

MODULE DESCRIPTOR

Module Title

Innovative Strategies: Project Management and Process

Reference	SUM551	Version	1
Created	August 2023	SCQF Level	SCQF 11
Approved	January 2024	SCQF Points	30
Amended		ECTS Points	15

Aims of Module

To develop a critical understanding of current theoretical positions and concepts relating to areas of strategic importance to the contemporary built environment. To understand the correlation between theoretical areas concerning the design and enabling processes, and to develop an ability to apply thinking in an integrated manner. The student will develop an understanding of project management in the design process with the focus around the digital workflow and professional delivery of projects.

Learning Outcomes for Module

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

- 1 Analyse within a problem solving environment the project administrative life cycle requirements and the selection of planning, monitoring, and control strategies and their significance in bringing projects to successful completion.
- 2 Evaluate the determinants, generators and constraints impinging on the design process that are central to its effective delivery.
- 3 Make informed judgements on specified aspects of Project Management and Process in the built environment

Indicative Module Content

This module introduces two key thematic areas and appraises and discusses these in relation to one another, and from a cross-disciplinary perspective, through a range of case studies. Project management content to include: Introduction, review, overview; systems theory and concepts; project conflict and negotiation; project budgeting and cost estimation; project scheduling; resource allocation; project control. Building Information Modelling content to include: BIM at the conceptual design stage; cross-discipline collaborative design; BIM during the construction stages, shared BIM models; BIM protocol, smart data workflows, building data storage and accessibility.

Module Delivery

The module will be delivered through lectures supported by online material and additional directed readings. Ideas will be explored in an applied, cross-disciplinary setting through research and analysis of selected case studies. Lecture content will be augmented by workshops and seminars in support of workshops where necessary to enhance learning around building information modelling. Presentations will be used to discuss work completed to staff typically in a Poster format or digitally.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	77	N/A
Non-Contact Hours	223	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	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:	100%	Outcomes Assessed:	1, 2, 3
Description:	A coursework in the form of a portfolio based on research/analysis of a project or case studies followed by a linked individual research/analysis in an area of personal choice relating to a specific topic.				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

The overall module grade is based on 100% weighting of (Coursework). An overall minimum grade D is required to pass the module. Non-submission will result in an NS grade.

Module Grade	Minimum Requirements to achieve Module Grade:
A	A
B	B
C	C
D	D
E	E
F	F
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	A degree in an architecturally related discipline or in an allied design-based subject.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 Stephen Read, Jurgen Rosemann, Job van Eldijk (2012), Future City, Taylor and Frances.
- 2 Journals, to include 'Design Studies', 'ITCon', Automation in Construction', professional journals, including those from the RICS, RIBA and CIAT.
- 3 Mantel, S et al 2001 Project Management in Practice, John Wiley & Sons, INC
- 4 Meredith, J and Mantel S 2001 Project Management A Managerial Approach, 4th Edition John Wiley & Sons, INC
- 5 Lehmann, Steffen (2014) Low Carbon Cities: Transforming Urban Systems. London, Routledge.