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MODULE DESCRIPTOR

Module Title

Advanced Construction Technology

| | | | |
|-----------|-------------|-------------|---------|
| Reference | SU4035 | Version | 7 |
| Created | March 2018 | SCQF Level | SCQF 10 |
| Approved | August 2009 | SCQF Points | 15 |
| Amended | July 2018 | 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. Examine and assess the methods available for excavating and forming contemporary constructional forms.

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: 100% Outcomes Assessed: 1, 2, 3
 Description: A research log will be compiled of selected technology tasks undertaken, knowledge gained and conclusions clearly documented.

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: |
|--------------|--|
| A | 70% or better |
| B | 60% or better |
| C | 50% or better |
| D | 40% or better |
| E | 35% or better |
| F | Less than 35% |
| NS | 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.
- 3 Emmit., Stephen., Gorse., Christopher., 2010 2nd edition. Barry's Advanced Construction Building. Blackwell Publishing
- 4 [www building design wiki](http://www.buildingdesign.wiki)