



Module Specification

BIM in Business and Practice

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Contents

Module Specification	1
Part 1: Information	2
Part 2: Description	2
Part 3: Teaching and learning methods	3
Part 4: Assessment.....	5
Part 5: Contributes towards	7

Part 1: Information

Module title: BIM in Business and Practice

Module code: UBLMM4-30-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

College: Faculty of Environment & Technology

School: FET Dept of Architecture & Built Environ

Partner institutions: None

Field: CONSTRUCTION AND PROPERTY

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: The BIM in Business and Practice module offers a unique opportunity to pursue a case study, closely related to an organisation's requirements, and level of development in using BIM and digital technology innovative approaches.

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: This is a placement module, designed to provide students with a real-life experience of undertaking a Building Information Modelling (BIM)-based case study in an organisation. This case-study may involve introducing an innovation and devising appropriate solutions to BIM related problems, tailored fit for the organisation's capability and specific requirements. This may involve harnessing advances in digital technology to improve organisational processes and performance.

The module is divided into two parts. Working as part of a group, students are asked to assess, evaluate and advance an organisational capability in a particular BIM domain and application. Students are expected to identify and then apply current and emerging best practice in digital technologies, applied to the built environment. The group work leads to developing a realistic roadmap for introducing the improvements and changes to the organisation. The second part of the module entails each student identifying and then developing an innovative solution to a problem or an opportunity. Each student is expected to produce a report, detailing and reflecting on the solution devised for the organisation. These two parts of the module are assessed. The presentation is assessed during the timetabled session at UWE. The report is submitted through Blackboard. Both deliveries are expected to be communicated to the organisation in the form of a presentation and a report.

Part 3: Teaching and learning methods

Teaching and learning methods: This is a project module, and students are expected to work unsupervised for some part of the study hours allocated for this module. There are however some contact hours that form a vital part of the study.

The module will be delivered by means of a series of lectures and seminars, supporting technical workshops, and tutorials in BIM. It also draws from knowledge and skills gained in other BIM modules.

Recorded lectures, tutorials, and the use of email discussion groups of virtual learning environments (VLEs) and other technology-aided means are also employed.

It can also take place in a work-based setting.

Students' time will be allocated (as a guide) as follows:

Lectures: 12 hours

Tutorials/seminars, supporting technical workshops, tutorials, and directed learning:
70 hours

Self-Directed Learning and summative assessment: 218 hours

Total hours: 300 hours

Scheduled Learning

Typically the teaching will involve a combination of information delivered through lectures, followed by seminars, tutorials, and discussion around key syllabus themes. Published case studies and research will be critically analysed, to understand different approaches to the implementation of an integrated BIM approach in a work based setting. In addition there will be opportunities for students to develop and discuss their selected case studies within the seminar sessions, as well as the virtual learning environments.

Formative work for the module will consist of students proposing a rationale for the selection of the case study, and developing a BIM case study that is closely aligned with the organisation's requirements. This could include some research into the context of the area under exploration and reflection into research already undertaken by others. This includes a critical analysis and reflects upon innovative collaborative business arrangements required to gain advantage from BIM. It also requires the examination of digital technology processes, and the effective management and communication of this information.

The seminars and tutorials will be a combination of specialist tutorials in BIM that relate to the focus of the case study. The individual student will initiate, plan and carry out the work with guidance from the tutor throughout the module. As part of the

critical thinking and reflective working demanded by the module, seminars will be held, face to face as well as in VLEs, at which a student will present their work for discussion with their peers.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Assess, align and advance a BIM related case study, in collaboration with an organisation

MO2 Identify and apply current and emerging best practice in digital technologies, in the context of the built environment.

MO3 Develop a realistic transition plan (roadmap) to implement a digital innovation

MO4 Develop, critically analyse and reflect upon innovative solutions devised to gain advantage from digital technologies

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 218 hours

Face-to-face learning = 82 hours

Total = 300

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ublmm4-30-m.html) via the following link <https://uwe.rl.talis.com/modules/ublmm4-30-m.html>

Part 4: Assessment

Assessment strategy: The Strategy:

There are two tasks to the assessment, to encourage students to engage with the case study process at an early stage. This also allows for formal points of engagement to enable tutors to monitor student's progress.

The Assessment:

Group Presentation (15 minutes plus Q&A) - Working initially as part of a group, students undertake a case study designed to advance an organisation's BIM capability, and select a digital innovation. This case study is selected in collaboration with the company. Each group of students is required to develop a rationale for the development of a rigorous case study that is informed by a deep understanding of best practice, as well as existing and emerging trends in Building Information Modelling/ digital technologies methods and techniques. The group work will finally develop a realistic transition plan (roadmap) to implement the digital innovation to gain advantage of implementing a digital technology solution. The findings will be presented to tutors and fellow students, in the early stages of the module. This presentation will be formally assessed.

Written Assignment (2500 words) - Report. Each student is expected to identify and then develop an innovative digital technology solution to a problem, faced by the organisation, or an opportunity designed to improve processes or organisation's performance. Each student is expected to complete a report, detailing and reflecting on the strengths and limitations of the digital solution devised for the organisation.

Resit Group Presentation - a similar brief to that described above, which may include some topic changes. Tutors will decide if it is best to resit a whole group from the resit, to re-group into new groups for the resit, or to allow individuals, who were active in their group, but missed the first sit, to present as an individual appendix to the first presentation. In each case the brief will ensure the learning outcomes are met.

Resit Written Assignment Report - a similar brief to that described above, which may include some topic changes.

Formative feedback - this is an ongoing part of this module. This may take a variety of forms: Feedback and guidance in small group sessions with students investigating similar topics; Feedback and discussion in one to one sessions, either face to face or through some other medium such as VLE, email, telephone or the internet.

Assessment tasks:

Presentation (First Sit)

Description: Group Presentation (15 minutes followed by Q&A)

Weighting: 35 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

Written Assignment (First Sit)

Description: Report (2500 words).

Weighting: 65 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO4

Presentation (Resit)

Description: Group presentation (15 minutes followed by Q&A)

Weighting: 35 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

Written Assignment (Resit)

Description: Report (2,500 words).

Weighting: 65 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

BIM in Design, Construction and Operation [Frenchay] MSc 2023-24

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