

112

COURSE OPTIONS

Degree

UCAS CODE

H102

APPLY



Return to campus: dual delivery

In a Covid-secure environment, enjoy learning on our state-of-the-art campuses and flex between online delivery

[Find out more](#)



Strong industry links

We have strong links with world leading organisations and international businesses. We work with respected names like Atkins, Careys, SRK Consulting, Thames Water, Vinci, Waterman and WSP, plus the London Boroughs of Newham and Waltham Forest, on real-life projects.

We'll

 ENQUIRE

VISIT

Dr Lee

Mechanical Engineering, MEng, Course Leader

UEL is committed to help you to reach your full potential. A degree in Engineering at UEL will give you the skills and abilities as a professional engineer to face the challenge of tomorrow.

FEES AND FUNDING

GOVERNMENT FUNDING

Tuition Fee Loan

You can apply for a loan to cover the cost of your tuition fees, which will be paid directly to UEL. There are no up-front fees required. Repayment only starts after you finish your course and are earning over £25,000. If you haven't finished repaying your loan after 30 years it will be automatically cancelled.

To apply visit gov.uk/student-finance

Maintenance Loan

You can apply for a loan to help with living costs such as food, travel and accommodation. How much you can borrow depends on where you live and study, and whether you are currently on welfare benefits. The maximum loan you can apply for is £12,729.

To apply visit gov.uk/student-finance

Supplementary Grants

The government also offer the following additional support:

- Parents' Learning Allowance
- Adult Dependants' Grant
- Childcare Grant
- Disabled Students' Allowance
- All nursing and many allied health students on courses from September 2020 will receive a payment of at least £5,000 a year from the government.

For further information visit gov.uk/student-finance or contact Student Finance England.

UEL FUNDING

We appreciate that finance is one of the key considerations when you are applying to university. That's why alongside your Government loan, you can apply for scholarships to help towards your finances. We have invested over £2 million worth of scholarships to financially assist new students, starting in September 2019. If you are awarded a scholarship you don't need to pay it back.

All students will receive:

Ebooks

Bursaries Schemes for which you can apply

- [Care Leaver and Foyer Bursary - up to £1,500](#)
- [Progression Bursary - up to £2,000](#)
- [Engagement Bursary - up to £2,000](#)
- [Hardship Bursary - up to £2,000](#)
- [Helena Kennedy Foundation - £1,500](#)
- [Going Global - awards range from £300 - £700](#)

Scholarships Schemes for which you can apply

- [Vice Chancellor Scholarship - up to £27,750 over three years](#)
- [Dean Scholarship - up to £13,500 over three years](#)
- [Civic Engagement Scholarship - £1,000](#)
- [EU Scholarship \(EU Only\) - £1,000](#)
- [ELSEF Scholarship - £1,000](#)
- [UTC Scholarship - £1,500](#)
- [Sports Scholarships - up to £6,000](#)

EXTERNAL FUNDING

There are a number of external organisations that offer financial help to students. Please see the list below list to view additional support options. Alternatively, you can visit the [Scholarship Search](#) website.

Please note that the University of East London is not responsible for the content of these external sites and is not associated in any way with the funding schemes and their application processes.

- [Bank Of England Scholarship Programme](#)
- [European Funding Guide](#)

- [The Student Disability Association Fund](#)
- [Sir John Cass's Foundation](#)
- [The Leverhulme Trade Charities Trust](#)
- [The Newby Trust](#)
- [Walcot Foundation](#)
- [Scholarships Search](#)

CONTACT US

The Student Money Advice and Rights Team (SMART) are here to help you navigate your finances while you are a student at the University of East London.

We can give you advice, information and guidance on government and university funds so that you receive your full funding entitlement.

Email: study@uel.ac.uk

Phone: 020 8223 4444

£ Tuition fees

UK

£9,250

You don't need to pay this up front

Tuition fees are subject to annual change. Fees for future years will be published in due course.

ENTRY REQUIREMENTS

September 2020

Degree

Integrated Master's

112

NEW UCAS POINTS

FROM

A LEVEL

Including passes at A2 in at least two subjects. Must include Maths and Physics or Electronics

FROM

BTEC

Extended Diploma or Diploma in a related subject.

FROM

INTERNATIONAL BACCALAUREATE

Diploma with 29 points including a minimum of 16 points at Higher Level, must include Maths and Physics at Higher Level

INTERNATIONAL

(Including European Union)

SEE YOUR
COUNTRY

OTHER ENTRY ROUTE

Access to HE Diploma (QAA approved) in a Relevant Engineering Subject (Access to HE Engineering, Electronics and Computer Engineering, Construction and Civil Engineering) with 60 credits overall and 45 credits at Level 3 to include at least 30 Level 3 credits at Merit or Distinction and level 3 Maths (Calculus, Differentiation and Integration) – all with Grade Merit.

ENGLISH LANGUAGE REQUIREMENTS

Overall IELTS 6.0 with a minimum of 6.0 in Writing and Speaking; minimum 5.5 in Reading and Listening (or recognised equivalent).

If you do not meet the academic English language requirements for your course, you may be eligible to enrol onto a pre-sessional English programme. The length of the course will depend on your current level of English and the requirements for your degree programme. We offer a 5-week and an 11-week pre-sessional course. [Find out more.](#)

ALTERNATIVE GCSE QUALIFICATIONS

Level 2 equivalences such as Level 2 Functional Skills in English / Maths, Level 2 Key Skills in Communication / Application of Number and Level 2 Adult Literacy / Adult Numeracy

FURTHER ADVICE AND GUIDANCE

You can speak to a member of our Applicant Enquiries team on +44 (0)20 8223 3333, Monday to Friday from 9am to 5pm. Alternatively, you can visit our [Information, Advice and Guidance](#) centre.

WHAT YOU'LL STUDY AND WHEN

We consistently review our courses to ensure we are up-to-date with industry changes and requirements from our graduates. As a result, our modules are subject to change.

FOUNDATION YEAR (IF REQUIRED)

- Mental wealth; professional life
- Analytical Mathematics
- Engineering Sciences
- Mathematical Applications
- Physical Sciences
- Introduction to computing

YEAR 1

- Mental Wealth: Professional Life
- Engineering Materials
- Engineering Principles
- Applied Mathematics and Computing
- Thermofluids
- Engineering Mechanics

YEAR 2

- Mental Wealth: Professional Life 2
- Advanced Mathematics and Modelling
- Interdisciplinary Studies and Group Project
- Engineering Design and Analysis
- Applied Mechanics
- Dynamics and Control
- Engineering Surveying
- Thermofluid Dynamics
- Water Engineering
- Quality Engineering
- Applied Electronics
- Advance Programming

YEAR 3

- Mental Wealth: Professional Life 3
- Capstone Project
- Advanced Mechanics
- Advanced Manufacturing Technology
- Turbomachinery and Energy Systems
- Transport Infrastructure Engineering
- Advanced Construction Technology and Innovation
- Systems Integration

How you'll be assessed

WHAT YOU'LL LEARN

You will benefit from UEL's superb links with major engineering firms in the area including Ford Motor Company, Crossrail and Canary Wharf Contractors. These employers host visits and offer work placements to students studying this course.

Studying on the BEng/MEng Engineering programme you will gain real-world experience working on industrially relevant projects. You will also have the option to add a year-long placement to your course.

We regularly enter a range of national and international competitions designed for undergraduates, such as IMechE Design Challenge, Formula Students and Shell Eco- Marathon. This builds teamwork skills and also gives you an appreciation of the real-life technical, financial and time constraints encountered by engineers.

We also run regular trips to exhibitions such as the Engineering Design Show and Advanced Engineering UK to help students keep up with the latest industry developments.

HOW YOU'LL LEARN

You'll be guided by teaching staff with many years' experience of working in or being closely connected to directly relevant industry.

These links are vital in organising student visits and guest speakers at the University of East London. They're also hugely helpful when it comes to organising industry placement years – an option you can take up between your second and third years.

Placement students, who will be aided by an employment liaison officer, gain a greater understanding of the industry and this may count towards the experience requirement for a professional engineering qualification. But some prefer to complete the three-year course and move on.

Regular contact with our industrial liaison advisory board maintains the currency of our course and thereby the employment and career paths of our graduates.

You'll have access to excellent laboratory facilities and computer suites which will allow you, among many other things, to use simulation and modelling application software for virtual design and manufacturing.

Teamwork is actively encouraged throughout the course. In your first year, for instance, you will do a Skills for Mechanical Engineers module which will involve group activity.

Your studies are based on a three-year full-time (or five-year part-time) course. If you go for the placement option, your degree will take four years. We teach you primarily through formal lectures, tutorials, and laboratory sessions.

Who will teach on this course

[Ka Lok Lee](#)

The teaching team includes qualified academics, practitioners and industry experts as guest speakers. Full details of the academics will be provided in the student handbook and module guides.

YOUR FUTURE CAREER

The programme provides three streams of study that prepares students for careers in a wide range of industries closely related to mechanical engineering.

As engineers eligible for registration with the IMechE, IET or iED at CEng level, the career opportunities available include aerospace, automotive, production, process engineering, product design and design engineering. The anticipated roles for graduates range from design and development professionals through to management roles.

Explore the different career options you can pursue with this degree and see the median salaries of the sector on our [Career Coach portal](#)

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MEng

Mechanical Engineering (Integrated Master's)

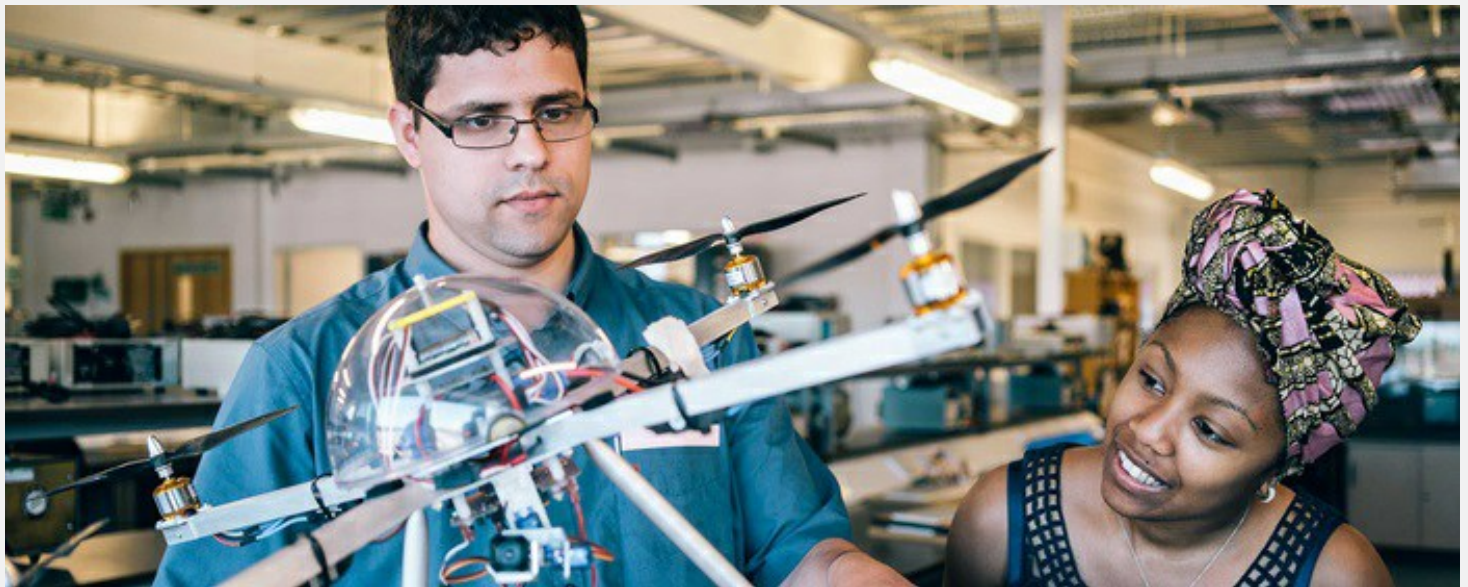
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