



MODULE SPECIFICATION

Part 1: Information			
Module Title	Construction Management and MIS		
Module Code	UBGMT7-15-M	Level	Level 7
For implementation from	2019-20		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	FET Dept of Geography & Environmental Mgmt		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Educational Aims: See Learning Outcomes.</p> <p>Outline Syllabus: Contract law: Essentials of contract, Formation of a contract, Contents of a contract, End of a contract, Remedies for breach of contract.</p> <p>Contract administration: Overview of the construction industry, Project delivery methods, Forms of contract, Standard bidding documents, Tendering procedure, Conditions of contract.</p> <p>Estimating and tendering: Estimating process, Collection and calculation of cost information, Use of estimating software, Preparing the BOQ, Bidding strategy.</p> <p>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.</p> <p>Management of construction equipment:</p>

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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.

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 computer-based learning.

Part 3: Assessment

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.

Students are advised to attend all tutorial/project sessions, which provide them the opportunity to gain formative feedback.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component B		25 %	Report (2000 words)
Examination - Component A	✓	75 %	Examination (180 minutes)

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Resit Components	Final Assessment	Element weighting	Description
Report - Component B		25 %	Report (2000 words)
Examination - Component A	✓	75 %	Examination (180 minutes)

Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:	
	Module Learning Outcomes	Reference
	Demonstrate critical understanding of the legal aspects of construction contracts and use appropriately forms of contract for procurement of construction works.	MO1
	Apply appropriately industry standard estimating and tendering processes and formulate bidding strategies in response to market analysis, bid evaluation criteria and behaviour of competitors.	MO2
	Select, from a range, appropriate tools and techniques to increase productivity and improve project performance.	MO3
	Demonstrate appropriate management of construction equipment including selection, acquisition, setting hire rates and maintenance at both project and company level.	MO4
	Demonstrate a critical understanding of management information systems and use appropriately associated technology for better management of a construction company.	MO5
	Solve a wide range of complex problems related to the analysis, design and construction of management information systems.	MO6
	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.	MO7
Contact Hours	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	72
	Face-to-face learning	78
	Total Scheduled Learning and Teaching Hours:	150
	Hours to be allocated	150
	Allocated Hours	150
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/index.html</p>	

Part 5: Contributes Towards
This module contributes towards the following programmes of study: