MODULE DESCRIPTOR

Module Title

Design Technology 3

Reference	SU4001	Version	7
Created	July 2021	SCQF Level	SCQF 10
Approved	July 2002	SCQF Points	30
Amended	September 2021	ECTS Points	15

Aims of Module

To provide the student with the ability to formulate strategies and design solutions, which address complex issues relating to building performance.

Learning Outcomes for Module

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

1	Develop a design brief, which identifies and addresses complex issues relating to building performance.
2	Formulate strategies to resolve problems raised by the design brief through appropriate methodologies.
3	Propose, test and produce solutions, which resolve the issues raised by the design brief.
4	Justify methodologies and design strategies through oral presentation and critique.

Indicative Module Content

This module is based on the identification, analysis and resolution of design based building performance issues; Development of a design brief, which involves the identification of complex functional and technical issues relating to building performance; Proposal of methodology for investigation, analysis and resolution of design problem; Data gathering, analysis and formulation of design solutions; Representation and justification of design methodology and solutions in a simulated professional context.

Module Delivery

This is a module predominantly involving practical work in relation to a project, which may include, field and studio work and, where appropriate, site visits. Directed study to core texts and resource material will be encouraged.

Module Ref:	SU4001 v7

Indicative Student Workload	Full Time	Part Time
Contact Hours	90	N/A
Non-Contact Hours	210	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
Actual Placement hours for professional, statutory or regulatory body		

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, 4
Description:	Single project submission with two phases, first phase group work then individual. Firstly, project based coursework developed by group work. Coursework submitted as a portfolio comprising graphic content and investigative report. Orally presented with critique. Secondly, project based individual coursework submitted as a portfolio comprising graphic content, physical and integrated project information models, with the creation of supporting documentation, including environmental strategies, specification, whole life issues and schedule. Material produced suitably for oral presentation and critique.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The overall module grade is based on 100% weighting of Component 1 (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	None, in addition to Stage 4 entry requirements.
Corequisites for module	None.
Precluded Modules	None.

ADDITIONAL NOTES

Where appropriate mixed discipline team working will be encouraged.

INDICATIVE BIBLIOGRAPHY

1. Cross, N. 1997. Engineering Design Methods, Wiley.
2. Pugh, S. 1995. Total Design, Addison Wesley.
3. Roy, R et al. 1995. Product Design & Technological Innovation, Open University.