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| Course Aim and Title   | BSc (Hons) Construction Management   |
| Intermediate Awards Available  | BSc, DipHe, CertHe   |
| Teaching Institution(s)  | UEL on campus  |
| Alternative Teaching Institutions (for local arrangements see final section of this specification) | None   |
| UEL Academic School  | ACE  |
| UCAS Code  | K221   |
| Professional Body Accreditation  | The Chartered Institute of Building (CIOB)<br><br>The Chartered Association of Building Engineers (CABE) |
| Relevant QAA Benchmark Statements  | Construction, Property and Surveying   |
| Additional Versions of this Course   | None   |
| Date Specification Last Updated  | 04 <sup>th</sup> August 2023   |

## Course Aims and Learning Outcomes

This course is designed to give you the opportunity to:

- Understand the management of construction projects from conception to realisation and their operational use; including human and financial resources; digital collaboration tools and organisational processes;
- Understand the linkages between design and construction including the work involved in building construction, civil engineering and building services, particularly with regard to sustainable performance, use of energy and the recycling of buildings/fixed assets;
- Recognise and apply construction legislation: which will include building control; statutory planning; health and safety; project procurement; contract law and dispute resolution; employment legislation; environmental legislation and equal opportunities;
- Understand economic theory within the built environment, including resource allocation models; valuation methods; financial management; planning; construction industry economics; and business management.

### Knowledge

- Understand the appropriate stakeholders involved in construction, property and surveying, and their relevant power and interest;

- Understand the context in which construction management operates, including the legal; business; social; economic; health and safety; cultural; technological; physical; environmental; and global influences;
- Have an appreciation of the linkages and interdisciplinary relationships between professionals working and operating in the built and natural environments;
- Describe the key concepts, theories and principles used in construction management; Including measurement; physical and financial appraisal of buildings; legal principles; applied economics; design factors affecting construction and buildability; the performance of buildings; resource management; document & data handling, and the application of business management theories.

### Thinking skills

- Explore the contemporary issues facing the profession and driving change within it, for example, the sustainability/environmental agenda and the shift from transactional to consultancy-based businesses;
- Appreciate the professional ethics, their impact on the operation of the Professions and their influence on the society; conflict avoidance/dispute
- Apply the regulatory systems within which construction and surveying operate, such as the planning, building control and environmental management systems and their implications for development;
- Evaluate and plan construction activities and undertake the process used to manage and control them. Subject-Based Practical skills
- Use appropriate generic and bespoke software that supports construction, property and surveying functions such as data handling Building Information Management (BIM) systems, project planning software and estimating software that enable collaborative working;
- Undertake estimating, billing and taking off for routine and complex projects;
- Demonstrate the ability to question standard practice, and to apply professional judgement in making recommendations and solving problems for future best practice, including the ability to demonstrate understanding of the significance of professional ethics and accountability;
- Demonstrate the ability to work effectively with others within the context of a multidisciplinary team; respecting inputs from fellow professionals, client(s), and other stakeholders and reflecting on one's own performance and role within the team;
- Undertake measurement and evaluation: both quantitatively and qualitatively of built assets within the procurement process.

### Skills for life and work (general skills)

- Demonstrate the capacity for critical evaluation of arguments with evidence and the application of it to building, construction management and real estate contexts;
- Demonstrate the ability to locate, extract and analyse data from multiple sources, including drawn information;

- Demonstrate the ability to present quantitative and qualitative information, together with analysis, argument and commentary, in a form appropriate to the intended audience, including appropriate acknowledgement and referencing of sources;
- Demonstrate the ability to produce professional reports in accordance with published conventions and/or client expectations, including executive summaries;
- Demonstrate wider research skills to aid in the development of a cumulative element of original work.

### **Assessment**

Knowledge is assessed by

- Coursework
- Reports
- Examinations
- Individual oral presentations

Thinking skills are assessed by

- Coursework
- Time controlled assessments
- Individual oral presentations

Practical skills are assessed by

- Practical reports
- Portfolio completion
- Timed controlled assessments

Skills for life and work (general skills) are assessed by

- Project work
- Group work
- Coursework

Students with disabilities and/or particular learning needs should discuss assessments with the Course Leader to ensure they are able to fully engage with all assessment within the course.

### **Work or Study Placements**

There is an optional placement year between levels 5&6 of the course. For students wanting to go on a placement year, UEL will provide support in obtaining a placement but cannot guarantee a placement for every applicant.

### **Course Structure**

All courses are credit-rated to help you to understand the amount and level of study that is needed.

One credit is equal to 10 hours of directed study time (this includes everything you do e.g. lecture, seminar and private study).

Credits are assigned to one of 5 levels:

- 3 Equivalent in standard to GCE 'A' level and is intended to prepare students for year one of an undergraduate degree course.
- 4 Equivalent in standard to the first year of a full-time undergraduate degree course.
- 5 Equivalent in standard to the second year of a full-time undergraduate degree course.
- 6 Equivalent in standard to the third year of a full-time undergraduate degree course.

Courses are made up of modules that are each credit weighted.

**The module structure of this course:**

| <b>Level</b> | <b>Module Code</b> | <b>Module Title</b>                    | <b>Credit Weighting</b> | <b>Core/Option</b> | <b>Available by Distance Learning?<br/>Y/N</b> |
|--------------|--------------------|--|-------------------------|--------------------|--|
| 4            | EG4019             | Mental Wealth;<br>Professional Life 1  | 20                      | Core               | N  |
| 4            | EG4012             | The Built Environment                  | 20                      | Core               | N  |
| 4            | EG4013             | Construction Technology                | 20                      | Core               | N  |
| 4            | EG4018             | Land and Construction Surveying        | 20                      | Core               | N  |
| 4            | EG4010             | Analytical skills in built environment | 20                      | Core               | N  |
| 4            | EG4021             | Building Science and Materials         | 20                      | Core               | N  |
| 5            | EG5010             | Mental Wealth;<br>Professional Life 2  | 20                      | Core               | N  |
| 5            | EG5035             | Contract Procedures                    | 20                      | Core               | N  |

|   |         |   |      |          |   |
|---|---------|---|------|----------|---|
| 5 | EG5012  | Construction planning and production            | 20   | Core     | N |
| 5 | EG5036  | Introduction to Building Measurement            | 20   | Core     | N |
| 5 | EG5014  | Advanced Sustainable Technology                 | 20   | Core     | N |
| 5 | EG5015  | Tendering, Estimating, and cost control         | 20   | Core     | N |
|   | EG5023  | Placement Year                                  | 120P | Optional | N |
| 6 | EG6010  | Mental Wealth; Professional Life 3              | 20   | Core     | N |
| 6 | EG6011. | Capstone Project                                | 40   | Core     | N |
| 6 | EG6012  | Project management                              | 20   | Core     | N |
| 6 | EG6014  | Advanced Construction Technology and Innovation | 20   | Core     | N |
| 6 | EG6017  | Quantity Surveying Practice                     | 20   | Core     | N |

*Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, in order to create the best learning experience.*

Additional detail about the course module structure:

1. The course has been developed in line with the Academic Framework Modular Regulations.
2. The academic year is organised into two terms: Term 1 (from September to January), Term 2 (from February to May)
3. Delivery will be by formal lectures supplemented by tutorials, coursework and project assignments, seminars, workshops, laboratory exercises, practical sessions and site visits where appropriate.

A core module for a course is a module which a student must have passed (i.e. been awarded credit) in order to achieve the relevant named award. An optional module for a course is a module selected from a range of modules available on the course.

The overall credit-rating of this course is 360 credits. If for some reason you are unable to achieve this credit you may be entitled to an intermediate award, the level of the award will depend on the amount of credit you have accumulated. You can read the University Student Policies and Regulations on the UEL website.

## Course Specific Regulations

None

## Typical Duration

It is possible to move from full-time to part-time study and vice-versa to accommodate any external factors such as financial constraints or domestic commitments. Many of our students make use of this flexibility and this may impact on the overall duration of their study period.

The expected duration of this course is 3 years full-time or 5 years part-time.

A student cannot normally continue study on a course after 4 years of study in full time mode unless exceptional circumstances apply and extenuation has been granted. The limit for completion of a course in part time mode is 7 years from first enrolment.

## Further Information

More information about this course is available from:

- The UEL web site ([www.uel.ac.uk](http://www.uel.ac.uk))
- The course handbook
- Module study guides

- UEL Manual of General Regulations (available on the UEL website)
- UEL Quality Manual (available on the UEL website)
- School web pages

All UEL courses are subject to thorough course approval procedures before we allow them to commence. We also constantly monitor, review and enhance our courses by listening to student and employer views and the views of external examiners and advisors.

### **Additional Costs**

There are two field trips during the course, one compulsory and one optional. Each of these cost between £300-£450 per student.

Besides the normal costs of stationery, there are also costs involved in the purchase of specialist construction PPE, drawing equipment and transport costs to two/ three day trips to exhibitions and trade fairs. These costs will be in the region of £150 for the course.