

MODULE SPECIFICATION

Part 1: Information					
Module Title	BIM in Operation and Mainte	I in Operation and Maintenance			
Module Code	UBLMMK-15-M	Level	Level 7		
For implementation from	2018-19	-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 &	FET Dept of Architecture & Built Environ			
Contributes towards	BIM in Design, Construction and Operation [Sep][FT][Frenchay][1yr] MSc 2018-19 BIM in Design, Construction and Operation [Jan][FT][Frenchay][1yr] MSc 2018-19 Building Surveying [Sep][FT][Frenchay][1yr] MSc 2018-19				
Module type:	Standard				
Pre-requisites	None	None			
Excluded Combinations	None	None			
Co- requisites	None	None			
Module Entry requireme	nts None	None			

Part 2: Description			
Educational Aims: See Learning Outcomes			
Outline Syllabus: BIM for building and asset operation and maintenance			
BIM-Facilities Management (FM) integration			
System control			
Space tracking			
Asset management			

Maintenance management

Existing conditions modelling

Condition documentation

New directions and developments of BIM for operation and maintenance

Teaching and Learning Methods: 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 in operation and maintenance, 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 in building and asset operation and maintenance.

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 operation and maintenance. Their implications on property and realestate services are also examined by bringing together the BIM, FM and collaboration.

Hours

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.

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 building and asset operation and maintenance.

The practical skills assessments are designed to evaluate students' practical skills in planning and applying BIM processes and technology throughout building operation and maintenance. 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 operation and maintenance.

Students are expected to prepare a report requiring a detailed knowledge of the application of BIM in operation and maintenance. It is important for the student to appreciate the depth of detail required in which BIM is applied at operation and maintenance 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 operation and maintenance 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/equivalent)
Practical Skills Assessment - Component A	~	50 %	BIM model at operation and maintenance stages (Practical skills assessment)

STUDENT AND ACADEMIC SERVICES

Resit Components	Final Assessment	Element weighting	Description
Report - Component B		50 %	Report (2500 words equivalent)
Practical Skills Assessment - Component A	~	50 %	BIM model at operation and maintenance stages (Practical skills assessment)

Part 4: Teaching and Methods								
Learning Outcomes	On successful completion of this module students will be able to:							
	M	odule Learning Outcomes						
	MO1 Cr	uilding and asset operation						
	MO1 Critically analyse the role of BIM for building and asset of and maintenance MO2 Assess BIM-Facilities Management (FM) integration							
	MO3 Apply BIM for system control							
	MO4 Us							
		e BIM for asset management						
		Apply BIM for maintenance management						
	MO7 Ap	Apply BIM for existing conditions modelling						
		Produce condition documentation						
	MO9 Wo	ork as part of a team						
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Contact Hours	Contact Hours							
	Independent Study Hours:							
	Independent study/self-gu	114						
		Total Independent Study Hours:	114					
	Scheduled Learning and Teaching Hours:							
	Face-to-face learning	36						
	Total Schedule	36						
	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							