Our Electronic & Information Engineering MEng course focuses on four key areas: circuits and systems, programming, signal processing and communication. You will gain deep theoretical and practical expertise in general electronic and information engineering design techniques. You will also learn the necessary engineering and mathematical skills for careers in electronics and computer technology industries.

**Key benefits**

- Unique combination of electronic engineering modules with those in computer science and robotics.
- Gain a broad understanding of how engineering translates to everyday life through mobile and personal communications as well as information security.
- Study in a multidisciplinary department.
- Benefit from our long-standing links with various companies, including Orange, Vodafone, Nokia, NEC, Huawei, BT and Texas Instruments.
- Modules designed to enhance employability coupled with being based at the heart of the UK’s information hub ensures you leave with transferable and entrepreneurial skills.

**Course details**

Our Electronic & Information Engineering MEng course provides you with a strong foundation in electronic engineering and information engineering at the same time as giving you a grounding in general communications and computer networks theory and practice. There is a strong focus on developing mathematical skills, which you will use for the analysis and design of control systems and communication systems. You will study modules across circuit theory, computer systems and hardware design. In your final two years you can choose from optional modules that include robotic systems, pattern recognition, digital signal processing and other advanced topics.

You will be taught by academics who are world-leading experts in their fields, benefitting from their decades of knowledge and experience. Our course will also help you develop practical skills by translating electronic engineering and information engineering into everyday life through security and mobile and personal communications.

You will have access to over 250 fast PCs running Windows and Linux. These are spread over several state of the art laboratories for the exclusive use of the Department.

Our student societies organise social and other activities.
Teaching
You are expected to spend approximately 10 hours work per credit for each module you attend in your degree, e.g. 150 hours work for a 15 credit module. These hours cover every aspect of the module: lectures, tutorials, laboratory sessions, independent study, coursework and preparation for examinations.

Assessment
You will be assessed through written examinations, project reports, and coursework. For the practical and design elements, you will be assessed through laboratory write-ups, design projects, presentations, research project reports and oral examinations.

Regulating body
King’s College London is regulated by the Office for Students.

Course structure
Courses are divided into modules. Each year you will normally take modules totalling 120 credits.

Year 1
Required modules
You are required to take:
- Computational & Mathematical Thinking for Engineers I (15 credits)
- Computational & Mathematical Thinking for Engineers II (15 credits)
- Computer Systems (15 credits)
- Foundations of Computing 1 (15 credits)
- Mechanics for Engineers (15 credits)
- Electronics Applications Project & Engineering Lab 1 (15 credits)
- Logic Design (15 credits)
- Circuit Theory (15 credits)

Optional modules
There are no optional modules for this course in Year 1.

Year 2
Required modules
You are required to take:
- Electricity & Magnetism (15 credits)
- Signals & Systems (15 credits)
- Principles of Electronics (15 credits)
- Electronics Applications Project & Engineering Lab 2 (15 credits)
- Engineering Mathematics (15 credits)
- Engineering & Entrepreneurial Skills (15 credits)
- Electronic Circuits (15 credits)

Optional modules
In addition, you are required to take 15 credits from a range of optional modules, which may typically include:
- Internet Systems (15 credits)
- Foundations of Computing 2 (15 credits)

Year 3
Required modules
You are required to take:
- Group Project (30 credits)
- Real Time Systems & Control (15 credits)
- Hardware Design (15 credits)

Optional modules
In addition, you will take 60 credits from a range of optional modules, which may typically include:
- Communication Systems (15 credits)
- Optimisation Methods (15 credits)
- Sensors & Actuators (15 credits)
- Computer Vision (15 credits)
- Cryptography (15 credits)
- Pattern Recognition (15 credits)
- Robotic Systems (15 credits)
- Artificial Intelligence Planning (15 credits)
- Formal Verification (15 credits)

Year 4
Required modules
You are required to take:
- Electronic Engineering Individual Project (30 credits)
- Random Variables & Stochastic Processes (15 credits)
- Telecommunication Networks 1 (15 credits)

Optional modules
In addition, you are required to take 60 credits from a range of optional modules which may typically include:
- Digital Communications (15 credits)
- Digital Signal Processing (15 credits)
- Telecommunication Networks II (15 credits)
- Cryptography (15 credits)
- Mobile & Personal Communications (15 credits)
- Optical Communications (15 credits)
- Communications Theory (15 credits)
- Network Theory (15 credits)
- Robotic Systems (15 credits)
- Antennas & Propagation (15 credits)

King’s College London reviews the modules offered on a regular basis to provide up-to-date, innovative and relevant programmes of study. Therefore, modules offered may change. We suggest you keep an eye on the course finder on our website for updates.
Location

The course is taught at King’s Strand and Waterloo Campuses, putting you in the heart of London with access to all its academic resources and within easy reach of the social and entertainment attractions of one of the world’s most cosmopolitan cities.

The Department of Informatics offices are based at the recently renovated (2017) Bush House on the Strand Campus.

Career prospects

The Careers Service and the Department of Informatics run a careers programme for Informatics students, which includes skills sessions and visits from top employers. Our graduates go on to successful careers in a wide range of organisations including banking, finance, management, and the major software houses, where they work mainly on analysis, design, implementation and maintenance of software applications and systems. Alternatively, many of our graduates choose further study.

Recent graduates from the department have found employment at:

- Vodafone
- British Telecom
- Ericsson
- Toshiba
- Thales Group
- Bosch
- Skype
- O2

Fees and funding

Full-time tuition fees – UK

The UK tuition fees for the 2019-20 academic year are available on the course web page.

Please note that the tuition fees for subsequent years of study may be subject to increases in line with King’s terms and conditions.

Full-time tuition fees – EU

Students starting their programme in 2019/20 (September 2019) who are eligible to pay EU fees will pay the same rate of tuition fees as UK students. This will apply for the duration of their programme, but may be subject to change by the UK Government for subsequent cohorts from 2020/21. The UK tuition fees for the 2019-20 academic year are available on the course web page.

Please note that the tuition fees for subsequent years of study may be subject to increases in line with King’s terms and conditions.

Full-time tuition fees – International

The international tuition fees for the 2019-20 academic year are available on the course web page.

Please note that the tuition fees for subsequent years of study may be subject to increases in line with King’s terms and conditions.

All International applicants to undergraduate courses are required to pay a deposit of £2,000 against their first year’s tuition fee. This deposit is payable when you firmly accept an unconditional offer to study with us, and will be offset against your tuition fees when you join King’s.

For further information, please visit the fees and funding section of our website: www.kcl.ac.uk/study/undergraduate/fees-and-funding/index.aspx

Additional costs

In addition to your tuition costs, you can also expect to pay for:

- books if you choose to buy your own copies
- clothing for optional course related events and competitions
- library fees and fines
- personal photocopies
- printing course handouts
- society membership fees
- stationery
- graduation costs
- travel costs around London and between campuses
- alternative venue examination fees

Disclaimer

Although this PDF was up-to-date at the time it was produced, please make sure you check our website www.kcl.ac.uk/study or contact us directly for the very latest information before you commit yourself to any of our courses.

Contact us

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