

**This table indicates the modules included in this programme and the structure which they follow.**

Should you require further information about the modules, please contact [admissions@ucem.ac.uk](mailto:admissions@ucem.ac.uk)

4 years (standard route).

A 3 year accelerated route is also available.

Duration is 57 months within an Apprenticeship Programme (including 48 months for the BSc (Hons) degree).\*

**Please note:**

Students can either start in October or April. For the October module information sheet, please see our website.

*Where considered necessary to do so at any stage, UCEM may seek to make variations to programme content, entry requirements and methods of delivery, and to discontinue, merge or combine programmes. This is subject to consultation with relevant students and other stakeholders, setting out the reasons for the proposed amendment(s), and compliance with the requirements of the UCEM Code of Practice on Programme Monitoring, Amendment, Review and Discontinuation. Should such an eventuality occur during the admissions and registration process, applicants will be informed immediately of any change and the alternative arrangements that have been put in place.*

*\*The actual duration is determined by when the employer and UCEM deem the apprentice to be ready to undertake the RICS Assessment of Professional Competence (APC) end-point assessment.*

| Yr                          | April Semester                                                                                                          | October Semester                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1                           | Economics (20 Credits)<br>Building, Environment, Technology & Simple Construction (20 Credits)                          | Financial & Resource Management (20 Credits)<br>People & Organisational Management (20 Credits)      |
| 2                           | Building, Environment, Technology & Framed Structures (20 Credits)<br>Economics of Property & Construction (20 Credits) | Measurement and Estimating of Construction Works 1 (20 credits)<br>Law for Construction (20 credits) |
| 3                           | Conversion, Adaptation and Maintenance (20 credits)<br>Building Structures (20 credits)                                 | Contract Administration and Practice (20 credits)<br>Construction Site Management (20 credits)       |
| 4                           | International Construction (20 credits)<br>Construction Project Management (20 credits)                                 | Integrated Management Project (20 credits)<br>Commercial Management in Construction (20 credits)     |
| <b>Project (40 Credits)</b> |                                                                                                                         |                                                                                                      |

 **Core Modules** Standard route (part-time)

## Year 1

### Economics (core)

#### Aims

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.

#### Assessment

|                                          | Weighting |
|------------------------------------------|-----------|
| Assessment 1: Coursework                 | 60%       |
| Assessment 2: Computer Marked Assessment | 40%       |
| <b>Pass mark: 40%</b>                    |           |

## Building, Environment, Technology & Simple Construction (core)

### Aims

This module provides an introduction to building, environment and technology based on simple construction. 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. The module aims to establish a foundation of building, technology and environment knowledge and understanding to be developed in other modules. It also develops students' competence in using essays, sketches and drawings to describe building, environment, technology and simple construction.

### Assessment

|                           | Weighting      |
|---------------------------|----------------|
| Assessment 1: Coursework  | 40%            |
| Assessment 2: Examination | 60%            |
|                           | Pass mark: 40% |

## Financial & Resource Management (core)

### Aims

This module explains how managers within organisations in the construction and built environment sectors achieve organisational aims by 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.

### Assessment

|                          | Weighting      |
|--------------------------|----------------|
| Assessment 1: Coursework | 40%            |
| Assessment 2: Coursework | 60%            |
|                          | Pass mark: 40% |

## People & Organisational Management (core)

### Aims

This module explores the question of "what is management?" and seeks to distinguish it from leadership. It explains the role and function of management within organisations in the construction and the built environment. It also considers 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 organisations.

### Assessment

|                          | Weighting      |
|--------------------------|----------------|
| Assessment 1: Coursework | 40%            |
| Assessment 2: Coursework | 60%            |
|                          | Pass mark: 40% |

## Year 2

### Building, Environment, Technology & Framed Structures (core)

#### Aims

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.

#### Assessment

|                          | Weighting      |
|--------------------------|----------------|
| Assessment 1: Coursework | 40%            |
| Assessment 2: Coursework | 60%            |
|                          | Pass mark: 40% |

### Economics of Property & Construction (core)

#### Aims

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.

#### Assessment

|                          | Weighting      |
|--------------------------|----------------|
| Assessment 1: Coursework | 40%            |
| Assessment 2: Coursework | 60%            |
|                          | Pass mark: 40% |

The assessment methods for the following modules, which will be delivered from October 2020, are currently in design and will be confirmed closer to the time. The assessments will consist of a variety of methods including:

- assessed coursework (such as essays, reports, portfolios, reflections, problem or short questions or video presentations)
- computer marked assessments
- project submissions

### Measurement and Estimating of Construction Works 1 (core)

#### Aims

This module provides an understanding of the need for measurement and estimating. It develops the core skills for the preparation of quantities and unit rates for costing of construction work. It will develop students' understanding of cost influences and implications of their decision making.

## Law for Construction (core)

### Aims

This module enables the student to develop a basic understanding of aspects of the English legal system and its relevance to the construction sectors, including the law of tort and contract law. This module provides the underpinning legal knowledge for further legal studies later in the programme.

## Year 3

### Conversion, Adaptation and Maintenance (core)

### Aims

This module aims to develop understanding of practice in the skills associated with managing, planning and controlling the conversion, adaptation and maintenance of buildings. This module is seen as the focus for the construction manager involved with work in buildings that are undergoing change of use or maintenance on a day to day basis. It will allow students to develop both management and construction technology skills from earlier modules, and take these further, linking theory to a practical approach in the subject.

### Building Structures (core)

### Aims

This module covers key aspects of the theory and practice of building structures. It builds on the structural elements within the preceding construction 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, and practical application for building control.

### Contract Administration and Practice (core)

### Aims

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 a 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.

### Construction Site Management (core)

### Aims

This module aims to develop understanding of, and practice the skills associated with managing, planning and controlling the production of building. This module is seen as the focus for the construction manager at Level 5, in developing the skills directly related to the construction process. It will allow the student to develop the management theory of earlier modules with the practical aspects of site management. The module will relate to construction site management within the global arena, and is not intended to be country-specific. Students will be encouraged to identify with their own working environment.

### International Construction (core)

#### Aims

This module focuses on the global construction arena. It aims to bring together some subjects covered previously and reconsider them in a global environment. The module comprises the following topics; health and safety, culture, business, resource management, and constructing in tropical climates. The module will enhance the student's ability to recognise, analyse and develop many aspects of international construction and apply this in the international construction arena.

### Construction Project Management (core)

#### Aims

This module builds upon subjects studied in the earlier on the programme, and allows the exploration of 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 clients' and organisations that operate in a dynamic environment. The fundamental need for clients to enhance added value in their construction projects, and increasingly now to also improve the stakeholder utility, means that the CPM has a critical contribution to make in such a venture. 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. Furthermore, the paramount need of a holistic combination of knowledge, understanding, skills, techniques, maturity of scholarship and commercial vocational acumen is emphasised in this level 6 module.

### Integrated Management Project (core)

#### Aims

This module is designed to integrate the skills and knowledge developed during the programme into a major piece of work, and allow the student to demonstrate an understanding of site management techniques applied to real-life scenarios. It will allow the student to work as a member of a team, co-ordinating skills and abilities.

### Commercial Management in Construction (core)

#### Aims

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 or bidding for work and seeking to sustain their turnover and profit margin whilst enhancing stakeholder value. This module therefore provides an opportunity for the student to develop the knowledge, understanding and skills required to operate in this competitive and commercial environment.

### Aims

This module aims to:

- recognise the knowledge and skills developed throughout the programme through a self-directed investigation into a chosen project;
- develop self-reflection;
- develop and apply research techniques to the detailed examination of an issue or activity within a project in either the workplace or the public domain.