



UNIVERSITY COLLEGE
OF ESTATE MANAGEMENT

BSc (Hons) Construction Management

Programme Specification

Academic year September 2016 to August 2017

Reference:

Version: 8.00

Status: Final

Author: Graham Hough

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Summary Programme Details

In Autumn 2020 a new, updated curriculum will begin. To prepare you to succeed with this new curriculum, we have made some changes to the modules and the order of modules that you take. These changes depend on when you started your studies with us. Due to these changes, the structure and module information below is out of date. For up to date information, please view the relevant Module Information Sheet [on your programme page of the VLE](#). You will still meet the same programme learning outcomes as outlined in this specification.

| Final Award | |
|---------------------------------------|--|
| Award: | BSc (Hons) |
| Title of (final) Programme | Construction Management |
| Credit points: | 360 |
| Level of award (QAA FHEQ): | 6 |
| Intermediate award(s) | |
| Intermediate award 1: | Diploma of Higher Education |
| Credit points: | 240 |
| Level of award (QAA FHEQ): | 5 |
| Intermediate award 2: | Certificate of Higher Education |
| Credit points: | 120 |
| Level of award (QAA FHEQ): | 4 |
| Validation | |
| Validating institution: | University College of Estate Management (UCEM) |
| Faculty | Construction |
| Date of last validation: | March 2013 |
| Date of next periodic review: | March 2018 |
| Professional accreditation | |
| Accrediting body: | The Chartered Institute of Building (CIOB) |
| Date of last programme accreditation: | October 2014 |
| Date of next periodic review: | October 2019 |
| Accrediting body: | Chartered Association of Building Engineers (CABE) |
| Date of last accreditation: | August 2015 |
| Date of next periodic review: | August 2020 |
| Accrediting body: | Royal Institution of Chartered Surveyors (RICS) |
| Date of last programme accreditation: | July 2016 |
| Date of next periodic review: | At next partnership meeting, due Academic Year 2016/17 |
| Accrediting body: | Hong Kong Institute of Construction Managers |
| Date of last programme accreditation: | April 2016 |

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| | |
|--|---|
| Date of next periodic review: | April 2021 |
| Miscellaneous | |
| QAA benchmark statement | Construction, property and surveying QAA (2008) |
| Date of commencement of first delivery | September 2013 |
| Duration | 4 years (standard route) or 3 years (accelerated route). 4 years if taken as part of an apprenticeship programme. |
| Maximum period of registration | 12 years |
| UCAS Code | K220 |
| Programme Code | UBSCCMS/UBSCCMF |
| Other coding as required | N/A |

Programme Overview

Rationale

This programme provides students with a rigorous understanding of the principles, practices and ethics involved in construction management in a worldwide context up to Bachelor's degree standard.

The programme provides the academic underpinning necessary to prepare students for a career as a chartered builder or in other related professions and provides students with the opportunity to develop their knowledge and skills.

The programme is primarily designed for people employed in the construction industry, such as those working in large contracting organisations and commercial developers; and local authority or armed forces personnel. Such employment is not mandatory, but is desirable.

- Work as a construction site manager, site engineer, contracts surveyor, estimator, buyer or planner.
- Satisfy the academic requirements for Chartered Membership of the CIOB.
- Satisfy the academic requirement for Chartered Membership of RICS Project Management pathway (note Commercial Management in Construction MAN6CMC module is compulsory)
- Study the leading degree programme in this subject area that allows the student to combine work and study through supported online learning

A project module is compulsory for all students, with the difference that only Apprenticeship Scheme students study the Work Based Learning Project module (PRJ6WBL), and only non-apprenticeship students study the Undergraduate Project module (PRJ6PRO).

Apprenticeship students study the majority of the BSc programme modules, alongside all other students. The difference between 'regular' BSc students and Apprenticeship students, is that Apprenticeship students only study the Work Based Learning Project module, and that the 'regular' BSc students only study the Project module.

The Work Based Learning Project is a 40 credit module and runs in years 3 and 4. It enables the existing BSc programme to comply with the degree apprenticeship criteria of

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4 years to completion. A dedicated tutor will be assigned to provide support for the Work Based Learning Project module.

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Entry requirements

Entrants to this programme normally are required to have obtained:

- 230 UCAS tariff points or an equivalent level of attainment through recognised qualifications not included in the UCAS tariff.
- Grade C or above in English and Mathematics at GCSE or equivalent recognised qualifications.
- International Students English Language Requirements:

All UCEM programmes are taught and assessed in English. The student will therefore be required to demonstrate adequate proficiency in the language before being admitted to a course:

- Grade C or above in English (Language or Literature) at GCSE or its equivalent.
- Grade 6.0 or above, with at least 5.5 in the reading and writing modules, in the International English Language Testing System (IELTS) academic test administered by the British Council.
- 79 or above in the Internet option, 213 or above in the computer-based option or 550 or above in the paper-based option, of the Teaching of English as a Foreign Language (TOEFL) test.
- Grade C or above in Use of English at A/S Level.

Recognised qualifications having an equivalent level of attainment as those recognised by UCAS include: HND/HNCs, professional qualifications from recognised institutions, certain armed forces qualifications and partially completed degrees.

There are also a wide range of international qualifications that are deemed to have UCAS point equivalent values.

Mature student entry is available on this programme for those with sufficient experience within the construction industry at an appropriate level.

Applications are assessed in accordance with the UCEM Code of Practice Admissions and Recognition of Prior Learning.

Students may apply to enter the Programme in either semester.

Recognition of prior learning (RPL) or recognition of prior experiential learning (RPEL) routes into the Programme

UCEM policy and procedures for Recognition of Prior Experiential Learning (RPEL) and Recognition of Prior Certificated Learning (RPCL) are set out in the UCEM Code of Practice: Admissions and Recognition of Prior Learning. This policy statement takes precedence in any such decision.

RPEL may be used for admission onto an undergraduate programme in accordance with the entry requirements stated in the section above.

UCEM also recognises credit awarded by higher education degree awarding bodies in accordance with the relevant higher education qualifications framework and allows that credit to count towards module exemption from an undergraduate programme.

Normally the maximum credit for prior learning that can be counted towards a programme is 66% (two thirds). RPEL and RPCL do not enable the transfer of credit/exemption from classification modules.

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Programme progression

Successful completion of the BSc may enable the student to progress onto one of our MSc programmes.

Award Regulations

For details of the award, please view the [Undergraduate Programme Assessment, Progression and Award Regulations](#) and the [Academic and General Regulations for Students](#).

Career prospects

- Management of the development conservation and improvement of the built environment.
- Managing construction projects, site engineering, measuring and evaluating.
- Estimating the overall cost of carrying out building projects and buying materials according to programme.
- Planning pre-contract so work is carried out in the most efficient and economical way.

Programme Aims

Programme aims

The UCEM BSc (Hons) in Construction Management provides students with a rigorous understanding of the principles, practices and ethics in a worldwide context involved in construction management up to first degree level standard. The programme reflects the academic underpinning necessary to prepare students for a career as a Chartered Builder, or other related international professional bodies and provides students with a progressive development of knowledge and skills over three stages of study.

The programme is designed to ensure that graduates have a stimulating and challenging education, which prepares them well for their professional career and to produce capable individuals with the potential to progress to professional status and prepare for advancement to Masters level qualification. Students will develop a broad range of skills which are transferable across other industries.

Emphasis is placed on the management of health and safety throughout the construction cycle, and also upon sustainability; economic, social and environmental.

Market and internationalisation

This programme is aimed at a UK and broad international audience; however, it has as its basis UK law and regulatory controls. The programme aims to utilise international case studies to further understanding and where possible, international construction and surveying is considered along with international codes and conventions.

Learning Outcomes

Having successfully completed the programme, the student will have met the following learning outcomes.

| | Level 6 | Relevant modules |
|---------------------------------|---|--------------------|
| A – Knowledge and understanding | <p>A1. Scientific principles in the context of the built environment and their relevance to building design and performance.</p> <p>A2. The legal system in application to the construction process in terms of contract performance, obligations, tort and statutory requirements.</p> <p>A3. The economic principles of the construction industry, their application and significance to the sector and the principles of management, business operation and commercial risk.</p> <p>A4. The properties of building materials and their performance characteristics with regard to the natural environment and their impact upon it.</p> <p>A5. Evaluate the characteristics of various construction techniques and their effect on building.</p> <p>A6. The application of project management skills to construction projects.</p> <p>A7. Project and site management skills through team work and continuous improvement.</p> <p>A8. The promotion of safe working and ethical practices and the setting of standards.</p> <p>A9. Research methods and their relative strengths and weaknesses.</p> | See Curriculum Map |
| B – Intellectual skills | <p>B1. Develop and use communication skills.</p> <p>B2. Research and use textual source information.</p> <p>B3. Integrate theory and practice.</p> <p>B4. Select and apply appropriate quantitative techniques of analysis and appraisal.</p> <p>B5. Write clearly and concisely.</p> <p>B6. Define, solve and advise on problems.</p> <p>B7. Research, collect and synthesise information from a variety of sources.</p> <p>B8. Think logically and critically.</p> | |

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| | | |
|-------------------------------|--|--|
| C – Subject practical skills | <p>C1. Process, use and present analytical information. Including the use of the necessary range of numerical methods for calculating, checking, presenting and communicating solutions to problems.</p> <p>C2. Research skills including the definition, investigation and analysis of problems.</p> <p>C3. Use quantitative techniques.</p> <p>C4. Assess and analyse techniques of team building.</p> <p>C5. Write report standard English.</p> <p>C6. Successfully apply critical skills and technical expertise when managing in uncertain situations.</p> <p>C7. Investigate and communicate appropriately, using the Harvard referencing system.</p> <p>C8. Assess the validity and rigour of a range of published research and assess its relevance to further research.</p> | |
| D – Key / Transferable skills | <p>D1. Develop the capacity to analyse and articulate the construction management issues in the industry.</p> <p>D2. Source material and knowledge from a variety of fields and effectively judge what can be integrated and applied.</p> <p>D3. Be confident in applying learning experience to practical construction management situations.</p> <p>D4. Assess what knowledge is transferable from other contexts into the construction management approaches within this working context.</p> <p>D5. Attain and apply research skills.</p> <p>D6. Explain and critically evaluate research aims, objectives and methodologies.</p> <p>D7. Demonstrate the ability to identify, use, interrogate and critically evaluate available sources of information.</p> | |

Curriculum Map

This table indicates which study units assume responsibility for delivering (X) and summatively assessing (A) particular programme learning outcomes. In Autumn 2020 a new, updated curriculum will begin. To prepare you to succeed with this new curriculum, we have made some changes to the modules and the order of modules that you take. These changes depend on when you started your studies with us. Due to these changes, the structure and module information below is out of date. For up to date information, please view the relevant Module Information Sheet [on your programme page of the VLE](#). You will still meet the same programme learning outcomes as outlined in this specification.

| Level | STUDY MODULE/UNIT | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | D1 | D2 | D3 | D4 | D5 | D6 |
|-------|--|--------|--------|--------|--------|--------|--------|----|----|----|--------|--------|--------|--------|--------|--------|----|----|--------|----|----|----|--------|----|----|----|----|----|--------|----|----|----|
| 1 | Economics | | | X A | | | | | | | | | X A | X A | | | | | | | | | | | | | | | | | | |
| | Building, Environment Technology and Simple Construction | X A | | | X A | X A | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | People and Organisational Management | | | | | | X A | | | | X A | | X A | | X A | | | | | | | | | | | | | | | | | |
| | Legal Studies | | X A | | | | | | | | | X A | | | X A | | | | | | | | X A | | | | | | | | | |
| 2 | Economics of Property and Construction | | | X A | | | | | | | | X A | | X A | X A | | | | | | | | X A | | | | | | | | | |
| | Building, Environment Technology and Framed Structures | X A | | | X A | X A | | | | | X A | | | | | | | | | | | | | | | | | | X A | | | |
| | Financial and Resource Management | | | X A | | | X A | | | | | | | | X A | | | | | | | | | | | | | | | | | |
| | Measurement and Quantification of Construction Work | | | X A | | | | | | | | X A | X A | X A | | X A | | | X A | | | | | | | | | | | | | |

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| Level | STUDY MODULE/UNIT | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | D1 | D2 | D3 | D4 | D5 | D6 |
|-------|------------------------------|--------|--------|----|--------|--------|--------|--------|--------|----|--------|----|--------|--------|--------|--------|----|----|--------|----|--------|--------|--------|--------|----|----|--------|----|--------|----|----|----|
| 3 | Building Structures | X A | X A | | X A | X A | | | X A | | X A | | X A | X A | X A | X A | | | X A | | | | X A | X A | | | X A | | | | | |
| | Construction Site Management | X A | | | | X A | X A | X A | | | | | X A | | | X A | | | X A | | X A | X A | | X A | | | X A | | X A | | | |

| Level | STUDY MODULE/UNIT | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | D1 | D2 | D3 | D4 | D5 | D6 |
|-------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|
| | Building, EnvironmentTechnology and Complex Projects | X A | | | X A | X A | | | | | X A | | | | | | | | | | | | | | | | | | X A | | | |
| | Contract Procedures | | X A | | | | | | | | | | | X A | X A | X A | | | | | | | | | | | | | | | | |
| 4 | Integrated Management Project | A | | | | | X A | A | A | | X A | X A | | X A | | X A | A | A | X A | X A | A | X A | | | A | | X A | X A | | | | |
| | Construction Project Management | | | | | | X A | | X A | | | X A | A | | X A | | | X A | | | X A | | | X A | | | | | | | | |
| | Project* (the knowledge and understanding assessed are dependent upon individual projects) | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | | | | | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | | |
| | Work Based Learning Project** (the knowledge and understanding assessed are dependent upon individual projects) | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | | | | | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | X A | | |
| | ELECTIVES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Maintenance Management | | | | | | | | X A | | | | X A | A | | | X A | | X A | | | | | X A | | | | | | | | |

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| Level | STUDY MODULE/UNIT | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | D1 | D2 | D3 | D4 | D5 | D6 |
|-------|---|--------|--------|--------|----|----|--------|----|--------|----|--------|--------|----|--------|--------|----|--------|--------|----|----|----|----|--------|--------|----|----|----|--------|----|----|----|----|
| | Commercial Management in Construction *** | | X A | | | | X A | | X A | | | X A | X | X A | | | | X A | | | | | | X A | | | | | | | | |
| | Construction Law | | X A | | | | | | | | | X A | | X | X A | | | X A | | | | | X A | | | | | | | | | |
| | Commercial Property Management | | | X A | | | X A | | | | X A | | | | X A | | X A | X A | | | | | | | | | | X A | | | | |
| | International Construction | X A | X A | | | | | | X A | | | X A | A | | X A | | X A | X A | | | | | | | | | | X A | | | | |

*The Project module is core for non-apprenticeship students only.

**The Work Based Learning Project is core for Apprenticeship Scheme students only.

*** This module is a compulsory module for students seeking RICS membership (APC route Project Management)

Programme Structure

In Autumn 2020 a new, updated curriculum will begin. To prepare you to succeed with this new curriculum, we have made some changes to the modules and the order of modules that you take. These changes depend on when you started your studies with us. Due to these changes, the structure and module information below is out of date. For up to date information, please view the relevant Module Information Sheet [on your programme page of the VLE](#). You will still meet the same programme learning outcomes as outlined in this specification.

| Module List | | | | |
|---|---|-------|---------|----------------|
| Code | Module | Level | Credits | Core /Elective |
| LAW4LST | Legal Studies | 4 | 20 | Core |
| MAN4POM | People and Organisational Management | 4 | 20 | Core |
| ECO4ECO | Economics | 4 | 20 | Core |
| TEC4BSC | Building, Environment, Technology and Simple Construction | 4 | 20 | Core |
| MAN4FRM | Financial and Resource Management | 4 | 20 | Core |
| TEC4BFS | Building, Environment, Technology and Framed Structures | 4 | 20 | Core |
| QSP5MQC | Measurement and Quantification of Construction Work | 5 | 20 | Core |
| ECO5EPC | Economics of Property and Construction | 5 | 20 | Core |
| QSP5CPR | Contract Procedures | 5 | 20 | Core |
| SMA5CSM | Construction Site Management | 5 | 20 | Core |
| TEC5BCP | Building, Environment, Technology and Complex Projects | 5 | 20 | Core |
| TEC5STR | Building Structures | 5 | 20 | Core |
| PRJ6IMP | Integrated Management Project | 6 | 20 | Core |
| PMA6CPM | Construction Project Management | 6 | 20 | Core |
| PRJ6PRO | Project * | 6 | 40 | Core* |
| PRJ6WBL | Work Based Learning Project** | 6 | 40 | Core** |
| MAN6CMC | Commercial Management in Construction*** | 6 | 20 | Elective |
| LAW6CON | Construction Law | 6 | 20 | Elective |
| MAN6MMA | Maintenance Management | 6 | 20 | Elective |
| TEC6ICO | International Construction | 6 | 20 | Elective |
| MAN6CPM | Commercial Property Management | 6 | 20 | Elective |
| <p>* The Project (PRJ6PRO) module is a mandatory module for non-apprenticeship students only, which will be started in either the April or October semester.</p> <p>**For students studying the programme as part of the Apprenticeship programme only, the Work Based Learning Project (PRJ6WBL) is a mandatory module, which will be started in either the April or October semester.</p> | | | | |

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*** This module is a compulsory module for students seeking RICS membership.

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Delivery Structure

Standard route (part-time: apprenticeship and non-apprenticeship students)

| | | SEMESTER 1 (autumn UK) | SEMESTER 2 (spring UK) |
|---------|----------|---|--|
| LEVEL 4 | YEAR 1 | People and Organisational Management | Economics |
| | | Legal Studies | Building, Environment, Technology and Simple Construction |
| | YEAR 2 | Financial and Resource Management | Building, Environment, Technology and Framed Structures |
| | | | |
| LEVEL 5 | YEAR 3 | Measurement and Quantification of Construction Works | Economics of Property and Construction |
| | | Contract Procedures | Building, Environment, Technology and Complex Projects |
| | YEAR 4 | Construction Site Management | Building Structures |
| | | Work Based Learning Project** | (spans year 3 and 4) |
| LEVEL 6 | YEAR 4 | Integrated Management Project | Construction Project Management |
| | | Construction Law <i>or</i> Commercial Property Management <i>or</i> Commercial Management in Construction | Maintenance Management <i>or</i> International Construction |
| | YEAR 4.5 | Project* | Project* |

*For non-apprenticeship students only.

**For Apprenticeship Scheme students only.

Accelerated route (full time: non-apprenticeship students)

| | | SEMESTER 1 (autumn UK) | SEMESTER 2 (spring UK) |
|---------|--------|--|--|
| LEVEL 4 | YEAR 1 | People and Organisational Management | Economics |
| | | Legal Studies | Building, Environment, Technology and Simple Construction |
| | | Financial and Resource Management | Building, Environment, Technology and Framed Structures |
| | | | |
| LEVEL 5 | YEAR 2 | Measurement and Quantification of Construction Work | Economics of Property and Construction |

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| | | | |
|---------|--------|---|---|
| | | Contract Procedures | Building, Environment, Technology and Complex Projects |
| | | Construction Site Management | Building Structures |
| | | | |
| LEVEL 6 | YEAR 3 | Integrated Management Project | Construction Project Management |
| | | Construction Law <i>or</i> Commercial Property Management <i>or</i> Commercial Management in Construction | Maintenance Management <i>or</i> International Construction |
| | | Project* | Project* |

Module Summaries

CORE MODULES

Building, Environment, Technology and Complex Projects

This module develops students' knowledge of the theory and practice of building, environment and technology for complex projects. It comprises the following topics: advanced construction techniques; technology/process innovation and development; components; building services; civil engineering; sustainability; legislation; building regulation; contaminated land; works incorporating existing buildings; (complex sites).

It includes consideration of a range of complexities due to the site, the environment, construction or unusual situations.

Building, Environment, Technology and Framed Structures

This module provides an introduction to building, environment and technology based on framed or similar construction. Topics covered include: the theory and principles of framed structures; components; design; construction techniques; construction; simple services; pathology/surveys; maintenance, sustainability; legislation and fire safety.

Examples of framed buildings are included, such as steel, reinforced concrete and timber construction applicable to buildings with different types of usage such as commercial, industrial and residential. Perspectives such as sustainability are also considered.

Building, Environment, Technology and Simple Construction

This module provides an introduction to building, environment and technology based on simple construction, establishing a foundation of knowledge and understanding to be developed in later modules. It develops students' communication skills, enabling them to describe simple construction in a professional manner.

Simple building examples are included, such as traditional masonry construction and roof construction typical in buildings of up to three storeys. Perspectives such as sustainability are considered.

Building Structures

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This module covers key aspects of the theory and practice of building structures. It builds on the structural elements within the preceding building, environment and technology modules. It enables students to analyse, interpret, apply and communicate information regarding the structural systems of buildings in a professional manner, such as understanding design calculations for building control.

It comprises the following topics: the nature and relevance of structures; the extent of parameters; structural information and data such as design codes and 'rules of thumb'; structural theory; structural calculations; practical application for building control.

Construction Project Management

This module explores a range of strategic and operational issues in construction project management. The construction project manager (CPM) plays a key role at all stages of the construction process for diverse client organisations that operate in a dynamic environment. The fundamental need for clients to enhance value in their construction projects and, increasingly to also engage stakeholders, means that the CPM has a critical contribution to make. This module therefore provides an opportunity to develop the knowledge, understanding and skills required to operate as a CPM in the context of the property and construction industries.

Construction Site Management

This module aims to develop understanding of, and practice in, the skills associated with managing, planning and controlling the production of building. It enables the construction manager to develop the skills directly related to the construction process. It also allows the student to integrate the management theory of earlier modules with the practical aspects of site management. The module relates to construction site management within the global arena and is not intended to be country specific. Students are encouraged to identify with their own working environment.

Contract Procedures

This module develops the knowledge gained from contract and tort law to focus on the specific aspects of construction projects where it is common to find standard forms of building contracts. The purpose of the module is to develop the broader understanding of law and to apply it to common eventualities on construction and building services projects.

This module aims to provide students with the contractual knowledge required to deal on behalf of all parties associated with construction contracts from inception to completion.

Economics

This module provides an introduction to economics and economic reasoning. It comprises the two main divisions of the subject - microeconomics and macroeconomics - as they apply in a typical mixed economy of both private and public sector decision-making.

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It provides the theoretical and conceptual foundation for property economics including valuation and for construction economics.

Although the focus is on tools, techniques and models, the later applied modules are anticipated both in the study materials and in the assessments by reference to the built environment context.

Financial and Resource Management

This module seeks to explain how managers within organisations in the construction, land and estate management industries, in both the public and private sectors, seek to achieve organisational aims by effectively using financial and other resources.

People management does feature in this module but the spotlight is on how managers may use non-human resources in the pursuit of corporate goals. The module covers the role of change throughout the organisation as a central theme especially in the sense of changing techniques and organisational objectives. Internal financial control and external financial reporting are distinguished from each other and the essentials of capital investment appraisal and financial decision making are explored.

Integrated Management Project

This module is designed to integrate the skills and knowledge developed during the Construction Management programme into a major piece of work, and allows the student to demonstrate an understanding of site management techniques applied to real life scenarios. It will enable students to understand and critically evaluate aspects of construction management being carried out in practice, regardless of location. It will also enable the student to work as a member of a team, with individuals from different locations and cultures.

Legal Studies

This module provides an introduction to the English legal system and covers the law of contract and the law of tort.

This module aims to:

- demonstrate how a valid contract can be formed; the importance of contract clauses; how a contract can be breached and how it can be discharged; the consequences of discharge,
- demonstrate the importance of the law of tort to the construction and property industry, with emphasis on: negligence, occupiers' liability, nuisance and trespass to land,
- establish an analytical approach to legal problem solving.

Measurement and Quantification of Construction Work

This module provides an understanding of the role of the quantity surveyor within the construction team during the tendering process. It focuses particularly on the role that the quantity surveyor plays in putting together pricing and tendering documentation and the uses for this documentation throughout a construction project.

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This module will develop key practical skills in quantifying various elements of construction work from drawings using accepted conventions and appropriate standard methods of measurement.

People and Organisational Management

This module aims to:

- explain the role and function of management within organisations in the construction, land and estate management industries, both public and private sectors,
- explore the question “what is management?” and to distinguish it from leadership,
- consider the role of change as a central theme as organisations seek to come to terms with issues that are constantly impacting, both positively and negatively, on the people, management and the structures of businesses,
- consider contemporary organisational behaviour as applied to the relevant sectors of industry.

Economics of Property and Construction

This module covers the application of basic economic theory to the four dimensions of property and construction sector activity: the market dimension, the public policy dimension, the temporal dimension and the spatial dimension. It draws on conventional micro- and macro-economics but also on aspects of managerial economics and economic geography. It encourages recognition of the relevance of economic analysis to property-related issues and facilitates a command of the analytical skills used in property and construction.

Project Modules (PRJ6PRO and PRJ6WBL)

A project module is compulsory for all students, with the difference that only Apprenticeship Scheme students study the Work Based Learning Project module (PRJ6WBL), and only non-apprenticeship students study the Undergraduate Project module (PRJ6PRO).

Project

This module (PRJ6PRO) is for non-apprenticeship students only, and the aim of this 40-credit module is to enable the student to develop specific research skills and techniques so that they can interrogate issues and situations and resolve problems related to their area of interest. The module gives students an opportunity to apply their skills and knowledge to the resolution of an industry based problem during a prolonged period of independent study. It is anticipated that the module's outcomes will directly enhance career and educational progression by equipping students with relevant analytical skills and techniques to investigate organisational and industry issues.

The Project Module is a key component of the degree programme at UCEM. All students complete a Project which is based on the student's employment or professional interest. The Project is usually problem based and set within the degree discipline that the student is studying: a construction student will be expected to complete a project centred on construction matters. The time taken to complete the programme is dictated by the course that the student is engaged upon.

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The part-time student will be expected to complete the Project Module in one semester. Students engaged on the accelerated route have 2 semesters to complete the module.

Work Based Learning Project

This module is for Apprenticeship Scheme students only, and requires students to demonstrate the relationship between relevant knowledge, skills and techniques acquired through the programme and the study of professional practice as derived from the workplace. Students need to demonstrate and communicate the details of the experience gained, together with an in depth consideration, mapping of the competency requirements and the ethical conduct needed for seeking professional body membership. Further, to build on that experience to develop specific research skills and techniques so that professional practice issues can be interrogated and independent areas of insight can be produced from combining practice and research. All students undertaking this module will be required to arrange an approved Mentor (who will be internal or external to the workplace) and be in relevant employment whilst they are undertaking their studies.

ELECTIVE MODULES

Commercial Management in Construction

This module explores a range of strategic and operational issues in commercial management of construction experienced by contracting organisations. The dynamic business environment within which contracting organisations operate means that they need to be astute when competing/bidding for work and seeking to sustain their turnover and profit margin whilst enhancing stakeholder value. This module therefore provides an opportunity to develop the knowledge, understanding and skills required to operate in a competitive commercial environment.

Construction Law

This module aims to provide students with an understanding of the major issues of law embraced by construction projects. It enables students to analyse professional liability and evaluate methods of extending/limiting liability, and to assess the extent of liability outside the contractual relationship. The module also aims to give students an in-depth understanding of the issues related to construction disputes and the various commonly used methods of dispute resolution.

International Construction

This module aims to:

- provide an overview of the global construction market and the different ways in which construction professionals deal with building in particular regions of the world,
- explore the issues related to the management of international joint ventures, including potential problem areas for project managers,
- investigate the international players, companies and clients, covering those areas which international construction managers find themselves involved in on a day to day basis,

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- integrate theoretical knowledge and understanding with best industrial practice, including health and safety and environmental sustainability.

Maintenance Management

This module aims to develop understanding of, and practice in, the skills associated with managing, planning and controlling the maintenance of buildings. It focuses on the skills required by the construction manager who is involved in buildings maintenance on a day to day basis. It will allow students to develop their understanding of the theory of both management and building technology from earlier modules and to apply these theories to practical situations.

Commercial Property Management

The aims of this module are:

- to examine the role that commercial property plays for both an investor and an occupier,
- to examine the management strategies of property owners and how the commercial property manager helps develop and implement these strategies,
- to examine the breadth of responsibilities of the professional commercial property manager at both a strategic and a fundamental level.

Learning, Teaching and Assessment Study support

Induction module:

All students are expected to complete the non-credit bearing Induction Module before the programme commences. The Induction Module is designed to equip students with the skills they need to study at UCEM.

The induction topic about referencing prepares students for the online test in referencing and citation that must be completed and passed prior to commencement of their studies.

The resources within the Induction Module are available to students throughout the duration of their study with UCEM.

Student learning support:

The Programme is delivered via UCEM's Virtual Learning Environment (VLE) and academic teaching and support is provided online giving student's access to UCEM tutors and other students worldwide.

UCEM's 'Student Central' function will act as the main point of contact for students throughout the duration of their programme. In addition the programme has a dedicated course administrator.

The academic team will guide and support students' learning. Furthermore, all students who do not engage with initial assessment or the VLE will receive additional support from the Programme team. Other UCEM administrative teams provide support for coursework, examinations and technical issues including ICT. Each student, wherever their location, will have access to a wealth of library and online materials to support their studies. International students will be supported through international case studies and guest speakers from the region will be invited to UCEM's webinar delivery.

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Special Needs support is provided via a dedicated Disability and Wellbeing team at UCEM. Additional information can be found in the UCEM Background documentation.

English language support:

English is the common language for all programmes. It is appreciated that some students will need additional support. Therefore, the VLE provides additional resources on developing academic writing skills to help students whose first language is not English.

Personal and professional development:

Students are undertaking vocational courses that are intrinsically linked to the accrediting professional bodies. Students are encouraged and supported to understand the need for the recognition of these bodies and guided as to how to meet the professional membership requirements. More generally, UCEM has a dedicated careers advisor to ensure students have appropriate access to careers education, information, advice and guidance.

Programme Specific support:

Each programme has a Programme Leader, Module Leaders and Module Tutors to support the students throughout their time with the Programme. The UCEM staff are accessible during normal UK working hours, during which they also monitor the 24/7 forums asynchronously and provide encouragement, assistance and necessary tutor and student feedback services. Access to the UCEM e-Library is on a 24/7 basis and UCEM has a full time librarian during normal UK working hours.

Learning & Teaching Strategy

Knowledge and understanding

Acquisition of knowledge in the modules of the programme is promoted through supported online learning education resources including customised text material, core texts, web based material and communication channels. These are complemented and supplemented by face-to-face sessions.

In the project, and integrated management project modules, self-directed learning and problem solving combined with supervisor consultation further enhances knowledge and understanding.

Throughout the student is encouraged to undertake independent study and enquiry to broaden their knowledge and understanding of the subject.

Intellectual skills

These skills are developed through prescribed reading, seminars, coursework and detailed feedback. The reading includes core texts, papers and relevant web-based material.

Coursework varies across the modules but collectively covers skills 1-8. Feedback includes direct coursework comments, e-mailed advice and web-based answer guides.

Web-based discussion forums between tutors and students are also facilitated.

The project and integrated management project process further embraces the cognitive skills.

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Subject practical skills

Skills 1-2 are mainly developed through the Project Module. Detailed guidelines are provided and explained on the VLE and in seminar sessions.

Skills 3-6 are variously developed within the taught modules and 4-5 are extended through the project and integrated management project.

Key/Transferable skills

The evaluation of ideas and issues through VLE discussion, and problem solving exercises; conducted individually and in groups, plus coursework, provide the mix to internalise these aspects both separately and together through different learning methods.

Assessment Strategy

Knowledge and understanding

Students are required to complete pieces of coursework in the modules which are assessed within strict time frames. Modules are also examined using the unseen closed book method. The project and integrated management project are assessed according to strict guidelines and marking scheme.

Intellectual skills

Cognitive skills are assessed through coursework assignments, the project and the integrated management project, plus unseen examinations.

Subject practical skills

Relevant assessment of these skills is undertaken mainly through module coursework.

Skills 3-6 are also assessed through unseen examination.

Skills 7 & 8 are assessed mainly through the project and integrated management project.

Key/Transferable skills

Coursework provides the main means of assessing how the introduction and development of these skills is progressing. The coursework will assess the skills aspects to a general level of transfer appropriate at Bachelors level.

The project and integrated management project provides the main means to ascertain maturing in some of these areas, at depth, within a focussed topic.

Assessment Diet.

The assessment for the UCEM supported online-taught BSc Programmes consist of a variety of assessment modes:

- assessed coursework assignments (in essay, report, problem or short question format),
- written examination papers,
- project submissions,
- work-based learning portfolios and other e-mediated submissions.

The exact combinations of assessment will vary across programmes and from module to module.

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| BSc (Hons) Construction Management | Assessment pattern | CATS credits per module | |
|--|--|----------------------------|--|
| Level 4 (Certificate of Higher Education) 120 credits | | | |
| Level 4 | 1 coursework 1 final assessment (examination or second coursework) | 20 | |
| Level 5 (Diploma in Higher Education) 120 credits | | | |
| Level 5 | 1 coursework 1 final assessment (examination or second coursework) | 20 | |
| Level 6 (Honours Degree) 120 credits | | | |
| Level 6 | 1 coursework 1 final assessment (examination or second coursework) | 20 | |
| | Integrated Management Project (1 collaborative report) | 20 | |
| | Project: (for non-apprenticeship students) 1 coursework assessment 1 Project report Work Based Learning Project: (for apprenticeship students) 1 portfolio of evidence 1 project report | 40 | |