PROGRAMME SPECIFICATION

KEY FACTS

| Programme name          | Engineering with Business  
<table>
<thead>
<tr>
<th></th>
<th>Engineering with Business with Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Award</td>
<td>BEng (Hons)</td>
</tr>
<tr>
<td>School</td>
<td>Mathematics, Computer Science and Engineering</td>
</tr>
<tr>
<td>Department or equivalent</td>
<td>Engineering</td>
</tr>
<tr>
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<td>H10N</td>
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<td>H11N</td>
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<td>Type of study</td>
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<td>Total ECTS</td>
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PROGRAMME SUMMARY

Engineering is central to the well-being and economic development of every nation – especially important for the United Kingdom which with a GDP in excess of £2 trillion is the sixth-largest economy in the world. It is a dynamic field underpinning every aspect of our modern society, from communications and entertainment to finance and healthcare, including construction, manufacturing and transport. Engineering also represents one of the UK’s largest and most important business sectors, with value to the UK economy running to hundreds of billions of pounds annually, employing millions of people in the country doing some of the best paid, ‘high-tech’ jobs and contributing significantly to the tax revenues that support society. The UK national academy in the field, the Royal Academy of Engineering, has recently published data that shows there is a strong positive correlation between engineering strength and economic development, with one percentage point increase in a country’s score on the Academy’s Engineering Index being associated with a 0.85% increase in GDP per capita.

During the degree, engineering knowledge is built-up and nurtured, with specific objectives associated with each component Programme Stages. Development of design skills and teamwork are at the heart of the City, University London engineering degrees throughout the programme.

Programme Stage 1 is primarily common across all of the engineering degrees with some small variation of the Engineering with Business programme where Introduction to Management is taught exclusively for this cohort. 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. Common to most Stage 1 and 2 activity and across all Engineering programmes, you will be offered a core module termed ‘the Engineering in Society’. During Stage 1 this module will introduce the engineering discipline with particular emphasis on some key topics such as sustainability, the environment, healthcare, space, autonomous
vehicles, etc. It will also incorporate 5 credits of personal tutoring and a series of seminars to improve your 'soft skills' (presentations, CV building employability skills, etc.). During the second year, the Engineering in Society module will focus on an introduction to engineering management and the circular economy. It will also incorporate 5 credits of training in employability and to promote multi-skills engineering. This module during the first two stages will be assessed by both the lecturers and the personal tutors. In Stage 3, a further module (called Engineering with Business in Society) is offered, but tailored to engineering with business-related considerations. Particular emphasis will be given to an interdisciplinary approach to engineering, sustainability, and the societal and moral impact of engineering. Further help in building your curriculum and enhancing your employability potential will also be provided. 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 BEng (Hons) Engineering with Business degree or switch to one of 6 other engineering BEng (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 in business and learn about finance and accounting, marketing, project management, and innovation management. You will further study engineering design and given an engineering challenge, approaching a professional level exercise. You will also advance your knowledge of Math II, Data Analysis for Engineers, and Sensor Systems and Instrumentation.

As with other years, a significant proportion of Programme Stage 3 is focused upon an individual project. Your design tasks require you to draw together and apply knowledge gained over a number of subject areas. In Programme Stage 3 you also study specialist topics including Supply Chain Management, Strategy, System Integration, and Energy Policy Regulation. A module on 'Through-life Engineering' illustrates engineering throughout each stage of the lifecycle of an engineered product; from conception, through design, manufacture and operational life, to end-of-life disposal, this being a natural stage in the evolution of a better strategy for product support and maintenance, repair and overhaul. This involves analysis in increasing depth alongside examining a greater breadth of business practices. The Engineering in Society module in Programme Stage 3 focus upon people and organisations, with case studies and invited lectures from industry professionals. At Programme Stages 3 you select one from a range of Level-6 individual research projects.

If you wish to gain practical experience during your degree, then you have the option of spending 12 months on a paid industrial placement. This industrial placement can be taken either between Programme Stages 2 and 3 or split them over two summers between the years of study. 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 across a broad spectrum of engineering today.

The BEng Honours Programme is a three-year full-time degree comprising 360 credits (3600 study hours) structured as three 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. A BEng (Hons) Programme therefore requires a commitment of 40 study hours per week during the academic year.

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 BEng (Hons) in Engineering with Business or (ii) decide to switch onto one of 6 other BEng (Hons) engineering degrees (Switching would require trailing one module from stage 1 into stage 2) 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 BEng (Hons) in Engineering with Business or (ii) leave the University with a Diploma of Higher Education in Engineering with Business. At the end of Programme Stage 2, you also have the opportunity for you to move to Programme Stage 3 of the MEng (Hons) degree in Engineering with Business if you have achieved an overall aggregate mark of at least 50% at the end of Programme Stage 2.

BEng (Hons) Degree
Upon successful completion of Programme Stage 3 (having gained all of the necessary credits) 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.

Aims
The overall aim of the BEng (Hons) in Engineering with Business is to provide an excellent education in engineering with specialised training for a professional career in Engineering management or entrepreneurship. This will include the research, development, design, production, commissioning, operation and management aspects across a wide variety of industries. Students will be trained in the design and architecture, as well as the analysis and management of such systems, implementing systems principles and concepts. In addition, students are expected to exercise leadership in project management and initiate independent research and critical analysis into specialized and advanced fields in engineering. 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 comprehensive understanding to solve a range of complex technical problems in engineering, scientific research, design environments and professional practice,

• are able to apply and integrate knowledge and understanding of other engineering disciplines to support their studies and research in engineering,

• are logical, creative, numerate, have a natural curiosity about the scientific world and are able to problem-seek as well as problem-solve,

• demonstrate an attention thoroughly to detail of current problems of their academic discipline, without losing sight of the overall picture,

• have a sound knowledge and understanding of business and management to participate effectively in teamwork and large commercial organisations,

• are aware of their professional practices and ethical responsibilities, the global and societal impact of engineering solutions, as well as the economic and political issues,

• are able to communicate effectively with full technical details 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 to advance their knowledge and understanding, and to develop new skills in engineering with minimum supervision.

WHAT WILL I BE EXPECTED TO ACHIEVE?

This programme has been developed in accordance with the QAA Subject Benchmark for Engineering. Learning outcomes which must be delivered by BEng Programmes, accredited by Professional Engineering Institutions as meeting the educational requirements for registration as a Chartered Engineer, are defined in general terms in the 4th edition of the Accreditation of Higher Education Programmes, published at www.engc.org.uk. The module learning outcomes listed below are accordingly all cross-referenced to these mandated AHEP4 learning outcomes.

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

**Knowledge and understanding:**

• Explain and develop the scientific principles upon which engineering systems is based, including those which underpin current technological advances in the sector (C1).

• Analyse and solve different engineering problems using comprehensive knowledge and understanding of a range of mathematical and computational models (C2).

• Demonstrate ability to apply engineering techniques to engineering concept, design, build and test processes, including customer requirements, dependencies, assumptions, constraints, uncertainties and creative solutions to problems; also, with recent or planned developments in practice (C5, C6, C7, C9, C12, C13).

• Apply practical experience of the concept of fitness for purpose and the separate
consideration of innovative product design for production, operation, maintenance and disposal of an engineering system to meet future needs (C5, C6, C7, C12).

- Apply practical experience of the multi-disciplinary character of engineering and making sound and clear decisions based upon social, environmental/sustainable development, ethical, legal, economic and commercial considerations (C7, C8, C15).

- Conform with current technological and manufacturing/operational practice in the business that is the engineering industry and with future trends in relevant areas in both engineering itself and the business context(C4, C7, C13).

- Implement fully the concepts from outside engineering which nonetheless drive engineering practice and business development (C5, C13).

- Apply fully the broad range of management tools and techniques required to create and run an engineering business (C9, C10, C14, C15).

- Apply extended knowledge and understanding of the type described above, specific to the engineering industry today, including the principles and practice of energy/transport/structure and to engineering product design, manufacture, operation and maintenance and extensive awareness of developments in the field (C5, C6, C12, C13).

- Assess and predict the engineering industry as a business enterprise in national and international economies (C5).

**Skills:**

- Tackle confidently unfamiliar problems from today’s engineering business (C18).

- Gather, integrate and evaluate information from various sources including the technical and business literature (C4).

- Break down a problem into a series of engineering tasks to be solved under a set of multi-disciplinary constraints (C5).

- Communicate effectively in technical and non-technical languages, written, oral and graphical forms to individuals and large audiences (C17).

- Be proficient in IT and communications systems (C17).

- Use laboratory equipment for data measurement, processing, interpreting and analysis (C3, C13).

- Use workshop equipment to produce or modify an engineering component (C12).

- Be proficient with analytical, computational and experimental techniques (including assessing the limitations of the results obtained), coupled with experience and decision-making, to solve problems that come from the engineering business (C2, C3).

- Apply initiative, creativity and innovation to design, construct and test a system, component or process to meet both engineering and business specifications (C5).

- Evaluate designs, processes or products and make improvements, taking into consideration associated commercial risks, societal and environmental impact (C7, C9, C10).

- Work with both technical and business uncertainty (C13).

- Work with levels of detail appropriate to the criticality of the task (C5).
• Plan for and manage time/cost/quality of an engineering project and, where necessary, use theory or experimental research to mitigate deficiencies, including adjusting plans to changing circumstances and controlling such adjustments (C7, C9, C10).
• Exercise leadership in both an engineering and a business context (C14, C15).
• Be proficient in the application of analytical and computational techniques specifically to the analysis and design of different engineering products or services (C3).

Values and attitudes:
• Put the needs of the team ahead of one’s own needs (C16).
• Willingly take on the professional and ethical responsibilities of engineers in society (C8); commit to continuous improvement to enhance professional skills and benefit society (C18) and willingly take the lead in difficult situations in both the engineering and business contexts (C16).
• Value the impact of engineering to society and to the global economy (C7) while understanding and tackling the need for the engineering industry to contribute in a sustainable way (C7).
• Recognise that there is only one type of engineer, a person that tackles and solves problems, independently of gender, religion or race.
• Become aware of the social and moral importance of equality and diversity, and of promoting inclusion (C11).

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 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. Also, Programme Stage 3 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 have the opportunity to apply your knowledge and understanding to the solution of engineering and business problems, in topics related to all aspects of engineering with business considerations.

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
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?**

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). Modules that contain multiple assessment components (either coursework or exam) for which individual minimum pass marks are required are specified in the relevant module specifications.

Some modules will have an examination component in addition to a coursework (continuous assessment) component. Many skills need to be honed by practice: to this end formative assessments, may be organised within each module with appropriate and timely feedback mechanisms.

Examinations are used because they provide a means 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 teamwork or leadership), planning and design (both software and hardware), data analysis, critical review of information and the use of workbench and CAE tools 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 enable you to develop and enhance your assessment performance.

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 to 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:
https://www.city.ac.uk/__data/assets/pdf_file/0009/452565/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 preceding 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 and 3 in the ratio 1:3:6.

The pass mark for each module is 40%. 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%). 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, if you fail up to a total of one sixth of the total credits 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 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, and
• an aggregate mark of at least 40% has been achieved for the Programme Stage under consideration.

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 then you will be awarded the full 15 credits for that module. The original component marks will be retained in the record of marks and your original module mark will be used for the purpose of your Award calculation.

Note that the total amount of compensated credits cannot exceed 30 during your whole study degree

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

If you are successful in the resit, you will be awarded the full 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 tables shown below.

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: https://www.city.ac.uk/__data/assets/pdf_file/0007/453652/s19.pdf

WHAT AWARD CAN I GET?

Bachelor’s Degree with Honours in Engineering with Business:

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<th>Programme Stage</th>
<th>HE Level</th>
<th>Credits</th>
<th>Weighting (%)</th>
<th>Class</th>
<th>% required</th>
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<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>120</td>
<td>10</td>
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<td>70</td>
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<td>5</td>
<td>120</td>
<td>30</td>
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Ordinary Degree in Engineering with Business:

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<tr>
<td>1</td>
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<td>120</td>
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<td>With Distinction</td>
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<tr>
<td>2</td>
<td>5</td>
<td>120</td>
<td>30</td>
<td>With Merit</td>
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<tr>
<td>3</td>
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<td>60</td>
<td>Without classification</td>
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Diploma of Higher Education in Engineering with Business:

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<th>Credits</th>
<th>Weighting (%)</th>
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</thead>
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<tr>
<td>1</td>
<td>4</td>
<td>120</td>
<td>25</td>
<td>With Distinction</td>
<td>70</td>
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<tr>
<td>2</td>
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<td>75</td>
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Certificate of Higher Education in Engineering:

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<th>Weighting (%)</th>
<th>Class</th>
<th>% required</th>
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<tr>
<td>1</td>
<td>4</td>
<td>120</td>
<td>100</td>
<td>With Distinction</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>With Merit</td>
<td>60</td>
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WHAT WILL I STUDY?

Programme Stage 1

Programme Stage 1 comprises eight core Level-4 modules, totalling 120 credits. To pass Stage 1 you must obtain all 120 credits, as specified in the Programme Scheme.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core or Elective</th>
<th>Can module be compensated</th>
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<tbody>
<tr>
<td>The Engineering in Society - Social responsibility</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Engineering Design 1</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Principles of interdisciplinary thinking in engineering and business</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Electronics - including circuits, digital and analogue electronics</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Introductory Mathematics &amp; Programming</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>
Programme Stage 2
Programme Stage 2 comprises eight core Level-5 modules, totalling 120 credits. To pass Programme Stage 2 you must obtain all 120 credits, as specified in the Programme Scheme.

If you wish to gain practical experience you have the option of spending a year on paid industrial placement between Programme Stages 2 and 3. You also have the option to split the placement over two periods in the summer between the years of study.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core or Elective</th>
<th>Can module be compensated</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Science</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Mathematics - I</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Introduction to Thermodynamics and Fluid Mechanics</td>
<td>15</td>
<td>Core</td>
<td>No</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

Upon obtaining all 120 credits, you may progress to Programme Stage 3 of the BEng Programme or request to be transferred to Programme Stage 3 of the MEng programme. To do so, you must have achieved a module average of at least 50% at the end of Programme Stage 2.

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

A student who has successfully completed Programme Stage 3 of a BEng programme may, with the approval of the Assessment Board, transfer to Programme Stage 4 of the
related MEng programme provided that they have obtained an overall aggregate mark of at least 50% at Programme Stage 3.

<table>
<thead>
<tr>
<th>Module Title</th>
<th>SITS Code</th>
<th>Module Credits</th>
<th>Core or Elective</th>
<th>Can module be compensate</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual project</td>
<td></td>
<td>30</td>
<td>Core</td>
<td>No</td>
<td>6</td>
</tr>
<tr>
<td>The Engineer in society: Ethical business</td>
<td></td>
<td>15</td>
<td>Core</td>
<td>Yes</td>
<td>6</td>
</tr>
<tr>
<td>Supply Chain Management</td>
<td></td>
<td>15</td>
<td>Core</td>
<td>Yes</td>
<td>6</td>
</tr>
<tr>
<td>Strategy in Engineering and Technology Firms</td>
<td></td>
<td>15</td>
<td>Core</td>
<td>Yes</td>
<td>6</td>
</tr>
<tr>
<td>System Integration</td>
<td></td>
<td>15</td>
<td>Core</td>
<td>Yes</td>
<td>6</td>
</tr>
<tr>
<td>Through Life Engineering</td>
<td></td>
<td>15</td>
<td>Core</td>
<td>Yes</td>
<td>6</td>
</tr>
<tr>
<td>Energy Policy, regulations</td>
<td></td>
<td>15</td>
<td>Core</td>
<td>Yes</td>
<td>6</td>
</tr>
</tbody>
</table>

**TO WHAT KIND OF CAREER MIGHT I GO ON?**

Future business leaders will have more need for technical knowledge and analytical skills in an increasingly data-driven and technology-driven business world. At the same time, future engineers will need awareness of business practices and how technology meets societal needs. Engineering with Business recognizes that synergy of innovation in engineering with success in business and so has been carefully designed to train students to take their place in the dynamic technology-driven business world.

This course has been designed to enable its graduates to be successful through understanding the world’s engineering capabilities and future demands and allowing them to pursue a satisfying and rewarding career in industry and business, working in environments where they can take full advantage of the synergies between the disciplines in multidisciplinary organizations where both engineering and business thinking is essential. Students will be prepared to become technological and business innovators with careers in the technology industry starting their own ventures or assuming management positions in companies.

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.

**WHAT STUDY ABROAD OPTIONS ARE AVAILABLE?**
WHAT PLACEMENT OPPORTUNITIES ARE AVAILABLE?

If you wish to take a professional placement between Programme Stages 2 and 3 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. SMCSE’s Professional Liaison Unit (PLU) collaborates with the University Career and Skills Development Service to deliver a series of Professional Development workshops 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 SMCSE 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(s): Institution of Engineering and Technology (IET), Institute of Measurement & Control (InstMC)

Nature of Accreditation
Our current Electrical Engineering degrees are accredited by the above institutions, providing a path for students on those programmes to gain Chartered Engineering status. This programme has been designed to satisfy the above institutions’
accreditation criteria and an application for accreditation will be made in due course. We have every expectation that these degrees will similarly receive full accreditation.

**HOW DO I ENTER THE PROGRAMME?**

The following entrance requirements typically apply.

**UCAS tariff points**

120.

**A-levels**

BBB; including A-Level in either mathematics or physics or other two sciences and a GCSE science. You are also required to have passed GCSE English Language at grade 4, or higher.

**IB**

30 points with 'Higher-Level Mathematics/Physics/Biology/Chemistry at grade 5'.

**BTEC**

BTEC (Level 3 Nationals only).

D*DD in Engineering (RQF) (First teaching Sept 2016). Candidates must also have a minimum of grade 6 in GCSE Mathematics and Science/Physics.

**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 BEng (Hons) degree in Engineering with Business should you both (i) successfully satisfy the City, University of London interview panel and (ii) obtain an overall grade of at least 65% on the Biomedical 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

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