Module Title Design Technology 2 - Archectural Technology

Keywords

Design, Environmental Strategy, Conservation, Building Pathology, Integrated Information Systems

Reference	SU3040
SCQF	SCQF
Level	9
SCQF Points 30	
ECTS Points 15	
Created M	1ay 2002
Approved Augus	
Approved	August 2009
AmendedJuly 2011	
Version No. 2	

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module

SU2030 Design Technology 1 - Architectural Technology

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To provide the student with the ability to evaluate building performance and develop environmental strategies within project based context, and develop an understanding of the

Mode of Delivery

This is a module predominantly involving practical work in relation to a project, which includes field and studio work and, where appropriate, site visits. In addition, student centred CAD modelling is provided in a tutorial/workshop environment with tutor support. The workshops will be supplemented by keynote lectures. Directed study to core texts and resource material.

Assessment Plan

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

interaction between people and their environment, which can impact on building design. To provide the student with the knowledge to develop and adopt integrated information systems/ data modelling techniques using appropriate decision making tools.

Learning Outcomes for Module

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

- 1.Evaluate aspects of building performance in historical and/or contemporary contexts.
- 2.Design systems, which integrate building structure and envelope while considering issues of whole life cycle and building pathology.
- 3. Formulate environmental strategies for optimising levels of human comfort, building performance and materiality.
- 4.Explain the supporting methodologies and facilities of an object orientated CAD system to the development of integrated project information systems.

Indicative Module Content

The module will investigate performance based studies of

Learning Outcomes 1, 2, 3, and 4 are continually assessed by coursework in the form of an investigative report based on a directed precedent study will assess learning outcome 1. Learning Outcomes 2-4 are assessed by a built environment design project involving individual and group work.

Indicative Bibliography

- 1.Roaf, S. (2007) Ecohouse
- 2.Sassi, P. (2006) Strategies for Sustainable Architecture
- 3. Schittich, C. (2003) In Detail: Building in Existing Fabric: Refurbishment, Extensions, New Designs
- 4.Sulbaran, T. & Shiratuddin, M.(2009) Building InformationModelling for Construction usingArchicad
- 5.Mcleod, V. (2005) Detail in Contemporary Timber Architecture
- 6. Schittich, C (2003) Solar Architecture
- 7.Herzog, etal (2008) Timber Construction Manual
- 8. Schittich, etal (2007) Glass Construction Manual

Additional Notes

Where appropriate, mixed discipline team working will be encouraged. Where appropriate,

innovative technologies in 20th century building design; consideration of the interaction between environmental and human factors, which can impact on component, assembly and whole building performance; ergonomics, anthropometrics, comfort, health, safety & security related issues. The need for the realisation of design products, processes and procurement and also the need to develop awareness of the management issues inherent within projects, including individual and team roles; ecology; ethics in design and project information systems.

and within the context of the studio project, students will be encouraged to be innovative, experiment and push the boundaries of their competence with these techniques and tools.

Indicative Student Workload

Contact Hours	Full Time
Assessment	5
Lectures	5
Practical Work	65
Workshop	15
Directed Study	
Directed Study	100
Private Study	
Private Study	110