



Module Specification

Architectural Representation and Modelling

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Part 1: Information

Module title: Architectural Representation and Modelling

Module code: UBLMKB-30-3

Level: Level 6

For implementation from: 2024-25

UWE credit rating: 30

ECTS credit rating: 15

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: Not applicable

Features: Not applicable

Educational aims: In addition to the learning outcomes, the educational experience may explore, develop, and practise but not formally discretely assess the following:

Develop a critical reflection on the relationship between architectural representation

and architectural design studio.

Listen to and learn from other members of diverse teams on issues pertaining to the application of architectural representation and technology.

Outline syllabus: The module is positioned at the beginning of these architectural students' postgraduate (RIBA II) studies after (in most cases) they have completed a period in architectural practice. The intention therefore is for the module to face two ways. Firstly, it is to look back at the students' recent commercial experience (indeed, ongoing architectural work in many cases) and reflect on issues of authorship, ethics, design strategy and information management as these are raised in the commercial practice of architectural representation. Secondly, it looks forward to a developing sophistication in the students' architectural studio practice and offers them a critical forum outside the central studio module within which they can critique and experiment with their representational practice and modelling of design scenarios without risk to the progress of their studio work itself. Thus, there is a strong implicit connection between this module and Design Studio A (although it is not necessary for these modules to be co-requisite). For both these perspectives, the module aims to enhance the students' critical awareness of theory associated with architectural representation and encourages an intellectual rigour in their application of representational and modelling techniques to studio work. These two viewpoints are expressed in the semester structure for the module.

Part 3: Teaching and learning methods

Teaching and learning methods: The module develops an academic context for architectural representation. An extensive literature is discussed in lectures and seminars, and issues of validity, reliability and ethics are discussed in relation to architectural practice and competition work. A first connection to design is made in the discussion of representational precedents pertinent to the concerns of the students creative processes. Within the module the students undertake some technical workshops that introduce advanced representational techniques which they are to reflect upon critically embedded in their outcomes.

The module requires the students to practice a rigorous approach to representation engendered by their theoretical studies. The students are asked to analyse their work and the one of other architects, isolate a particular representational issue or modelling problem for investigation. The students design representational experiments that are performed and exhibited during the semester. The students' work build a strategic precedent to the students' studio modules but requires them to maintain a critical attitude.

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

MO1 Evaluate and critique varying forms of architectural representation and modelling with regard to their validity, reliability and ethics

MO2 Demonstrate a high level of knowledge and skills in the application of selected representation and modelling techniques for a given design task

MO3 Show an advanced understanding and critique of design practices, technology, computer-based simulation techniques, and building information modelling related to the representation and analysis of design methods

MO4 Demonstrate a reflective and productive approach to choosing and executing an appropriate form of representation and/or predictive modelling for a given design task and reflect upon and evaluate their own Studio practice

MO5 Effectively explain to audiences – orally, in writing, and through other information graphics – the implications of architectural representation and technology on a design project

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/32597863-C9D1-55FB-C71F-2B7C2BA5CE20.html?lang=en-GB&login=1) via the following link <https://rl.talis.com/3/uwe/lists/32597863-C9D1-55FB-C71F-2B7C2BA5CE20.html?lang=en-GB&login=1>

Part 4: Assessment

Assessment strategy: At the start of the course, a limited number of lectures will prepare students to be self-critical about the relationship of how they represent and how they design.

Seminars and workshops will encourage discussion around the themes of the students' Studio practice. Workshops will allow experts to demonstrate particular techniques, and for students to experiment with them.

Tutorials will help students to develop advanced knowledge and skills in existing and emerging architectural representation technology and techniques.

The module enables students to develop their design ideas in relation to the themes and techniques covered in this module. This work will be iterative, and students will present and objectify their productive work and techniques for reflection and discussion by their peers and the tutors at regular seminars.

The module has two assessment tasks (2 Exhibitions) – the presentation of two artefacts made by the individual student, one presented as a speculative drawing and one in the form of an experimental model, embedding in the outcome a reflective account.

The emphasis in these assessments is on skills consolidation, intellectual investigation and the resultant curation of the exhibition of their work.

Assessment tasks:

Exhibition (First Sit)

Description: Exhibition 1: Speculative drawing (2D)

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5

Exhibition (First Sit)

Description: Exhibition 2: Experimental model (3D)

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5

Exhibition (Resit)

Description: Exhibition 1: Speculative drawing (2D)

Weighting: 30 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5

Exhibition (Resit)

Description: Exhibition 2: Experimental Model (3D)

Weighting: 70 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Architecture [Frenchay] MArch 2024-25

Architecture {Apprenticeship-UWE} [Frenchay] MArch 2024-25