



UNIVERSITY COLLEGE  
OF ESTATE MANAGEMENT

# Construction Project Management

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## Module Descriptor

Module Code:	PMA6CPM
Version:	8.00
Status:	Final
Date:	28/02/2024

## Construction Project Management

# Summary Module Details

### Module details

**Module Title:** Construction Project Management

**Module Leader:** Muhammad Rana

**Module Mode:** Supported online learning

**Semester:** Spring (UK)

**Level:** 6

**Credits:** 20

**Learning Hours:** 200

### Contact & Study Hours:

**Directed Study Time:** 90hrs (45%)

**Self-Directed Study Time:** 50hrs (25%)

**Assessment Study Time:** 60hrs (30%)

### Assessment Type:

**Coursework:** 0%

**Computer Based Assessment:** 0%

**Portfolio:** 100%

**Presentation:** 0%

**Project:** 0%

**Practical:** 0%

**Self-directed Research:** 0%

## Module Summary

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.

## Taken on which Programmes

BSc (Hons) Construction Management (C)

BSc (Hons) Quantity Surveying - Construction Quantity Surveyor Apprentices (CQS) (C)

**Core (C) or Elective (E)**

## Construction Project Management

# Module Aims

This module aims to:

- Provide knowledge, understanding and skills to solve a variety of problems in the area of construction project management.
- Develop awareness of the nature and characteristics of project management generally and more specifically in the construction industry.
- Develop understanding and the ability to critically evaluate the underlying concepts and theoretical principles in project management and its application in construction in a rigorous and robust manner.
- Cultivate intellectual curiosity and to be philosophically reflective in the subject matter consistent with this level of study.

# Module Learning Outcomes

- LO1. Demonstrate a systematic understanding of the function of project management in property, construction, and the project lifecycle; and of the concepts, theories, principles, and techniques associated with construction project management at strategic and operational level.
- LO2. Critically apply established techniques of analysis and enquiry to construction project management and use judgement to evaluate a range of solutions.
- LO3. Provide appropriate construction management advice to organisations in order to meet objectives while meeting required standards of ethics and governance.
- LO4. Demonstrate the skills to manage procedures and processes during the construction project lifecycle.

# Indicative Module Content

## Module topics

- **Project strategy, principles of strategic procurement and sustainability**

This topic reviews project strategy and the principles of strategic procurement and how the project strategy can be supported and enhanced by the selection of the correct procurement system. Project strategy and procurement also considers how sustainability can be incorporated through different stages of a project.

- **Construction legislation, partnering and supply chain management**

Management of construction legislations and other statutory consents is key to the start of the project start up process. Partnering is a way of structuring business relationships, which has profound implications for both contracts and the ways people work together. Supply chain management is the formalised process that gives structure to these arrangements. The mechanism for dispute resolution, including adversarial and non-adversarial methods of resolution.

- **Pre-contract stages, post contract management, Value Management and Critical Path Analysis**

Management of pre-contract stages is a very important part of the project process and can affect overall success as well as the stages within the post-contract (execution stage). The progress can then be quantified through value management approaches.

## Construction Project Management

- **Management of change, innovation and creativity in construction**

Includes the importance of culture, ethics, health and safety, international construction, and use of BIM (Building Information Modelling). Examine the process of change management within a fragmented and competitive built environment sector, consider creative problem solving the use of technology and consider ethics and culture in decision making with a focus on sustainability within a project.

This content will be reviewed and updated regularly to reflect the legal, ethical, and financial changes in professional standards and practice.

## Overview of Summative Assessment

Module learning outcomes	Assessment	Word count or equivalent	Weighting
LO1, LO2, LO3, LO4	<b>Assessment 1</b> Portfolio	5,000	100%

**Module Pass Mark (as a weighted average of all assessments): 40%**

## Key Module Learning Resources

### Core Sources and Texts

The core reading resources within each module will be provided via the specific Virtual Learning Environment (VLE) module pages and within the e-Library. Additional reference material and supplementary resources to support your studies are available through the UCEM e-Library.

### Module tools

Students will have access to study materials, dedicated academic support, student forums, and learning activities via an online learning platform (VLE).

The module page on the VLE is broken down into structured study weeks to help students plan their time, with each week containing a mixture of reading, case studies, videos/recordings, and interactive activities to go through. Online webinars/seminars led by the Module Leader can be attended in real time and provide opportunities to consolidate knowledge, ask questions, discuss topics and work through learning activities together. These sessions are recorded to support students who cannot attend and to enable students to recap the session and work through it at their own pace. Module forums on the VLE provide further opportunities to discuss topics with other students, complete collaborative work and get extra help from the module team.

### Professional online resources

The e-Library provides access to trusted, quality online resources, selected by subject specialists, to support students' study. This includes journals, industry publications, magazines, academic books, and a dissertation/work-based library. For a list of the key industry specific and education resources available please visit [the VLE e-Library](#).

## Construction Project Management

### Other relevant resources

Access is also provided to further information sources that include the British Library and Open University UK catalogues, as well as providing a monthly current awareness service entitled, **Knowledge Foundations** - a compendium of news, research and resources relating to the educational sector and the Built Environment.

The module resource list is available on the module VLE page and is updated regularly to ensure materials are relevant and current.