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MODULE DESCRIPTOR

Module Title

Leading Innovation for the Construction Industry: Practice and Process

Reference	ACM024	Version	2
Created	July 2021	SCQF Level	SCQF 11
Approved	September 2020	SCQF Points	15
Amended	September 2021	ECTS Points	7.5

Aims of Module

To equip students to lead on the development of innovative practices, methods, and ways of working within the construction industry, in order to deliver competitive advantage, improve productivity or performance, or develop new techniques appropriate to a rapidly changing 21st century environment.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Critically discuss the concepts / approaches for innovation / design thinking to catalyse change and drive business development / sustainability.
- 2 Demonstrate development and critical evaluation of an innovative idea (product or process) that has the potential to positively transform practices, processes, or methods relating to the construction industry.
- 3 Critically reflect on the process involved in developing and evaluating an innovative idea in shaping it for presentation as a credible idea worthy of developmental funding.

Indicative Module Content

An overview of innovation models and the principles, techniques and applications of Design Thinking: customer-centric thinking, ?Value Proposition?, ?Business Model Canvas?, identifying innovation opportunities, creative thinking techniques, qualifying and assessing solutions. Application of design thinking to ideas generated by the student; development of the innovative idea, and presentation as a business proposition.

Module Delivery

The module is delivered through a combination of interactive workshops (incorporating a mix of lecture content, practical tasks, case studies and online content), directed self-study and project learning.

Indicative Student Workload	Full Time	Part Time
Contact Hours	25	N/A
Non-Contact Hours	125	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Coursework	Weighting:	50%	Outcomes Assessed:	1, 2
Description:	<p>Students will prepare a report outlining the proposed idea/project. This will include an analysis of how the priority was identified and rationale for the proposed solution. The report will include an implementation plan including concept testing and stakeholder engagement. Participants should support their decisions with critical analysis and reference to theoretical models. To illustrate their case participants may wish to include tools prepared during the module and personal insights gained.</p>				

Component 2

Type:	Coursework	Weighting:	50%	Outcomes Assessed:	3
Description:	Students will prepare a document that critically reflects on their individual learning from the perspective of the process of ideas generation, evaluation and testing, and the development of the idea into a credible business proposition.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The overall module grade is based on 50% weighting of Component 1 (coursework Y axis) and 50% weighting of Component 2 (coursework X axis). An overall minimum grade D is required to pass the module. Non-submission of either component will result in an NS grade.

		Coursework:						
		A	B	C	D	E	F	NS
Coursework:	A	A	A	B	B	E	E	
	B	A	B	B	C	E	E	
	C	B	B	C	C	E	E	
	D	B	C	C	D	E	E	
	E	E	E	E	E	E	F	
	F	E	E	E	F	F	F	
	NS	Non-submission of work by published deadline or non-attendance for examination						

Module Requirements

Prerequisites for Module	None.
Corequisites for module	None Required
Precluded Modules	None.

ADDITIONAL NOTES

Where appropriate mixed discipline team working will be encouraged. Reports may be assessed as coursework or by interview panel.

INDICATIVE BIBLIOGRAPHY

- 1 CHRISTENSEN, C.M., 2016. The Innovators Dilemma: When New Technologies Cause Great Firms to Fail.
- 2 OSTERWALDER, A. et al., 2014. Value Proposition Design: How to Create Products and Services Customers want
- 3 KOTTER, J.P. 2014 XLR8, Accelerate,
- 4 DRUCKER, P. 2006 Innovation & Entrepreneurship.
- 5 BURKEN, S., 2010 The Myths of Innovation.
- 6 RIES, E., 2011 The Lean Startup: How Constant Innovation Creates Radically Successful Businesses.