

Module Specification

Construction Management and MIS

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Part 1: Information

Module title: Construction Management and MIS

Module code: UBGMT7-15-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Environment & Technology

Department: FET Dept of Geography & Envrnmental Mgmt

Partner institutions: None

Field: Geography and Environmental Management

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes.

Outline syllabus: Contract law:

Essentials of contract, Formation of a contract, Contents of a contract, End of a

contract, Remedies for breach of contract.

Contract administration:

Overview of the construction industry, Project delivery methods, Forms of contract, Standard bidding documents, Tendering procedure, Conditions of contract.

Estimating and tendering:

Estimating process, Collection and calculation of cost information, Use of estimating software, Preparing the BOQ, Bidding strategy.

Production process improvement:

Productivity and project performance, Work study: method study and work measurement, Lean construction and waste management, Management systems and processes, Site organization.

Management of construction equipment:

Acquisition of equipment, Financing equipment, Systematic equipment selection, Setting hire rates, Assignment of equipment, Maintenance of equipment.

Development of MIS:

Use MS Access or similar programme: system analysis, design, development and implementation.

Information Technology and Infrastructure:

IT infrastructure and emerging technologies, database and information systems, telecommunications, the internet, security of information systems.

Key applications for Digital Age:

Operational excellence and customer intimacy, E-commerce, Digital marketplace, Managing knowledge, Enhancing decision making, Application of asset management.

Part 3: Teaching and learning methods

Teaching and learning methods: Student time will be allocated as follows:

Lectures: 54 hours Tutorials/seminars/project follow-up: 18 hours Directed learning:

12 hours Summative assessment: 23 hours

Self directed learning: 43 hours Total student hours: 150 hours

Scheduled learning includes lectures, seminars, tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; external visits; work based learning; supervised time in studio/workshop.

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc.

The class based delivery will involve a mixture of lectures/tutorials and computerbased learning.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate critical understanding of the legal aspects of construction contracts and use appropriately forms of contract for procurement of construction works.

MO2 Apply appropriately industry standard estimating and tendering processes and formulate bidding strategies in response to market analysis, bid evaluation criteria and behaviour of competitors.

MO3 Select, from a range, appropriate tools and techniques to increase productivity and improve project performance.

MO4 Demonstrate appropriate management of construction equipment including selection, acquisition, setting hire rates and maintenance at both project and company level.

MO5 Demonstrate a critical understanding of management information systems and use appropriately associated technology for better management of a construction company.

Student and Academic Services

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MO6 Solve a wide range of complex problems related to the analysis, design

and construction of management information systems.

MO7 Identify a range of appropriate solutions and critically evaluate and justify

proposed design solutions for management information systems, such as

decision making, business systems, asset management.

Hours to be allocated: 150

Contact hours:

Face-to-face learning = 78 hours

Total = 150

Reading list: The reading list for this module can be accessed at

readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/index.html

Part 4: Assessment

Assessment strategy: Assessment is based on a written examination and a project

report.

The strategy has been chosen to ensure that fundamental engineering principles are

assessed under controlled conditions, while a more open ended research based

assignments are used to encourage wider engagement and reflection on this topic.

Examination

Learning outcomes 1-4 are assessed with the 180 minutes examination.

Report

Learning outcomes 5-7 are assessed with the project report of 2000 words.

Introductory and follow-up tutorials are available in relation to the project undertaken

and students are expected to complete the computer-based tasks specified under

the project brief during these sessions.

Page 5 of 7 03 July 2023 Students are advised to attend all tutorial/project sessions, which provide them the opportunity to gain formative feedback.

Assessment tasks:

Examination (First Sit)

Description: Examination (180 minutes)

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Report (First Sit)

Description: Report (2000 words)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO5, MO6, MO7

Examination (Resit)

Description: Examination (180 minutes)

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Report (Resit)

Description: Report (2000 words)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Civil Engineering [Jan][FT][Northshore][4yrs] - Not Running MEng 2020-21