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MODULE DESCRIPTOR

Module Title

Environment and Services 1

| | | | |
|-----------|------------|-------------|--------|
| Reference | SU2019 | Version | 1 |
| Created | April 2019 | SCQF Level | SCQF 8 |
| Approved | May 2019 | SCQF Points | 15 |
| Amended | | ECTS Points | 7.5 |

Aims of Module

To provide the student with the ability to learn and apply the principles of building services systems for low/medium rise buildings.

Learning Outcomes for Module

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

- 1 Explain relevant technical principles in respect of building services systems and components, and their impact on construction.
- 2 Recognise the influence of environment and services on the design, construction and operation of low rise buildings.
- 3 Apply knowledge of fundamental principles of building services to low rise buildings.

Indicative Module Content

The module provides an understanding of the principles and applications for the following systems: heating systems; hot and cold water supply, above and below ground drainage; electrical and gas installation. The principles of services distribution and integration in a building are outlined. Services installation in historic buildings.

Module Delivery

This module is taught through a series of workshops exercises leading to the application of a coherent environment and services strategy to a particular building type supported by material delivered through Moodle (short videos, targeted reading list, online material and selected bibliography). A substantial part of the module is devoted to student centred learning in groups or individually, and appropriate evaluation tools will be used. Directed reading to services journals, core texts and resource material is encouraged.

Indicative Student Workload

| | Full Time | Part Time |
|--|-----------|-----------|
| Contact Hours | 45 | N/A |
| Non-Contact Hours | 105 | 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: | One piece of significant project coursework comprising group work and individual work demonstrating application of learning. | | | | |

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. |
| Corequisites for module | None. |
| Precluded Modules | None. |

ADDITIONAL NOTES

Where appropriate mixed discipline team working will be encouraged. Reports may be assessed as coursework or by interview panel.

INDICATIVE BIBLIOGRAPHY

- 1 Chadderton, D. K., Building Services Engineering (2012).
- 2 McMullan, R., Environmental Science in Building, 7th Edition. (2012)
- 3 Hall F & Greeno R, Building Services Handbook, Routledge 2017.