	Reference SCOF	SCOF
Module Title	Level	8
Building Technology 3	SCQF Poi	ints 15
	ECTS Poi	nts 7.5
Keywords	Created M	May 2002
Medium Rise Construction, Building Maintenance, Decay, Refurbishment, Environmental Appraisal,	Approved	July 2002
process	Amended	June 2011
	Version N	lo. 5

# This Version is No Longer Current

The latest version of this module is available <u>here</u>

Prerequisites for Module	Mode of Delivery
None, in addition to Stage 2 entry requirements.	This is a lecture based module supplemented with tutorials,
<b>Corequisite Modules</b>	workshops and practical work which includes fieldwork and/or site
None.	module is devoted to student
Precluded Modules	the form of directed reading to
None.	resource material.

#### **Aims of Module**

#### **Assessment Plan**

To provide the student with the ability to understand the key principles of long-span construction techniques, building environmental appraisal, built asset

	Learning Outcomes Assessed
Component 1	1,2
Component 2	3,4,5

maintenance, returbishment and renovation.

# Learning Outcomes for Module

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

- 1.Apply the appropriate assessment for building environmental performance.
- 2.Explain the principles of construction and relate them to long-span buildings and associated legislation.
- 3.Assess the sources and causes of decay in buildings.
- 4. Apply the appropriate maintenance, refurbishment and rehabilitation process.
- 5.Explain the influence of building maintenance on building design, components and elements.

## **Indicative Module Content**

The environmental performance of buildings will be explored and the appropriate tools used for evaluation. Long-span construction in contemporary use will be explored, along with a range of associated cladding and flooring methods. Building maintenance, refurbishment and rehabilitation requirements will be examined along with the Component 2: Learning outcomes 3, 4, and 5 are assessed by one supervised assessment in the form of an end of module examination.

Component 1: Learning outcomes 1 & 2 are assessed by coursework consisting of two components which are continuously assessed. One coursework normally relates to an investigative report of contemporary medium rise and long-span buildings; the other consists of an environmental assessment of a building using the appropriate tools.

### **Indicative Bibliography**

- 1.Addleson L, Building Failures: A Guide to Diagnosis, Remedy and Prevention, Butterworht Architectural, Oxford. (1992)
- 2.Seeley I H, Building Maintenance, MacMillan Educational Ltd, London. (1991)
- 3.Foster J. S. & Greeno R., Structure and Fabric, Part 2, Mitchell's Building Series, Prentice Hall; 7 edition. (2007)
- 4.Building Information Modelling For Dummies by David Philp et al, 2015 John Wiley publishers.
- 5.Getting to grips with BIM: a guide for small and medium-sized architecture, engineering and construction firms Authors: Harty James, Kouider Tahar,Paterson Graham.

requirements for any temporary works including a brief introduction to conservation issues. The module also introduces the reasons for deterioration and defects in buildings and will explore the relevant legislation relating to this topic. Remediation processes. Relevant legislation relating to the topics covered will be identified and reviewed.

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# **Additional Notes**

Where appropriate mixed discipline team working will be encouraged.

# **Indicative Student Workload**

Contact Hours	Full Time
Assessment	10
Lectures	18
Practical Work	10
Tutorials	10
Directed Study	
Directed Study	42
Private Study	
Private Study	60