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## MODULE DESCRIPTOR

### Module Title

Advanced Construction Technology

Reference	SU4035	Version	6
Created	June 2017	SCQF Level	SCQF 10
Approved	August 2009	SCQF Points	15
Amended	September 2017	ECTS Points	7.5

### Aims of Module

To provide the student with the ability to synthesise and evaluate contemporary Civil and Construction Technology.

### Learning Outcomes for Module

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

- 1 Compare and contrast Civil Engineering technology associated with infrastructure projects.
- 2 Identify the various methods of renovation/demolition relating to existing buildings.
- 3 Analyse and synthesise the construction of complex foundation systems and enclosure options for structures.

### Indicative Module Content

Introduce and appraise Civil and Construction Engineering technology. Assess the methods available which ensure safe renovation /demolition of buildings of various material type and heights. Examine and assess the methods available for excavating and forming infrastructure. Examine a range of constructional forms in current use for multistorey residential and commercial buildings.

### Module Delivery

This module is delivered using mini lectures followed by student centred tasks.

### Indicative Student Workload

	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	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: 70% Outcomes Assessed: 1, 2, 3

Description: A research log will be compiled of two selected tasks undertaken, knowledge gained, and reflection on learning.

**Component 2**

Type: Coursework Weighting: 30% Outcomes Assessed: 2

Description: A team presentation will be delivered on selected thematic area.

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

In order to pass the module students must achieve 35% or greater in each component and 40% or greater overall.

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, in addition to course entry requirements.

Corequisites for module None.

Precluded Modules None.

**ADDITIONAL NOTES**

Where appropriate, mixed team working will be encouraged.

**INDICATIVE BIBLIOGRAPHY**

- 1 Riley. M., Cotgrave. A., 2013 Construction Technology 2. Industrial and Commercial Buildings 3rd edition. Palgrave Macmillan
- 2 [WWW.palgrave.com/science/engineering/riley/photos/Index.html](http://WWW.palgrave.com/science/engineering/riley/photos/Index.html).
- 3 Emmit., Stephen., Gorse., Christopher., 2010 2nd edition. Barry's Advanced Construction Building. Blackwell Publishing
- 4 [www building design wiki](http://www.building design wiki)