Module Specification

Architectural Representation and Modelling

Version: 2023-24, v2.0, 13 Jun 2023

Contents

Part 1: Information

Module title: Architectural Representation and Modelling

Module code: UBLMKB-30-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Environment & Technology

Department: FET Dept of Architecture & Built Environ

Partner institutions: None

Delivery locations: Not in use for Modules

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: Semester 1 develops an academic context for architectural representation. An extensive literature is reviewed by student-led seminar and issues of validity, reliability and ethics are discussed in relation to architectural practice and competition work. A first connection to Studio is made in the discussion of representational precedents pertinent to the concerns of the students design work. During semester 1 the students undertake a series of technical workshops that introduce advanced representational techniques (for

example techniques such as parametric modelling, shared 3-dimensional model space and building information systems, and film editing), which they are to reflect upon critically in a reflective journal (Element B1).

Semester 2 requires the students to practice the more rigorous approach to representation engendered by their academic studies in the previous term. The students are asked to analyse their own developing studio work and isolate a particular representational issue or modelling problem for investigation. The students then design a discrete series of representational experiments that are performed and exhibited towards the end of the semester (Element A1). This semester makes a much more explicit link to the students' studio module but requires them to maintain a critical distance from this work and analyse their studio practice purely in representational terms. Again, the reflective diary (Element B1) is used to record this thinking.

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 &/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

Total = 300

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ublmkb-30-3.html

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 draws on knowledge gained in Design Studio A enabling 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. Formative assessment will be provided.

Throughout the duration of the module, students are asked to develop a Reflective Research Journal (Report) on their research into architectural representation and modelling and issues of representation and modelling they have uncovered in their Studio practice.

The module has three assessment tasks – the presentation of two artefacts made by

the individual student, one presented in semester one (Presentation), one in semester two (Project) and an illustrated report taking the form of a reflective research journal

Individual Presentation: The students are asked to work towards a presentation of one of their own experimental speculative drawing. (maximum presentation time 6 minutes, including questions and answers).

Individual Exhibition Project (Project)
During the second semester, students are asked to develop and carry out an experimental model of a design situation and develop this towards an exhibition. The emphasis in this Element is on the intellectual investigation of design process and the resultant curation of the exhibition piece. The students are asked to use their Reflective Research Journal to record and develop their thinking on this experiment.

Reflective Research Journal on Studio Representation (Illustrated Report). Starting in the autumn semester and continuing across the academic year to submission at the end of the academic year, students are asked to develop a journal, diary that records and reflects upon the design practice and the representative techniques they employ and develop for their work in Design Studio.

Students are asked to include a short introduction and critical conclusions that reflect upon the year's representational practice. This might complete the reflection on their work in Design Studio and should sit as integral to the presentation of their Reflective Research Journal.

Assessment components:

Report (First Sit)
Description: Illustrated report (3500 words)
Weighting: 40 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO3, MO4, MO5

Presentation (First Sit)

Description: Presentation of Individual Speculative Drawing

2-D artefact (6 minutes)

Weighting: 21 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO4, MO5

Project (First Sit)

Description: 3D Experimental Model

Weighting: 39 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO4, MO5

Report (Resit)

Description: Illustrated report (3500 words)

Weighting: 40 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

Presentation (Resit)

Description: Presentation of Speculative Drawing

2-D artefact (6 minutes)

Weighting: 21 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO4, MO5

Project (Resit)

Description: 3D Experimental Model

Weighting: 39 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO4, MO5

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Architecture [Frenchay] MArch 2023-24

Architecture {Apprenticeship-UWE} [Frenchay] MArch 2023-24