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MODULE DESCRIPTOR

Module Title

Building Information Modelling: Strategy and Concepts

| | | | |
|-----------|--------------|-------------|---------|
| Reference | ACM015 | Version | 4 |
| Created | May 2018 | SCQF Level | SCQF 11 |
| Approved | June 2014 | SCQF Points | 15 |
| Amended | October 2018 | ECTS Points | 7.5 |

Aims of Module

To provide the student with the ability to develop a clear and in-depth critical awareness of building information modelling management (BIMM) and the tools and processes involved.

Learning Outcomes for Module

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

- 1 Contextually interpret the need for BIMM as part of a multi disciplinary design team.
- 2 Evaluate the different tools required to produce a shared 3D building information model.
- 3 Develop a critical understanding of BIMM concepts and strategies and their impact on a project lifecycle.
- 4 Demonstrate a critical understanding of BIMM processes and protocols, and the relevant legislative framework.

Indicative Module Content

Concepts and strategies of BIMM, design-construction teams, multi-discipline implications of BIMM, IT and other tools pertinent to the application of BIMM, shared models and collaboration, communication, BIM protocols and best practice guidance, selected case studies from industry, COBie and data drops.

Module Delivery

The module is available for delivery by distance-learning via CampusMoodle. Access to staff support will be available through online forums. The delivery of this module will be supported through case studies, group activities and discussion forums.

Indicative Student Workload

| | Full Time | Part Time |
|--|-----------|-----------|
| Contact Hours | N/A | 70 |
| Non-Contact Hours | N/A | 80 |
| Placement/Work-Based Learning Experience [Notional] Hours | N/A | N/A |
| TOTAL | N/A | 150 |
| <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: 40% Outcomes Assessed: 1, 4

Description: Normally a longitudinal assessment involving topic discussion forums (20%) and a group presentation (20%).

Component 2

Type: Coursework Weighting: 60% Outcomes Assessed: 2, 3

Description: An individual written piece of work.

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

In order to pass this module students must achieve 40% or greater in each component.

| Module Grade | Minimum Requirements to achieve Module Grade: |
|--------------|--|
| A | 70% or greater |
| B | 60% or greater |
| C | 50% or greater |
| D | 40% or greater |
| E | 35% or greater |
| 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.

INDICATIVE BIBLIOGRAPHY

- 1 Journals, to include 'Design Studies', 'ITCon', 'Automation in Construction', professional journals, including those from the RICS, RIBA and CIAT.
- 2 WHYTE, J.K. and HARTMANN, T., 2017. How digitizing building information transforms the built environment. Building Research & Information, vol. 45, no. 6, 591-595.
- 3 EASTMAN, C.M., 2011. BIM handbook, Wiley (available online)
- 4 REDDY, K.P., 2012. BIM for building owners and developers, Wiley (available online)
- 5 HARTY, J., KOUIDER, T. and PATERSON, G., 2015. Getting to Grips with BIM: a guide for small and medium-sized architecture, engineering and construction firms, Routledge publications.