

University of the West of Scotland

Module Descriptor

Session: 2024/25

Title of Module: Modern Practice in Construction Management			
Code: ENGG10015	SCQF Level: 10 (Scottish Credit and Qualifications Framework)	Credit Points: 20	ECTS: 10 (European Credit Transfer Scheme)
School:	School of Computing, Engineering and Physical Sciences		
Module Co-ordinator:	Stuart Tennant		
Summary of Module			
<p>The module covers modern practice in construction management exploring construction activity, corporate strategy, the role of Government, economic exchange, stakeholder engagement, digital technologies, modern methods of working and ethical obligations and commitments. Whilst the module is structured as having discrete labels it is envisaged that many of the topics will overlap, contradict conventional understanding and challenge mainstream interpretations.</p> <p>Making sense of construction as an industry; namely, its significance and reach, contribution to local and national socio-economic well-being and the role(s), interest, influence and policy of UK and devolved Government, including publication and impact of Government sponsored construction industry reports.</p> <p>Construction relational management issues including the economic exchange and supply of construction services and goods, alternative methods of construction procurement including sustainable procurement and collaborative working in a project driven environment.</p> <p>Construction commercial management of Corporation and Project. Addresses issues such as corporate accounting, contractual forms of engagement (for example: NEC3), value analysis, risk minimization, alternative dispute resolution (ADR) and project negotiation</p> <p>Construction ethics: for example, issues related to corporate social responsibility (CSR), responsible procurement, construction project bank accounts (PBA's) and employment practices</p> <p>Construction drivers for change including Design for manufacture and assembly (Dfma), off-site construction, Digital Technologies and Building Information Modelling (BIM) and Intelligent Building design.</p> <p>This module will work to develop a number of key 'I am UWS Graduate Attributes'. Students who successfully complete this module will be knowledgeable, inquiring, problem solver, ethically minded, socially responsible, motivated, creative, collaborative and ambitious.</p>			

Module Delivery Method					
Face-To-Face	Blended	Fully Online	HybridC	Hybrid 0	Work-Based Learning
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
See Guidance Note for details.					

Campus(es) for Module Delivery						
The module will normally be offered on the following campuses / or by Distance/Online Learning: (Provided viable student numbers permit) (tick as appropriate)						
Paisley:	Ayr:	Dumfries:	Lanarkshire:	London:	Distance/Online Learning:	Other:
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Add name

Term(s) for Module Delivery					
(Provided viable student numbers permit).					
Term 1		Term 2		Term 3	
	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>

Learning Outcomes: (maximum of 5 statements) These should take cognisance of the SCQF level descriptors and be at the appropriate level for the module. At the end of this module the student will be able to:	
L1	Make sense of construction as an industry, its contribution to local and national socio-economic well-being and the role, interest and influence of UK and devolved Government.
L2	Discuss the economic exchange of construction services & goods and alternative procurement strategies in a project-driven environment.
L3	Understand the commercial issues related to corporate management including construction company (Plc) reporting and accounting protocols and construction project management including value analysis, project risk, alternative dispute resolution (ADR) and project negotiations.
L4	Evaluate ethical construction practice from multiple stakeholder viewpoints.
L5	Discuss drivers for change in construction management and technology including Design for manufacture and assembly (Dfma), off-site construction, Digital Technologies and Building Information Modelling (BIM) and Intelligent Building Design.
Employability Skills and Personal Development Planning (PDP) Skills	

SCQF Headings	During completion of this module, there will be an opportunity to achieve core skills in:	
Knowledge and Understanding (K and U)	<p>SCQF Level 10 K&U of current issues of social, technical, economic, environmental and political influences in the built environment.</p> <p>K&U economic exchange of construction services & goods and alternative procurement strategies.</p> <p>K&U of PLC report and accounts.</p> <p>K&U of project risk, procurement, NEC3, value analysis, cash flow and negotiations.</p> <p>K&U of ethical practice and the corporate social responsibility of construction industry stakeholders.</p> <p>K&U of the design, construction and management of a range of contemporary technologies, processes, procedures and industry practice.</p>	
Practice: Applied Knowledge and Understanding	<p>SCQF Level 10 Apply the concepts of economics, sustainability and technological change to the construction process.</p> <p>Apply the concepts of value analysis.</p> <p>Determine appropriate construction management and procurement strategies and select an appropriate contract form.</p> <p>Appraise construction industry engagement from an ethical perspective.</p>	
Generic Cognitive skills	<p>SCQF Level 10 Generic skills developed in critical analysis, finance, contract and negotiations.</p>	
Communication, ICT and Numeracy Skills	<p>SCQF Level 10 Communication skills honed via written reports and presentations. Computer and numeracy skills developed by means of various project management techniques.</p>	
Autonomy, Accountability and Working with others	<p>SCQF Level 10 The module will provide an opportunity to develop individual and group autonomy, time management, initiative and self-learning. Although ostensibly involved in issues of industry and management wider issues relating to sustainability, society and ethics will inevitably be addressed by students. It should also introduce concepts such as lifelong learning/CPD.</p>	
Pre-requisites:	Before undertaking this module the student should have undertaken the following:	
	Module Code:	Module Title:

	Other:	
Co-requisites	Module Code:	Module Title:

*Indicates that module descriptor is not published.

Learning and Teaching	
<p>The module delivery framework is a balance of in-person events and synchronous events. The learning and teaching student engagement for this module include the following; Lecture / core content delivery (20 hours), Tutorial /synchronous activity (12 hours), Workshops (4 hours) and Independent study (164 hours). Independent study includes the following: Courseworks, Problem Based Learning, Self-Study including consolidation week, examination and feedback & reflection.</p> <p>Formative feedback will be provided for academic activities. Formative feedback may take the form of question-and-answer sessions undertaken within lectures / delivery of core content; through worked examples, design exercises, feedback on presentations and/or discussion groups during group tutorials. Additional forums include submitting coursework and receiving formative reports for feedback; comments on the tutorial/practical work during the session, response to emails and the use of online Forums on Aula and Turnitin Gradebook for the assessments.</p>	
<p>Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:</p>	<p>Student Learning Hours (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)</p>
Lecture/Core Content Delivery	20
Tutorial/Synchronous Support Activity	12
Laboratory/Practical Demonstration/Workshop	4
Independent Study	164
	200 Hours Total
<p>**Indicative Resources: (eg. Core text, journals, internet access)</p>	

The following materials form essential underpinning for the module content and ultimately for the learning outcomes:

Support material for Modern Practice in Construction Management is available on UWS VLE / Aula. This includes access to all lecture presentations, guest lecture presentations, hand-outs, suggested reading material and URL links to appropriate sources for further information on issues related to themes within Modern Practice in Construction Management.

SOFTWARE Excel , Word and Powerpoint

Extension Resources: Consultation of the under-noted book resources is recommended and material from these resources may be of benefit to the student in the assessment process:

FARMER, M. (2016) The Farmer Review of the UK Construction Labour Model. London, Construction Leadership Council.

FEWINGS, S. (2009) Ethics for the Built Environment, London, Taylor & Francis.

GREEN, S. 2011. Making Sense of Construction Improvement, Oxford, Wiley-Blackwell.

MURRAY, M. & LANGFORD, D. (eds.) 2003. Construction Reports 1944 - 98, Oxford: Blackwell Publishing. PRYKE, S. 2009. (ed.) Construction Supply Chain Management Concepts and Case Studies. Oxford: WileyBlackwell.

RADOSAVLJEVIC, M. & BENNET, J. 2012. Construction Management Strategies: A Theory of Construction Management, Oxford, John Wiley & Sons Ltd.

(*N.B. Although reading lists should include current publications, students are advised (particularly for material marked with an asterisk*) to wait until the start of session for confirmation of the most up-to-date material)

Attendance and Engagement Requirements

In line with the [Student Attendance and Engagement Procedure](#): Students are academically engaged if they are regularly attending and participating in timetabled on-campus and online teaching sessions, asynchronous online learning activities, course-related learning resources, and complete assessments and submit these on time.

For the purposes of this module, academic engagement equates to the following:

Please refer to the UWS Academic Engagement Procedure.

Equality and Diversity

The University's Equality, Diversity and Human Rights Procedure can be accessed at the following link: [UWS Equality, Diversity and Human Rights Code](#).

Please ensure any specific requirements are detailed in this section. Module Co-ordinators should consider the accessibility of their module for groups with protected characteristics..

(N.B. Every effort will be made by the University to accommodate any equality and diversity issues brought to the attention of the School)

Supplemental Information

Divisional Programme Board	Engineering
Assessment Results (Pass/Fail)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
School Assessment Board	Civil Engineering and Quality Management
Moderator	Ashwini Konanahalli
External Examiner	Yuting Chen
Accreditation Details	This module is accredited by the Joint Board of Moderators as part of BEng (Hons) Civil Engineering and GA-BEng (Hons) Civil Engineering.
Changes/Version Number	Changes – update external examiner / update campus delivery UWS Paisley campus and UWS Lanarkshire Campus / update AY Term delivery – Term 1 and Term 2. Version: Previous: 3.08 Current: 3.09

Assessment: (also refer to Assessment Outcomes Grids below)

Assessment 1 contributes 40% to the final mark and is made up of two sub-components; (1) a report exploring corporate performance and (2) a report following a simulation exercise requiring negotiation and role-play.

Assessment 2 is a 2-hour unseen online open book examination that contributes 60% to the final mark (five questions – attempt any three questions).

(N.B. (i) **Assessment Outcomes Grids** for the module (one for each component) can be found below which clearly demonstrate how the learning outcomes of the module will be assessed.

(ii) An **indicative schedule** listing approximate times within the academic calendar when assessment is likely to feature will be provided within the Student Module Handbook.)

Assessment Outcome Grids (See Guidance Note)

Component 1							
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Dissertation/ Project report/	✓	✓	✓	✓		40	0

Component 2							
Assessment Type (Footnote B.)	Learning Outcome (1)	Learning Outcome (2)	Learning Outcome (3)	Learning Outcome (4)	Learning Outcome (5)	Weighting (%) of Assessment Element	Timetabled Contact Hours
Unseen open book	✓	✓	✓	✓	✓	60	2

Combined Total for All Components						100%	2 hours
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