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## MODULE DESCRIPTOR

### Module Title

Tropical Climate Building Design

Reference	AC4009A	Version	2
Created	June 2017	SCQF Level	SCQF 10
Approved	July 2002	SCQF Points	15
Amended	September 2017	ECTS Points	7.5

### Aims of Module

To provide the student with the skills and ability to design buildings for a tropical climate.

### Learning Outcomes for Module

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

- 1 Research and evaluate appropriate building strategies for design in a Tropical Climate.
- 2 Apply appropriate environmental, structural and constructional strategies for design in a building for a tropical climate.
- 3 Demonstrate and integrated sustainable building solution for the design of a building in a Tropical Climate.

### Indicative Module Content

The module provides practical guidance on the design of buildings and appropriate systems of environmental control for tropical climates.

### Module Delivery

This module explores the theories, choices and integration of appropriate constructional and environmental aspects in building design for tropical climates. The concept of the building as a sustainable integrated system is emphasised.

### Indicative Student Workload

	Full Time	Part Time
Contact Hours	36	N/A
Non-Contact Hours	114	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	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 report or Presentation or application project.

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

In order to pass the module students must achieve 40% or greater.

Module Grade	Minimum Requirements to achieve Module Grade:
<b>A</b>	70% or better
<b>B</b>	60% or better
<b>C</b>	50% or better
<b>D</b>	40% or better
<b>E</b>	35% or better
<b>F</b>	Less than 35%
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	None.
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 Thomas, R., (ed), Environmental Design, 3rd ed Spon, 2006 O H Koenigsberger and T G Ingersoll, Manual of Tropical Housing and Building: Climate Design, 2014 Rohinton Emmanuel, Urban Approach To Climate Sensitive Design: Strategies for the Tropics: Design for the Urban Tropics, 2005 Richard Hyde, Climate Responsive Design: A Study of Buildings in Moderate and Hot Humid Climates, 2000 J. Paul Guyer, An Introduction to Tropical Engineering: Mechanical, Electrical, Miscellaneous, 2015
- 2 Energy Research Group, A Green Vitruvius: Principles and Practice of Sustainable Architectural Design, James & James, 1999
- 3 Nicholls, R., The Green Building Bible, Vols 1 & 2, Green Building Press, 2006
- 4 Szokolay, S V., Introduction to Architectural Science: the Basis of Sustainable Design, Architectural Press, 2004