PROGRAMME SPECIFICATION

KEY FACTS

<table>
<thead>
<tr>
<th>Programme name</th>
<th>Electrical and Electronic Engineering, Electrical and Electronic Engineering with Placement</th>
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<tbody>
<tr>
<td>Award</td>
<td>MEng (Hons)</td>
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<tr>
<td>School</td>
<td>Mathematics, Computer Science and Engineering</td>
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<td>Department or equivalent</td>
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<td>Type of partnership</td>
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PROGRAMME SUMMARY

The MEng Honours Programme is a four-year, or five-year with placement, full time degree comprising 480 credits (4800 study hours) structured as four Programme Stages, each typically delivered over 22 contact weeks, 4 examination weeks, 4 reflective learning (private study) weeks and 8 vacation weeks (which may be used for private study) per academic year. MEng (Hons) Programme therefore requires a commitment of 40 study hours per week during the academic year.

During the degree, engineering knowledge is built-up and nurtured, with specific objectives associated with each component Programme Stage. Development of design skills and team work are at the heart of the City University London engineering degrees throughout the programme. Programme Stage 1 is common across all of the engineering degrees. This introductory year is intended to give you a thorough grounding in the fundamental and applied science and mathematics appropriate for an engineer, as well as developing personal skills such as time and quality management. During Programme Stage 1, you will have the opportunity to undertake preliminary engineering designs through group activity. At the end of Programme Stage 1 (assuming that you have met the academic requirements described below) you will have the opportunity to decide whether to remain on the MEng (Hons) Electrical and Electronic Engineering degree or switch to one of 5 other engineering MEng (Hons) degrees. This flexibility in choice at the end of Programme Stage 1 enables you to follow the discipline that best matches your strengths and most attracts you. In Programme Stage 2 you will start to specialise and learn to apply engineering analysis to simple but representative components of engineering systems. You will also be introduced to the fundamentals of electronic circuit design while also studying mechatronics, measurement, data analysis and fluid mechanics. As with other years, a significant proportion of Programme Stage 3 is focussed upon project design work. It will be in Programme Stage 3 that you will be provided with a realistic engineering system design task, approaching a professional level exercise. This enables you to
draw together and apply knowledge gained over a number of subject areas. In Programme Stage 3 you also study specialist topics including signal processing, telecommunications, control engineering, electromagnetism and power engineering together with the numerical tools used for analysis in industry today. These modules involve looking at analysis in increasing depth alongside examining a greater breadth of system complexity. Engineering management studies in Programme Stage 3 focus upon people and organisations, with case studies and invited lectures from industry professionals. At Programme Stage 4 you select one from a range of Level-7 individual research projects, in addition to major group design activities (mentored by industry experts) and Level-7 studies in microelectronics, advanced signal processing and advanced control engineering.

If you wish to gain practical experience during your degree, then you have the option of spending 12 months, between Programme Stages 3 and 4, on a paid industrial placement. We strongly recommend this (see the subsequent section entitled ‘What Placement opportunities are available?’).

At the end of the programme, you will have acquired the knowledge and understanding of analysis and design techniques, practical and personal skills required for a career in engineering. The Integrated Masters (MEng Honours) Programme develops you to a high level of professional as well as engineering competence, through broad engineering experience involving market analysis, commercial operational and regulatory constraints, project and team management, multi-disciplinary design and, where relevant, manufacture.

**Certificate of Higher Education**
Upon successful completion of Programme Stage 1 you will be able to: (i) discuss underlying concepts and principles associated with fundamental science and technology, (ii) to develop skills in time and quality management and (iii) present, interpret and evaluate quantitative and qualitative data within your subject of study appropriate to the formation of an engineer. At this stage, having gained all the necessary credits, you will either: (i) automatically progress onto Programme Stage 2 of the MEng (Hons) in Electrical and Electronic Engineering or (ii) decide to switch onto one of 5 other MEng (Hons) engineering degrees (Civil, Biomedical, Engineering, Aeronautical, or Mechanical) or (iii) leave the University with a Certificate of Higher Education in Engineering.

**Diploma of Higher Education**
Upon successful completion of Programme Stage 2 you will have: (i) built upon your previous knowledge and experience, (ii) developed critical understanding of the well-established principles, and of the way in which those principles have developed in your area of study and (iii) advanced your skills of enquiry and different approaches to problem-solving as well as identify the limitations of your knowledge in your subject. At this stage, having gained all the necessary credits, you will either: (i) automatically progress onto Programme Stage 3 of the MEng (Hons) in Electrical and Electronic Engineering or (ii) leave the University with a Diploma of Higher Education in Electrical and Electronic Engineering.

**BEng Degree**
Upon successful completion of Programme Stage 3 you will: (i) have developed a coherent systematic, detailed knowledge of your discipline and (ii) be able to confidently develop and employ appropriate techniques and methods in mathematical modelling and experimentation for engineering problem-solving, analysis and design. At this stage, having gained all the necessary credits, you will either: (i) automatically progress onto
Programme Stage 4 of the MEng (Hons) in Electrical and Electronic Engineering or (ii) leave the University with a bachelors ordinary degree in Electrical and Electronic Engineering or (iii) you may, at the discretion of the appropriate Bachelor of Engineering Assessment Board, be allowed credit towards a Bachelor of Engineering degree for studies undertaken on the MEng degree programme.

**MEng (Hons) Degree**

Upon successful completion of Programme Stage 4 (having gained all of the necessary credits) you will have met the requirements of the MEng (Hons) in Electrical and Electronic Engineering degree and will: (i) have developed an in-depth and comprehensive knowledge and understanding of electrical and electronic engineering, (ii) be able to create, apply and synthesize techniques and methods in mathematical modelling and experimentation for problem-solving, analysis and design of a wide variety of electrical and electronic engineering products and situations, (iii) be able to develop originality in the application of knowledge and techniques and advance scholarship in your area of study and (iv) be able to lead or participate in group design activities which mirror realistic engineering practices and situations.

**Aims**

The overall aim of the MEng (Hons) in Electrical and Electronic Engineering is to provide an excellent education in engineering with specialised training for a professional career in the power, electronics and associated industries. This will include the research, development, design, production, commissioning, operation and management aspects of those industries.

The specific aims (further elaborated below in the section ‘What will I be expected to achieve?') are to produce graduates who:

- have a broad and in-depth knowledge and understanding to solve a range of complex technical problems in electrical and electronic engineering, scientific research and design environments,
- are able to apply and integrate knowledge and understanding of other engineering disciplines to support their studies in electrical and electronic engineering, and to evaluate them critically and apply them effectively,
- are logical, numerate, have a natural curiosity about the scientific world and are able to problem-seek as well as problem-solve,
- demonstrate an attention to detail, without losing sight of the overall picture,
- have a sound knowledge and understanding of business and management to participate effectively in team work and large commercial organisations,
- are aware of their professional and ethical responsibilities, the global and societal impact of engineering solutions, as well as the economic and political issues,
- are able to communicate effectively to a wide range of audiences,
- exhibit team loyalty and have the ability and confidence to be a leader in industry,
- are able to undertake postgraduate level study in engineering with minimum supervision.
WHAT WILL I BE EXPECTED TO ACHIEVE?

On successful completion of this programme, you will be expected to be able to:

Knowledge and understanding

- Design solutions for different engineering problems using comprehensive knowledge and systematic understanding of the scientific principles upon which electrical and electronic engineering is based, including those which underpin current and future technological advances in the sector (UK-SPEC KU1, US1m, US4m, E1m).
- Design solutions for different engineering problems using a systematic understanding of the mathematical and computational models used to analyse engineering components and systems and an appreciation of their limitations (UK-SPEC KU1, US2m, US5m, E1).
- Collect concepts from a range of areas including some outside engineering and evaluate them critically (UK-SPEC US6m).
- Apply technical knowledge and understanding in with the engineering design/build/test process, including customer requirements, dependencies, assumptions, constraints and creative solutions to problems; also with recent or planned developments in practice and generate innovative design for systems to fulfill new needs (UK-SPEC IA2, D1, D2, D3, D4, D6, P1m, P8m).
- Refer to practical experience of the concept of fitness for purpose and the separate consideration of production, operation, maintenance and disposal of an engineering system and adapt them in unfamiliar situations (UK-SPEC D2, D5, P7, P8m).
- Refer to practical experience of the multi-disciplinary character of engineering and making decisions based upon social, environmental/sustainable development, ethical, legal, economic and commercial considerations (UK-SPEC KU2, KU3, US3, D3, S1m, S2m, S4).
- Conform with current technological and manufacturing/operational practice in the engineering industry and with future trends in relevant areas while creating solutions that apply quantitative techniques where appropriate (UK-SPEC S1, S3, P1m, P3, P6).
- Evaluate concepts from outside engineering which nonetheless drive engineering practice and business development (UK-SPEC US3m, S2m, P8m).
- Apply fully the broad range of management tools and techniques required to run an engineering business. This includes project and change management, their limitations and how they may be applied appropriately (UK-SPEC S2, S3m, S4, P2m, P5).
- Apply extended knowledge and systematic understanding, of the type described above, specific to the principles and practice of system design in electrical and electronic engineering, manufacture, operation and maintenance and awareness of developments in the field (UK-SPEC US1m, US3, US4m, E4, P1m).
- Assess and predict the electrical and electronic engineering industry as a business enterprise in national and international economies (UK-
Skills:

- Tackle confidently unfamiliar electrical and electronic engineering problems (*UK-SPEC E2m, D1m*).
- Gather, integrate and evaluate information from various sources including technical literature (*UK-SPEC GT1, P4*).
- Break down a problem into a series of engineering tasks to be solved under a set of multi-disciplinary constraints (*UK-SPEC D1*).
- Communicate effectively in technical and non-technical languages, written, oral and graphical forms to individuals and large audiences (*UK-SPEC GT1*).
- Be proficient with IT and communications systems (*UK-SPEC GT1*).
- Use laboratory equipment for data measurement, processing, interpreting and analysis (*UK-SPEC P2, P8*).
- Use workshop equipment to produce or modify an engineering component (*UK-SPEC PS1, P2*).
- Be proficient with analytical, computational and experimental techniques (including assessing the limitations of the results obtained), coupled with experience and decision-making, to solve complex engineering problems (*UK-SPEC IA1, US2m, E2m, E3m*).
- Apply initiative, creativity and innovation to design, construct and test a system, component or process to meet specifications (*UK-SPEC E4, D5, D6, D4m*).
- Evaluate designs, processes or products and make improvements, taking into consideration associated commercial risks, societal and environmental impact (*UK-SPEC IA2, D6, S1m, P7*).
- Work with technical uncertainty (*UK-SPEC P8*).
- Work with levels of detail appropriate to the criticality of the task (*UK-SPEC IA3*).
- Plan for and manage time/cost/quality of an engineering project, including adjusting plans to changing circumstances and controlling such adjustments (*UK-SPEC PS1, D3, D6, P7m*).
- Exercise leadership (*UK-SPEC GT1, S2m*).

Values and attitudes:

- Put the needs of the team ahead of one’s own needs (*UK-SPEC GT1*).
- Willingly take on the professional and ethical responsibilities of engineers in society (*UK-SPEC KU3, S5*); commit to continuous improvement to enhance professional skills and benefit society (*UK-SPEC GT1, P7*).
- Adopt not just a problem-solving but problem-seeking attitude to the engineering challenges presented to you.
- Willingly take the lead in difficult situations (*UK-SPEC GT1*).

This programme has been developed in accordance with the QAA Subject Benchmark for Engineering.
**HOW WILL I LEARN?**

The majority of learning in Higher Education is typically conducted through private study. Engineering is a practical discipline which benefits from significant supervised study, but it cannot be learnt through lectures alone. In Programme Stages 1 and 2 there is a higher proportion of supervised study (compared with Programme Stages 3 and 4), with typically 20-24 hours of contact timetabled each week. These supervised contact hours are designed to assist and to focus your private study. Teaching involves a combination of theoretical, experimental and computational study. Our approach is to encourage critical thinking and foster your curiosity. By the time that you reach Programme Stage 3, the tutorial and practical elements are managed more by you, especially in relation to your individual project work. In Programme Stage 4 the MEng Project gives you an opportunity to work independently, under the guidance of a member of staff, to undertake research into a topic that you may not have covered in taught material. You will plan and conduct the project using design work, mathematical modelling, a full experimental investigation and signal/data analysis.

The remaining hours of private study each week are essential to the achievement of the learning outcomes and are guided using both formative and summative coursework tasks set during the academic year. Your private study is also supported by the use of Moodle, City's Online Learning Environment. This provides online access to module content, feedback, guidance on completing coursework, audio-visual resources etc.

Contact hours are made up of: lectures, which direct you towards the most important topics in the field and which allow discussion and clarification of areas of uncertainty with expert staff; tutorials where staff are on hand to help with problem-solving exercises; laboratory and workshop classes where practical situations and methods are encountered; and research or design/build projects, both individually and in groups, where personal skills, teamwork, creativity and critical thinking are developed and where knowledge built up elsewhere in the programme is integrated and developed. Site visits are used to place taught sessions in the context of real-world industries or products.

**WHAT TYPES OF ASSESSMENT AND FEEDBACK CAN I EXPECT?**

**Assessment and Assessment Criteria**

The Programme is subdivided into Programme Stages (years of study) and each Programme Stage into modules (coherent groupings of syllabus topics addressing particular Learning Outcome types). Each module in the programme may have one or more assessment components of differing types. Assessment components may involve more than one assessment task (e.g. they may be an aggregate of different coursework marks or multiple examination papers).

Most modules will have an examination component as well as a coursework (continuous assessment) component. The split between examination and coursework assessment is approximately 50:50 over the programme lifetime. Examinations are used because they provide a controlled environment in which to assess knowledge and understanding and problem-solving skills. The time pressure and lack of prior warning about specific issues to be tackled is representative of real-world situations faced by practicing engineers. Coursework assessments vary from paper assignments (which may be similar to examinations but with longer time scales and with access permitted to information sources) to the assessment of practical skills which cannot be done in the exam hall. For
example communication skills (e.g. presentations, drawings and written reports), personal skills (such as team work or leadership), planning and design (both software and hardware), data analysis, critical review of information and the use of workbench are usually assessed by means of coursework tasks.

Often coursework tasks may be set which are not to be assessed but which are valuable as a learning experience. This is known as formative coursework and is often the key to improving grades on assessed or summative coursework. You will receive feedback from all coursework assessments, both formative and summative, to allow you to learn from mistakes made in the assessment.

Assessment Criteria are descriptions, based on the intended learning outcomes, of the skills, knowledge or attitudes that you need to demonstrate in order to complete an assessment successfully, providing a mechanism by which the quality of an assessment can be measured. Grade-Related Criteria are descriptions of the level of skills, knowledge or attributes that you need to demonstrate in order achieve a certain grade or mark in an assessment, providing a mechanism by which the quality of an assessment can be measured and placed within the overall set of marks. Assessment Criteria and Grade-Related Criteria will be made available to you to support you in completing assessments. These may be provided in programme handbooks, module specifications, on the virtual learning environment or attached to a specific assessment task.

Feedback on assessment

Feedback will be provided in line with our Assessment and Feedback Policy. In particular, you will normally be provided with feedback within three weeks of the submission deadline or assessment date. This may be written (on the hard copies and online) or oral (in class), specific to you or generally applicable, and would normally include a provisional grade or mark. If the coursework submitted is a laboratory report, then your work will not be returned until three weeks after the last report has been submitted. Laboratories are undertaken by groups of you in rotation over periods of many weeks and consequently the last group of you may complete the laboratory and submit the report many weeks after the first group.

For end-of-module examinations or an equivalent significant task (e.g. an end-of-module project), a generic feedback will normally be provided within four weeks of the last day of exam period. The timescale for feedback on final year projects or dissertations may be longer and starts from the date of the final presentation of the project. The full policy can be found at: http://www.city.ac.uk/__data/assets/pdf_file/0008/68921/assessment_and_feedback_policy.pdf

Assessment Regulations

In order to pass your Programme, you should complete successfully or be exempted from the relevant modules and assessments and will therefore acquire the required number of credits. You also need to pass each Programme Stage of your Programme in order to progress to the following Programme Stage.

Your overall aggregate mark will be calculated by combining the aggregate marks from Programme Stages 1, 2, 3 and 4 in the ratio 1:2:3:4.
The pass mark for each module is 40%, except for Level-7 modules where the pass mark is 50%. In some modules there will be a requirement to pass individual components of the module (where the pass mark for these components will also be 40%, or 50% for Level-7 modules). Details of which assessment components need to be passed individually is provided in the Module Specification.

If you fail an assessment component or a module, the following will apply:

1. **Compensation:** where you fail up one sixth of the total credits of a Programme Stage at first or resit attempt, you may be allowed compensation if:
   - Compensation is permitted for the module involved (see the What will I study section of the Programme Specification), and
   - It can be demonstrated that you have satisfied all the Learning Outcomes of the modules in the Programme Stage, and
   - A minimum overall mark of at least 30% has been achieved in the module to be compensated (40% for Level 7 modules), and
   - An aggregate mark of 40% (50%) has been achieved for the Programme Stage.

Where you are eligible for compensation at the first attempt, this will be applied in the first instance rather than offering a resit opportunity.

If you receive a compensated pass in a module you will be awarded the credit for that module. The original component marks will be retained in the record of marks and your original module mark and will be used for the purpose of your Award calculation.

2. **Resit:** Where you are not eligible for compensation at the first attempt, you will normally be offered one resit attempt.

If you are successful in the resit, you will be awarded the credit for that module. The mark for each assessment component that is subject to a resit will be capped at the pass mark for the module. This capped mark will be used in the calculation of the final module mark together with the original marks for the components that you passed at first attempt.

If you do not meet the pass requirements for a module and do not complete your resit by the date specified you will not progress to the next Programme Stage and the Assessment Board will require you to be withdrawn from the Programme.

If you fail to meet the requirements for a particular Programme Stage or the Programme, the Assessment Board will consider whether you are eligible for an Exit Award. As per the table below.

If you fail to obtain a Pass mark for the module you will not be entitled to the degree title Electrical and Electronic Engineering with Placement or Biomedical Engineering with Placement, but you will be able to progress to programme stage 4 of the MEng (Hons) Electrical and Electronic Engineering or MEng (Hons) Biomedical Engineering degree.

If you would like further information about the way in which assessment works at City, please see the full version of the Assessment Regulations at: [http://www.city.ac.uk/about/city-information/governance/constitution/senate-regulations](http://www.city.ac.uk/about/city-information/governance/constitution/senate-regulations)
## WHAT AWARD CAN I GET?

### Integrated Master's Degree with Honours in Electrical and Electronic Engineering

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<th>Programme Stage</th>
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<th>Credits</th>
<th>Weighting (%)</th>
<th>Class</th>
<th>% required</th>
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### Bachelor's Degree with Honours in Electrical and Electronic Engineering

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### Ordinary Degree in Electrical and Electronic Engineering

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### Diploma of Higher Education in Electrical and Electronic Engineering

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### Certificate of Higher Education:

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<th>Class</th>
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With Distinction | 70
With Merit | 60
Without Classification | 40
WHAT WILL I STUDY?

Programme Stage 1

Programme Stage 1 comprises six core Level-4 modules, totalling 120 credits. To pass Programme Stage 1 you must obtain all 120 credits, as specified in the Programme Scheme. All modules, except for Design I, are assessed by a combination of course work distributed throughout the academic year and an end of year exam. The proportion of each component is specified in the description for each module. You must achieve a pass mark for both the coursework and the end-of-year exam for all modules apart from EX1010 Mathematics I, where you must achieve a combined pass mark for the coursework and the end-of-year exam. Design I is assessed by coursework distributed throughout the academic year for which you must achieve a pass mark.

At most one 20-credit module (but not Design I) can be compensated if you achieve a mark of at least 30% in that module and have passed the other five modules.

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<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/ Elective</th>
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<th>Level</th>
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<tr>
<td>Fluid Mechanics &amp; Thermodynamics I</td>
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<td>Solid Mechanics</td>
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Programme Stage 2

Programme Stage 2 comprises six core Level-5 modules, totalling 120 credits. To pass Programme Stage 2 you must obtain all 120 credits, as specified in the Programme Scheme. All modules, except for Design II: Electrical and Electronic / Biomedical, are assessed by a combination of course work distributed throughout the academic year and an end of year exam. The proportion of each component is specified in the description for each module. You must achieve a pass mark for both the coursework and the end-of-year exam for all modules apart from EX2010 Mathematics II, where you must achieve a pass mark for the combination of the coursework and the end-of-year exam. Design II: Electrical and Electronic / Biomedical is assessed by coursework distributed throughout the academic year for which you must achieve a pass mark.

To continue to Programme Stage 3 of the MEng programme, you must have achieved a module average of at least 50% at the end of Programme Stage 2. If you fail to meet the requirement to progress to MEng Programme Stage 3, but pass all modules in Programme Stage 2, then you will be allowed to progress to Programme Stage 3 of the BEng programme in Electrical and Electronic Engineering.

At most one 20-credit module (but not Design II) can be compensated if you achieve a mark of at least 30% in that module and have passed the other five modules.
<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/Elective</th>
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<tr>
<td>Design II: Electrical and Electronic / Biomedical Engineering</td>
<td>EE2600</td>
<td>20</td>
<td>Core</td>
<td>No</td>
<td>5</td>
</tr>
</tbody>
</table>

Programme Stage 3

Programme Stage 3 comprises six core Level-6 modules, totalling 120 credits. To pass Programme Stage 3 you must obtain all 120 credits, as specified in the Programme Scheme.

All modules, except for Design III: Electrical and Electronic Engineering, are assessed by a combination of course work distributed throughout the academic year and an end of year exam. The proportion of each component is specified in the description for each module. You must achieve a pass mark for both the course work and the end-of-year exam for all modules. Design III: Electrical and Electronic Engineering is assessed by coursework distributed throughout the academic year for which you must achieve a pass mark.

To continue to Programme Stage 4 of the MEng programme, you must have achieved a module average of at least 50% at the end of Programme Stage 3.

At most one 20-credit module (but not Design III) can be compensated if you achieve a mark of at least 30% in that module and have passed the other five modules.

If you fail to meet the requirements to progress to MEng programme stage 4 having exhausted all resit opportunities, but have obtained 100 credits excluding Design III: Electrical and Electronic Engineering, you will be offered an opportunity to complete the BEng Project: Electrical and Electronic Engineering in the following academic year for the award of a BEng (Hons) Degree.

If you wish to gain practical experience you have the option of spending a year on paid industrial placement between Programme Stages 3 and 4 (Module ET3014)
Programme Stage 4

Programme Stage 4 comprises four compulsory Level-7 modules, totalling 120 credits. To pass Programme Stage 4 you must obtain 120 credits, as specified in the Programme Scheme.

Each of the 20 credit modules is assessed by a combination of course work distributed throughout the academic year and an end-of-year exam. The proportion of each component is specified in the description for each module. You must accumulate a pass mark for the combination of the course work and end-of-year examination.

The ‘MEng Project: Electrical and Electronic Engineering’ module is an individual project assessed by a combination of in-year progress, your dissertation and your performance in an oral examination.

At most one 20-credit module can be compensated if you achieve a mark of at least 40% in that module and have passed the other three modules.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core/ Elective</th>
<th>Compensation Yes/No</th>
<th>Level</th>
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<tbody>
<tr>
<td>Signal Processing and Communications</td>
<td>EE3602</td>
<td>20</td>
<td>Core</td>
<td>Yes</td>
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<tr>
<td>Systems Modelling and Control</td>
<td>EE3601</td>
<td>20</td>
<td>Core</td>
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<tr>
<td>Power Engineering</td>
<td>EE3603</td>
<td>20</td>
<td>Core</td>
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<tr>
<td>Microelectronic Circuits and Devices</td>
<td>EE3604</td>
<td>20</td>
<td>Core</td>
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<tr>
<td>Engineering Management</td>
<td>EE3606</td>
<td>20</td>
<td>Core</td>
<td>Yes</td>
<td>6</td>
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<tr>
<td>Design III: Electrical and Electronic Engineering</td>
<td>EE3600</td>
<td>20</td>
<td>Core</td>
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<tr>
<td>Advanced Signal Processing and Communications</td>
<td>EEM403</td>
<td>20</td>
<td>Core</td>
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<td>Advanced Systems Modelling and Control</td>
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<td>Core</td>
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<tr>
<td>Computer Systems and Robotics</td>
<td>EEM404</td>
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<td>Core</td>
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<td>Design IV: Electrical and Electronic</td>
<td>EEM410</td>
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<td>Core</td>
<td>No</td>
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<td>MEng Project: Electrical and Electronic Engineering</td>
<td>EEM425</td>
<td>20</td>
<td>Core</td>
<td>No</td>
<td>7</td>
</tr>
</tbody>
</table>
## TO WHAT KIND OF CAREER MIGHT I GO ON?

The knowledge and the skills you will gain by completing this programme will enable you to gain a range of jobs in a number of industries, including the energy, telecommunications, digital media and financial industries. Our graduates have excellent problem-solving, team-working and communication skills which makes them very attractive to modern interdisciplinary engineering companies. Recent graduates have joined employers such as: UK Power Networks, BT, National Grid, AECOM, BP, Huawei, British Aerospace and DeltaRail.

The Centre for Career & Skills Development provides a service to current undergraduates and postgraduates, as well as recent graduates of the University. Their aim is to provide you with advice, information and skills that you need to make a smooth transition into the world of professional engineering. If you would like further information on the careers support available at City, please go to: [http://www.city.ac.uk/careers](http://www.city.ac.uk/careers).

## WHAT STUDY ABROAD OPTIONS ARE AVAILABLE?

At present these options are not available; they are still under development.

## WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

If you wish to take a professional placement between Programme Stages 3 and 4 of your degree, then you will need to register accordingly at the beginning of Programme Stage 3. We strongly encourage you to undertake a 12-month placement or 6-8 week Summer Internship, as you will benefit greatly from the experience; providing you with a distinct advantage when you seek employment upon graduation. MCSE’s Professional Liaison Unit (PLU) collaborates with the University Career and Skills Development Service to deliver a series of Professional Development workshops during Period 1 of Programme Stage 3 to prepare you for searching for and applying for a work placement. The PLU is in regular contact with companies and other organisations concerning the availability of training opportunities and will advise you on making applications.

You are welcome to make your own applications but you will be asked to discuss these with the PLU’s Work Based Learning Advisor. Support is provided in the MCSE Placement & Internships Resource Centre module on Moodle.

If you are on an approved Professional Placement then your experience will be graded on the basis of (i) reports from two visits made by the Visiting Tutor (a member of academic staff) familiar to the subject and (ii) your final report. Informal contact is maintained throughout the 12 months, as necessary. Although your placement is reported on the degree transcript, the grading does not contribute to the final degree result.

Placement guidelines are issued to you and your employer at the commencement of training, and these include a placement health and safety booklet. The guidelines also include a section on workplace learning. Early in the placement year, you are required
to produce a placement plan in conjunction with your Workplace Supervisor and the Visiting Tutor.

### WILL I GET ANY PROFESSIONAL RECOGNITION?

**Accrediting Body:** The Institution of Engineering and Technology

**Nature of Accreditation**

Accreditation of the MEng leads to fulfilment of the educational requirements for registration as a Chartered Engineer (CEng).

**Accrediting Body:** Institute of Measurement and Control

**Nature of Accreditation**

Accreditation of the MEng leads to fulfilment of the educational requirements for registration as a Chartered Engineer (CEng).

When accredited, this degree will fully satisfy the educational base for a Chartered Engineer (CEng).

### HOW DO I ENTER THE PROGRAMME?

The following entrance requirements typically apply.

**UCAS tariff points**

144.

**A-levels**

AAA; including A-Level Mathematics and Physics. You are also required to have passed GCSE English Language at grade 4, or higher.

**IB**

35 points total including Higher Level Mathematics and Physics at grade 6.

**English language requirements**

For overseas candidates, an IELTS score of 6.0 (with a minimum of 5.5 in all components) is required. TOEFL is not accepted as evidence of English language ability for students that require a Confirmation of Acceptance for Studies.

**Entry via Foundation Course**

You will be offered a place on the MEng (Hons) degree in Electrical and Electronic Engineering should you both (i) successfully satisfy the City University London interview panel and (ii) obtain an overall grade of at least 75% on an Electrical and Electronic Engineering Foundation programme at: City and Islington College, INTO City University London International or Kaplan International College.

**RPL/RPEL**

Direct entry into Programme Stage 2 may be considered for candidates who have successfully completed the first year of a similar accredited MEng or
BEng degree.

**Scholarships**
Undergraduate students are considered for a wide range of awards (scholarships, bursaries and prizes) throughout their studies in the School. These (internally and externally funded) awards range from £500-£9000 and they are based on a combination of academic merit and hardship. A number of these awards are also available to international students. Further information can be found at: [http://www.city.ac.uk/study/undergraduate/funding-and-financial-support/scholarships-and-bursaries](http://www.city.ac.uk/study/undergraduate/funding-and-financial-support/scholarships-and-bursaries)