Session: 2022/23

Last modified: 24/03/2021 11:56:29

	rmation trends in pro	ojects	
Code: ENGG11052	SCQF Level: 11 (Scottish Credit and Qualifications Framework)	Credit Points: 20	ECTS: 10 (European Credit Transfer Scheme)
School:	School of Computing	, Engineering and Ph	ysical Sciences
Module Co-ordinator:	Mohamed Abdel-Wa	ahab	
Summary of Module	I		
in project-based indu technologies require students with a uniqu digital technologies i project-based indust	chnologies. Ultimately process automation ar s to develop their UWS quiring, knowledgeable or, creative, imaginative echnologies is paramo ustries. The unprecede s urgent and targeted ue learning opportunit in-practice and demon tries. The module will p ots: reality capture, ser	r, students will develop ad thereby bridging the S graduate attributes, a, innovation, and prol e); Professional (Colla unt for modernising tr ented pace of change action. Therefore, thi y for learning about th istrating its potential for provide an overview of hsing, XR, data analyti	o knowledge of e gap between namely: Academic olem solving); aborative, research- aining and practice in digital s module will provide he application of or revolutionising f the following digital

practices, e.g. ROI). The new module is cutting-across a range of APM competency areas. Taking this module will support students (including business professionals looking to update their knowledge and business processes) to become at the cutting-edge of project management practice through embracing digital transformation for successful delivery of projects.

Module Delive	ery Method				
Face-To- Face	Blended	Fully Online	HybridC	HybridO	Work-based Learning
	\checkmark				

Face-To-Face

Term used to describe the traditional classroom environment where the students and the lecturer meet synchronously in the same room for the whole provision.

Blended

A mode of delivery of a module or a programme that involves online and face-to-face delivery of learning, teaching and assessment activities, student support and feedback. A programme may be considered "blended" if it includes a combination of face-to-face, online and blended modules. If an online programme has any compulsory face-to-face and campus elements it must be described as blended with clearly articulated delivery information to manage student expectations **Fully Online**

Instruction that is solely delivered by web-based or internet-based technologies. This term is used to describe the previously used terms distance learning and e learning.

HybridC

Online with mandatory face-to-face learning on Campus

HybridO

Online with optional face-to-face learning on Campus

Work-based Learning

Learning activities where the main location for the learning experience is in the workplace.

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) Distance/Online Paisley: Dumfries: Lanarkshire: London: Other: Ayr: Learning: \checkmark \checkmark Term(s) for Module Delivery (Provided viable student numbers permit). Term 1 Term 2 Term 3

Learning Outcomes: (maximum of 5 statements) On successful completion of this module the student will be able to: L1. Develop a critical understanding of the principles of digital transformation in projects L2. Develop a critical understanding of the application of digital technologies within a project context L3. Develop an awareness of the impact of digital transformation practices for enhancing integrated project delivery Employability Skills and Personal Development Planning (PDP) Skills During completion of this module, there will be an opportunity to achieve **SCQF Headings** core skills in: SCQF Level 11. Knowledge and Understanding (K and Develop a critical understanding of principles and practices of digital U) project management Practice: Applied SCQF Level 11. Knowledge and Understanding Consolidate and integrate knowledge and develop that knowledge in applying effective strategies in digital project management. SCQF Level 11. **Generic Cognitive** skills Undertake skilled, competent, safe, evaluative and reflective analytical

	practice	
	Formulate and present a	a coherent and well-researched report.
Communication, ICT and Numeracy Skills	SCQF Level 11. Present clear concise written reports that focuses on applied learning. Understand the application of appropriate digital tools.	
Autonomy, Accountability and Working with others	SCQF Level 11. Manage time, prioritise emotions and stress	workloads and recognise and manage personal
Pre-requisites:	Before undertaking this following:	module the student should have undertaken the
	Module Code:	Module Title:
	Other:	
Co-requisites	Module Code:	Module Title:

* Indicates that module descriptor is not published.

Learning and Teaching	
Learning Activities During completion of this module, the learning activities undertaken to achieve the module learning outcomes are stated below:	Student Learning Hours (Normally totalling 200 hours): (Note: Learning hours include both contact hours and hours spent on other learning activities)
Lecture/Core Content Delivery	30
Practice Based Learning	20
Independent Study	150
	200 Hours Total

**Indicative Resources: (eg. Core text, journals, internet access)

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

The following e-books will be used in addition to relevant industry literature/use cases:

Digital Quality Management in Construction

Infrastructure Computer Vision

Reality Capture in the Design and Construction Industry

(**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)

Engagement Requirements

In line with the Academic Engagement Procedure, Students are defined as academically engaged if they are regularly engaged with timetabled teaching sessions, course-related learning resources including those in the Library and on the relevant learning platform, and complete assessments and submit these on time. Please refer to the Academic Engagement Procedure at the following link: <u>Academic engagement procedure</u>

Supplemental Information

Programme Board	Engineering
Assessment Results (Pass/Fail)	No
Subject Panel	Civil and Quality
Moderator	Michele Cano
External Examiner	L Supramaniam
Accreditation Details	
Version Number	1

Assessment: (also refer to Assessment Outcomes Grids below)

Paper

(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 Handbook.)

Assessment Outcome Grids (Footnote A.)

Component 1

F					
Assessment Type (Footnote B.)	Learning Outcome (1)	0	0	Weighting (%) of Assessment Element	Timetabled Contact Hours
Review/ Article/ Critique/ Paper	\checkmark	$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	>	100	0
Combined Total For All Components			100%	0 hours	

Footnotes

A. Referred to within Assessment Section above

B. Identified in the Learning Outcome Section above

Note(s):

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- 1. More than one assessment method can be used to assess individual learning outcomes.
- Schools are responsible for determining student contact hours. Please refer to University Policy on contact hours (extract contained within section 10 of the Module Descriptor guidance note). This will normally be variable across Schools, dependent on Programmes &/or Professional requirements.

Equality and Diversity

UWS Equality and Diversity Policy

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