



Module Specification

Collaboration and Coordination

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Part 1: Information

Module title: Collaboration and Coordination

Module code: UBLL7C-15-2

Level: Level 5

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 introduces students to Building Information Modelling (BIM) as a core tool for collaborative design and project coordination. Students apply BIM principles to individual and group tasks, connecting the module with their Studio 2.1 outputs or alternative projects. The module emphasises the development of technical proficiency alongside teamwork and real-world application. Students explore professional standards, including sustainability, health and safety, and regulatory compliance, aligning their learning with industry workflows and the RIBA Plan of

Work.

Through lectures, workshops, and team-based exercises, students engage in realistic project scenarios, developing BIM models and execution plans. The module concludes with a comprehensive portfolio assessment that integrates individual creativity with collaborative outputs, fostering an understanding of BIM's role in architectural practice.

This module addresses design processes and communication and business skills by emphasising BIM as a tool for enhancing project efficiency, coordination, and multidisciplinary teamwork.

Features: Digital Workflows: Introduces students to industry-standard BIM software, emphasising its role in integrated design and project coordination.

Team Collaboration: Teaches students how to work effectively within multidisciplinary teams, focusing on communication, conflict resolution, and information management.

Real-World Applications: Explores how BIM supports architectural workflows, referencing case studies and industry best practices.

Professional Alignment: Exploration of how BIM supports architectural workflows, emphasising the RIBA Plan of Work and regulatory requirements.

Educational aims: By the end of the module, students will:

Develop proficiency in BIM tools for creating detailed, metadata-rich 3D models.

Understand professional standards, including sustainability, health and safety, and statutory requirements.

Collaborate effectively in multidisciplinary teams, managing workflows and responsibilities to produce cohesive outputs.

Reflect critically on the opportunities and challenges of BIM in architectural practice.

Outline syllabus: BIM Fundamentals: Students will be introduced to the core principles and applications of Building Information Modelling (BIM). This includes an overview of industry-standard BIM software and tools, with a focus on creating detailed 3D models. Emphasis will be placed on integrating metadata to enrich design outputs with information on materials, sustainability metrics, and construction details. Students will also learn techniques for visualising and presenting their BIM models effectively.

Studio Integration: The module links directly to students' work in Studio 2.1, applying BIM tools to develop detailed models of their house designs. This process includes incorporating sustainability considerations, materials specifications, and construction detailing into their projects. For students without outputs from Studio 2.1, alternative projects will be provided, ensuring all students gain hands-on experience with BIM tools in a relevant context.

Collaborative Workflows: Students will engage in team-based exercises designed to simulate real-world collaborative workflows. These exercises will focus on coordinating BIM models, managing shared digital environments, and resolving design conflicts. A key element will be the creation of BIM Execution Plans (BEPs), where students define team roles, responsibilities, and workflows to ensure successful project delivery.

Professional Standards: The module explores the integration of BIM into professional architectural workflows, with a particular focus on the RIBA Plan of Work. Students will examine how BIM facilitates compliance with professional standards, including sustainability, health and safety, and statutory regulations. This understanding will be applied in both individual and group projects to reinforce the importance of professional accountability.

Innovative Communication: Students will develop techniques for presenting their BIM projects and workflows. This includes exploring innovative communication formats

such as role-play, storytelling, and multimedia presentations. The focus will be on articulating complex project information clearly and persuasively, ensuring that students are prepared to communicate effectively in professional practice.

Part 3: Teaching and learning methods

Teaching and learning methods: The module employs a blended approach, combining theoretical and practical learning:

Lectures and Seminars: Explore the principles of BIM, collaboration, and professional standards.

Software Tutorials: Provide hands-on training in BIM tools for design, coordination, and data integration.

Team-Based Exercises: Enabling students to apply skills.

Independent Study: Encourages self-directed refinement of technical skills and reflection on collaborative processes.

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

MO1 Collaborate within teams to develop and present an effective BIM Execution Plan for an architectural project.

MO2 Apply Building Information Modelling (BIM) and digital workflows to create coordinated and collaborative design outputs.

MO3 Reflect critically on ethical responsibilities, professional standards, and statutory requirements in collaborative architectural practice.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/23497DC7-F583-BD69-E194-F63755E9B903.html) via the following link <https://rl.talis.com/3/uwe/lists/23497DC7-F583-BD69-E194-F63755E9B903.html>

Part 4: Assessment

Assessment strategy: Project (100%) - Digital Report & Team BIM Execution Plan

Digital Report (60%)

Students will develop a 3D BIM model based on their Studio 2.1 house design. For students without a Studio 2.1 project, an alternative equivalent building will be provided. The BIM model must incorporate integrated metadata, for example, material specifications, sustainability metrics, and construction details. The report will include extracted outputs such as schedules, technical drawings, and visualisations, demonstrating the student's ability to use BIM tools effectively for design communication and project documentation.

Team BIM Execution Plan (40%)

Teams will collaboratively create and present a comprehensive BIM Execution Plan (BEP) for a realistic or pre-existing building project. The BEP will detail team roles, responsibilities, and workflows for effective collaboration. Sustainability, health and safety, and regulatory compliance must be explicitly addressed in the plan. Teams are encouraged to present their BEP in innovative formats, such as videos, role-play scenarios, or storytelling, to demonstrate their understanding of project coordination and professional standards.

Formative Opportunities: Formative feedback is provided through reviews, and interim submissions, ensuring students can refine their work iteratively and align with the module's learning outcomes.

Plagiarism Prevention: The assessment design requires original BIM models and

team-based outputs, minimising opportunities for plagiarism. Regular feedback and progress tracking ensure authenticity.

Resit Assessment: If required, the resit assessment will follow the same brief and submission format as the main assessment, allowing students to develop and submit revised submissions that meets the original assessment objectives.

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

Description: Digital Report & Team BIM Execution Plan

Weighting: 100 %

Final assessment: Yes

Group work: Yes

Learning outcomes tested: MO1, MO2, MO3

Project (Resit)

Description: Digital Report & Team BIM Execution Plan

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:

Architecture [Frenchay] BSc (Hons) 2025-26

Architecture and Planning [Frenchay] BA (Hons) 2025-26

Architecture and Environmental Engineering [Frenchay] BEng (Hons) 2025-26