STUDENT AND ACADEMIC SERVICES

MODULE SPECIFICATION

Part 1: Information			
Module Title	BIM in Design Coordination		
Module Code	UBLMGW-15-M	Level	Level 7
For implementation from	2018-19		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Architecture and the Built Environment
Department	FET Dept of Architecture & Built Environ		
Contributes towards	BIM in Design, Construction and Operation [Sep][FT][Frenchay][1yr] MSc 2018-19 Civil Engineering [Sep][FT][Frenchay][1yr] MSc 2018-19 Construction Project Management [Jan][FT][Frenchay][1yr] MSc 2018-19 BIM in Design, Construction and Operation [Jan][FT][Frenchay][1yr] MSc 2018-19 BIM in Design, Construction and Operation [Jan][PT][Frenchay][3yrs] MSc 2018-19 BIM in Design, Construction and Operation [Sep][PT][Frenchay][3yrs] MSc 2018-19 Construction Project Management [Sep][FT][Frenchay][1yr] MSc 2018-19 Quantity Surveying [Sep][FT][Frenchay][1yr] MSc 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
Educational Aims: See Learning Outcomes   **Outline Syllabus:** BIM and the design process;

Design information workflow;

Worksharing of design information;

Collaborative practices at the design stage;

Generation, reviewing, analysis, simulation, and coordination of design information;

Role of BIM in predicting and providing solutions at design stages;

Interoperability issues in design data exchange;

Role of BIM in predicting and solving construction, safety, environmental performance, and maintenance issues at the design stage;

New directions and developments in BIM enabled design process.

Teaching and Learning Methods: The module is delivered by way of five study days for face to face teaching. Recorded lectures and the use of email discussion groups of virtual learning environments (VLEs) and other technology-aided means are also employed.

The module will be delivered by means of a series of lectures, seminars and tutorials.

Lectures and seminars will be used to enable students to support their own independent learning by exploring deeper issues pertaining to the use of BIM at the design stages, and receiving formative feedback. Occasional speakers will be used to provide up to date material and context to the applications of the subject area.

A series of tutorials are designed to provide knowledge and practical skills in the use of BIM processes and technology at the design stages.

Presentations by and to the group by the students will also be used to enable students to develop the skills and capabilities to analyse problems, negotiate, make decisions and present solutions to problems. The formative work in the presentation will provide research material useful to the final report.

Directed reading examining the key principles and relevant criteria relating to a number of topics of importance to BIM in design coordination. Their implications on design and construction professionals and other stakeholders are also examined by bringing together the BIM enabled design and collaborative aspects of the industry.

Part 3: Assessment

The assessment strategy adopted by this module involves a mix of practical skills assessment, and a report to reflect on BIM processes and technology applied at the design stages.

The practical skills assessments are designed to evaluate students' practical skills in planning and applying BIM processes and technology throughout the design stages. State of the art technology, including hardware and software, is used to support students in their learning process. Students are expected to work on real-life case study to provide a real-life experience of using BIM in design workflow.

Students are expected to prepare a report requiring a detailed knowledge of the application of BIM at design stages and in practice. It is important for the student to appreciate the depth of detail required in which BIM operate at the design stages, including prevailing and emerging collaborative practices. This report is also a reflective piece of work to examine the strengths and limitations of current and emerging BIM processes and technology at the design stages. The Report is a 2500 word report suitable for dissemination to senior management.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component B		50 %	Report (2500 words or equivalent)
Practical Skills Assessment - Component A	✓	50 %	BIM model at the design stages (Practical skills assessment)
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		50 %	Report (2500 words or equivalent)
Practical Skills Assessment - Component A	✓	50 %	BIM model at the design stages (Practical skills assessment)

Part 4: Teaching and Learning Methods	
Learning Outcomes	On successful completion of this module students will be able to:

	Module Learning Outcomes
MO1	Critically evaluate current practice in the use of BIM throughout the various stages of the design process
MO2	Analyse the wider range of BIM processes and tools and select appropriate solutions, recognising the importance of communication, coordination of design information
MO3	Apply BIM tools for generation, reviewing, analysis, simulation, and coordination of design information
MO4	Recognise the benefits of BIM to support distributed work processes, with multiple team members working on the same project
MO5	Apply work sharing methods and techniques of design information
MO6	Assess collaborative practices in a multidisciplinary team
MO7	Work as part of a team

Contact Hours	Contact Hours	
	Independent Study Hours:	
	Independent study/self-guided study	114
	Total Independent Study Hours:	114
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	36

	Total Scheduled Learning and Teaching Hours:	36
		4
	Hours to be allocated	150
	Allocated Hours	150
Reading List	*The reading list for this module can be accessed via the following link:* https://uwe.rl.talis.com/index.html	