

# **BSc (Hons) Construction Management**

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## Programme Specification

Academic year September 2017 to August 2018

Reference:

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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 Due to these changes, the structure and module information below is out of date.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
Date of next periodic review:	April 2021

# BSc (Hons) Construction Management Programme Specification

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
<p>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.</p> <p>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.</p> <p>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.</p> <p>This programme will enable the student to:</p> <ul style="list-style-type: none"><li>• work as a construction site manager, site engineer, contracts surveyor, estimator, buyer or planner;</li><li>• satisfy the academic requirements for Chartered Membership of the CIOB;</li><li>• satisfy the academic requirement for Chartered Membership of RICS Project Management pathway (note Commercial Management in Construction MAN6CMC module is compulsory);</li><li>• study the leading degree programme in this subject area that allows the student to combine work and study through supported online learning.</li></ul> <p>A project module is compulsory for all students, with the difference that only Apprenticeship Scheme students study the Work Based Learning Project module (PRJ6PLW), and only non-apprenticeship students study the Undergraduate Project module (PRJ6PRO).</p> <p>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.</p> <p>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</p>

# BSc (Hons) Construction Management Programme Specification

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

## Entry requirements

Entrants to this programme normally are required to have:

- obtained 96 UCAS tariff points (please refer to the 2017 UCAS Tariff tables) or an equivalent level of attainment through recognised qualifications not included in the UCAS tariff;\*

Or

- completed an Advanced Apprenticeship in Surveying\*\* or an Advanced Apprenticeship in Construction Technical\*\* through which a Construction and Built Environment Diploma with a minimum DD profile was obtained or through which a Construction and Built Environment Extended Diploma with a minimum MMM profile was obtained, or an equivalent qualification;

Or

- a current Royal Institution of Chartered Surveyors (RICS) Associate qualification (AssocRICS) and be in relevant employment;\*\*\*

And

- GCSE Grade C or above in English and Mathematics (Grade 4 for applicants holding newly reformed GCSEs in England) or an equivalent Level 2 qualification in English and Mathematics as defined by the Regulated Qualifications Framework (RQF) in England.

The academic level of International qualifications that are not listed on the UCAS tariff will be assessed using UK NARIC.

All UCEM programmes are taught and assessed in English. In addition to the programme entry requirements listed above, all applicants will therefore be required to demonstrate adequate proficiency in the language before being admitted to a programme:

- GCSE Grade C or above in English Language or English Literature (Grade 4 for applicants holding newly reformed GCSEs in England), or an equivalent qualification. For further information on equivalent qualifications please contact [admissions@ucem.ac.uk](mailto:admissions@ucem.ac.uk);
- Grade 5.5 or above, with at least 5.0 in the reading, writing and listening 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;

[For English language requirements please click here.](#)

\*Recognised qualifications having an equivalent level of attainment as those recognised by UCAS include: Higher National Certificate (HNC), Higher National Diploma (HND), professional qualifications from recognised institutions, certain armed forces qualifications and partially completed degrees. There are also a wide range of international

## BSc (Hons) Construction Management Programme Specification

qualifications that are deemed to have UCAS point equivalent values. For more information on equivalent qualifications please contact [admissions@ucem.ac.uk](mailto:admissions@ucem.ac.uk).

\*\* Completion of this apprenticeship will need to be evidenced through a verified copy of the apprenticeship completion certificate as issued by the apprenticeship certification body.

\*\*\* Relevant employment is employment in a job role that will support the applicant in developing the required skills, knowledge and behaviours.

If a student does not meet the standard entry requirements, and is over 21 years of age, UCEM will consider the application on an individual basis. In these cases, the application will be assessed by the Programme Leader, who will give careful consideration to any professional and life experiences as well as any academic or vocational qualifications the student may hold. The student may be asked to provide a detailed personal statement and/or a reference or letter of support from an employer or mentor to support the application.

Applications are assessed in accordance with the UCEM [Code of Practice: Admissions and Recognition of Prior Learning \(click here\)](#).

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.

### 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>	

## BSc (Hons) Construction Management Programme Specification

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													

## BSc (Hons) Construction Management Programme Specification

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			

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										
Commercial Management in Construction***		X A				X A		X A			X A	X	X A					X A					X A										

## BSc (Hons) Construction Management Programme 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
	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*
PRJ6PLW	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 (PRJ6PLW) is a mandatory module, which will be started in either the April or October semester.</p>				

# BSc (Hons) Construction Management Programme Specification

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

## Delivery Structure

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

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

\*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	<b>People and Organisational Management</b>	<b>Economics</b>
		<b>Legal Studies</b>	<b>Building, Environment, Technology and Simple Construction</b>
	YEAR 2	<b>Financial and Resource Management</b>	<b>Building, Environment, Technology and Framed Structures</b>

## BSc (Hons) Construction Management Programme Specification

LEVEL 5	YEAR 2	<b>Measurement and Quantification of Construction Work</b>	<b>Economics of Property and Construction</b>
		<b>Contract Procedures</b>	<b>Building, Environment, Technology and Complex Projects</b>
		<b>Construction Site Management</b>	<b>Building Structures</b>
LEVEL 6	YEAR 3	<b>Integrated Management Project</b>	<b>Construction Project Management</b>
		Construction Law or Commercial Property Management or Commercial Management in Construction	Maintenance Management or International Construction
		<b>Project*</b>	<b>Project*</b>

### 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**

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. 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;



# BSc (Hons) Construction Management Programme Specification

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 tender 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. 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 PRJ6PLW)**

A project module is compulsory for all students, with the difference that only Apprenticeship Scheme students study the Work Based Learning Project module (PRJ6PLW), and only non-apprenticeship students study the Undergraduate Project module (PRJ6PRO).

## **Project**

## BSc (Hons) Construction Management Programme Specification

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. 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 (PRJ6PLW) 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 Supervisor (who will be internal or external to the workplace) 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,
- 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 programme 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.

Special Needs support is provided via a dedicated Disability and Wellbeing team at UCEM.

### 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 programmes 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.

# BSc (Hons) Construction Management Programme Specification

## 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.

### *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.

# BSc (Hons) Construction Management Programme Specification

## *Intellectual skills*

Cognitive skills are assessed through coursework, 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 (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.

BSc (Hons) Construction Management	Assessment pattern	CATS credits per module
<b>Level 4 (Certificate of Higher Education) 120 credits</b>		
<b>Level 4</b>	<b>1 coursework</b> <b>1 final assessment</b> (examination or second coursework)	20
<b>Level 5 (Diploma in Higher Education) 120 credits</b>		
<b>Level 5</b>	<b>1 coursework</b> <b>1 final assessment</b> (examination or second coursework)	20

# BSc (Hons) Construction Management Programme Specification

Level 6 (Honours Degree) 120 credits		
Level 6	<b>1 coursework</b>	
	<b>1 final assessment</b> (examination or second coursework)	20
	<b>Integrated Management Project</b> (1 collaborative report)	20
	<b>Project</b> (for non-apprenticeship students) 1 coursework assessment 1 project report	40
	<b>Work Based Learning Project</b> (for apprenticeship students only) 2 portfolio submissions 1 project report	40