



Module Specification

BIM in Design Coordination

Version: 2026-27, v4.0, Approved

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Part 1: Information

Module title: BIM in Design Coordination

Module code: UBLMGW-15-M

Level: Level 7

For implementation from: 2026-27

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Arts, Technology and Environment

School: CATE School of Architecture and Environment

Partner institutions: None

Field: Architecture and the Built Environment

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: This module explores the use of BIM in the design phase, with a focus on design coordination and collaborative workflows. Students will develop both theoretical knowledge and practical skills of BIM frameworks, standards, and processes using BIM tools and emerging technologies. Delivered through lectures, guest lecture sessions from industry, software demonstrations and tutorials, group discussions, and online learning, the module prepares students to manage and coordinate design outputs and implement BIM practices in professional contexts.

Features: Not applicable

Educational aims: This module aims to develop students' understanding of how BIM supports coordinated and collaborative design. It provides the knowledge and skills needed to apply industry frameworks, standards, and tools to manage and integrate design information effectively in professional practice.

Outline syllabus: The syllabus includes, but is not limited to, the following topics:

Standards and frameworks for BIM implementation (e.g., ISO 19650 series).

BIM process in the design phase.

Role of BIM in predicting challenges and providing solutions at the design stage.

Design information workflow: generation, revision, analysis, simulation, and coordination.

Collaborative practices in design coordination.

Interoperability issues in design data exchange;

Using BIM to address construction, safety, environmental performance, and maintenance considerations during design.

Emerging directions and developments in BIM-enabled design processes.

Part 3: Teaching and learning methods

Teaching and learning methods: The module is taught by academics with research and industry experience, ensuring students gain knowledge of recent and relevant topics, including technological advancements, alongside practical skills that are directly relevant to their future careers in the industry. The content focuses on implementing BIM in the design phase in line with current frameworks and

standards, such as the ISO 19650 series, and introduces BIM tools, processes, and emerging technologies to support this.

The module is delivered through blended learning, combining primarily face-to-face teaching activities with supported online independent learning. Face-to-face activities include lectures, guest lectures from industry professionals, practical sessions for software instruction and support, and group discussions. Online activities include independent learning using digital materials, such as software tutorials and other online resources.

The module is delivered through a series of Block Day sessions, where students will learn to implement BIM-enabled processes in the design phase, with a focus on design coordination. Throughout these sessions, students will gain knowledge in the field and work collaboratively on a group project, receiving support from the teaching team (tutors and technicians) and engaging in discussions and teamwork to complete the project.

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

MO1 Apply and critically evaluate BIM tools and processes during the design phase, including emerging technological advancements relevant to this stage of the lifecycle.

MO2 Evaluate and justify the selection of BIM-enabled solutions to support communication, collaboration, decision-making, information integration, and design coordination within the design phase.

MO3 Assess and implement collaborative and work-sharing strategies to support design coordination and to enable the effective production and management of design information within multidisciplinary teams.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 120 hours

Face-to-face learning = 30 hours

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ublmgw-15-m.html) via the following link <https://uwe.rl.talis.com/modules/ublmgw-15-m.html>

Part 4: Assessment

Assessment strategy: The module is assessed through a portfolio based on a group project that students will work on throughout the term. The portfolio includes:

1. Group Presentation - 50% (30 minutes): Students will work in groups on a hypothetical project, generating and sharing design information to produce a fully coordinated design using BIM tools and processes. Each student will perform an industry-related role agreed upon by all group members. The pre-recorded presentation will showcase the group's work and individual contributions.

Assessment will take place during a live session where the presentations are streamed and a Q&A is held with students and teaching tutors. All students must participate in creating the pre-recorded presentation and attend the live session.

2. Individual Reflective Log - 50% (1500 words): Each student will prepare a reflective log, critically analysing their experience in the project and individual learning. The log should consider the role performed, tasks completed, contribution to the group project, challenges encountered, lessons learned, and overall learning outcomes. Reflections must be supported by primary data (evidence of individual work within the group) and relevant research to underpin the discussion.

Resit Strategy:

The group presentation follows the same structure as the first sit, with the only difference being the group formation. Students will be placed in new groups formed from the resit cohort, with the number of members and assigned roles determined by the module leader after the first sit results..

The individual reflective log follows the same requirements as the first sit.

Assessment tasks:**Portfolio (First Sit)**

Description: The portfolio includes a group presentation (30 minutes) and an individual reflective log (1,500 words).

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

Portfolio (Resit)

Description: The same strategy for the first sit applies: a portfolio that includes a group presentation (30 minutes) and an individual reflective log (1,500 words).

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Civil Engineering [Frenchay] MEng 2023-24

Quantity Surveying [Frenchay] GradDip 2024-25

Civil Engineering [Frenchay] MEng 2023-24

Civil Engineering [Frenchay] MSc 2025-26

Construction Project Management [Frenchay] MSc 2025-26

Quantity Surveying [Frenchay] - WITHDRAWN GradDip 2025-26

BIM in Design, Construction and Operation [Frenchay] MSc 2026-27

BIM in Design, Construction and Operation [Frenchay] MSc 2026-27

Construction Project Management [Frenchay] MSc 2026-27

Civil Engineering [Frenchay] MSc 2026-27

BIM in Design, Construction and Operation [Frenchay] MSc 2026-27

BIM in Design, Construction and Operation [Frenchay] MSc 2026-27

Civil Engineering [Frenchay] MSc 2026-27

Civil Engineering {Foundation} [Frenchay] MEng 2021-22

Civil Engineering {Foundation} [Frenchay] MEng 2022-23

Construction Project Management [Frenchay] MSc 2025-26

Civil and Environmental Engineering [Sep][PT][Frenchay][7yrs] - Withdrawn MEng
2020-21

Civil Engineering [Sep][PT][Frenchay][7yrs] MEng 2020-21

Civil Engineering [Frenchay] MEng 2022-23

Construction Project Management [Frenchay] MSc 2026-27

Construction Project Management [Frenchay] MSc 2025-26