Module Title **Design Technology 3** **Keywords** Building Performance, Design Methodology, Data Gathering	Reference SU4001 SCQF SCQF Level 10 SCQF Points 30 ECTS Points 15 Created May 2002 Approved July 2002 Amended June 2011 Version No. 5

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module

None, in addition to Stage 4 entry requirements.

Corequisite Modules

None.

Precluded Modules

None.

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:

Indicative Student Workload

	Full Time
Contact Hours	
Assessment	10
Lectures	8
Practical Work	50
Directed Study	
Blended Learning	150
Directed Study	50
Private Study	
Private Study	32

Mode of 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.

Assessment Plan

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.

	Learning Outcomes Assessed
Component 1	1,2,3,4

Component 1: All outcomes are continuously assessed by coursework in the form of a built environment project. Individual and group work will be undertaken with periodic feedback assessment reviews by tutors.

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.

Additional Notes

Where appropriate mixed discipline team working will be encouraged.