



MODULE SPECIFICATION

Part 1: Information			
Module Title	Glass and Glazing		
Module Code	UBLMG6-15-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	Façade Engineering [Sep][PT][Frenchay][2yrs] MSc 2018-19 Façade Engineering [Sep][FT][Frenchay][1yr] MSc 2018-19		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	Introduction to Facade Systems 2018-19		
Module Entry requirements	None		

Part 2: Description
<p>Overview: Co-requisites: Students must have already completed or be currently enrolled in UBLLYS-15-M Introduction to Facade Systems. This requirement is compulsory for FT and PT students. Advisory for CPD students who only intend to take an individual module.</p> <p>Educational Aims: To give a comprehensive overview of glass types, environmental and structural performance, safe use, and risk assessment.</p> <p>Outline Syllabus: Content The use of glass in Facades has increased dramatically since the development of the float process in the 1950s. The wider use of glass has brought problems such as overheating and safety and processes have been developed to mitigate these problems.</p> <p>This module begins with lectures to describe the manufacture and properties of glass.</p>

STUDENT AND ACADEMIC SERVICES

It goes on to look at the various different processing options that may be used to give a glass with improved properties and performance.

The use of glass has a significant impact on the appearance of a facade, and the processing that is undertaken will influence this appearance.

Glass often determines the acoustic performance of a facade. This unit introduces facade acoustics in general, and then focuses on the glazing, the factors that affect the performance, and how the performance may be improved.

Overheating in highly glazed buildings is a real concern. In addition to the consideration of environmental control glasses, this unit will also introduce shading in more general terms.

Safe use of glass is of paramount importance, and correct glass selection is a complex process. This unit introduces the idea of a risk assessment based selection process being used to ensure all the relevant factors are considered during this stage of the facade design.

Finally the module looks at more advanced/novel uses of glass, such as the structural use of glass and threat resistance.

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 in the virtual learning environment (VLE) 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 Facade Engineering 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 relevant to Facade Engineering.

Directed reading examining the key principles and relevant criteria relating to a number of topics of importance to Facade Engineering.

Part 3: Assessment

Component A will be assessed via an online 7-10 minute Video Presentation and a written Report. The Report provides the formal technical evidence to support the presentation – this dual format is based upon a realistic model of how a professional would need to present this kind of indepth analysis.

A preparatory exercise ensures all students start at the same basic level of knowledge when starting the intensive week of contact for the module. (Component B1)

The Case Study Report is based on a real world practical activity which a professional Facade Engineer would need to undertake, modelled around realistic case studies. (Component B2)

First Sit Components	Final Assessment	Element weighting	Description
Set Exercise - Component B	✓	30 %	Preparatory submission
Report - Component B		45 %	Case study report (2000 words)
Portfolio - Component A		25 %	Video presentation (7-10 minutes) and report (1500 words)

STUDENT AND ACADEMIC SERVICES

Resit Components	Final Assessment	Element weighting	Description
Set Exercise - Component B	✓	30 %	Preparatory submission
Report - Component B		45 %	Case study report (2000 words)
Portfolio - Component A		25 %	Video presentation (7-10 minutes) and report (1500 words)

Part 4: Teaching and Learning Methods																					
Learning Outcomes	On successful completion of this module students will be able to:																				
	<table border="1"> <thead> <tr> <th colspan="2">Module Learning Outcomes</th> </tr> </thead> <tbody> <tr> <td>MO1</td> <td>Demonstrate an in depth knowledge of glass performance and production processes</td> </tr> <tr> <td>MO2</td> <td>Specify the performance of glass for Façades</td> </tr> <tr> <td>MO3</td> <td>Critically evaluate the performance of glass and resolve design conflicts</td> </tr> <tr> <td>MO4</td> <td>Perform a risk assessment to select an appropriate glass</td> </tr> </tbody> </table>	Module Learning Outcomes		MO1	Demonstrate an in depth knowledge of glass performance and production processes	MO2	Specify the performance of glass for Façades	MO3	Critically evaluate the performance of glass and resolve design conflicts	MO4	Perform a risk assessment to select an appropriate glass										
	Module Learning Outcomes																				
	MO1	Demonstrate an in depth knowledge of glass performance and production processes																			
	MO2	Specify the performance of glass for Façades																			
MO3	Critically evaluate the performance of glass and resolve design conflicts																				
MO4	Perform a risk assessment to select an appropriate glass																				
Contact Hours	<table border="1"> <thead> <tr> <th colspan="2">Contact Hours</th> </tr> </thead> <tbody> <tr> <td colspan="2"> </td> </tr> <tr> <td colspan="2">Independent Study Hours:</td> </tr> <tr> <td>Independent study/self-guided study</td> <td>118</td> </tr> <tr> <td>Total Independent Study Hours:</td> <td>118</td> </tr> <tr> <td colspan="2">Scheduled Learning and Teaching Hours:</td> </tr> <tr> <td>Face-to-face learning</td> <td>32</td> </tr> <tr> <td>Total Scheduled Learning and Teaching Hours:</td> <td>32</td> </tr> <tr> <td>Hours to be allocated</td> <td>150</td> </tr> <tr> <td>Allocated Hours</td> <td>150</td> </tr> </tbody> </table>	Contact Hours				Independent Study Hours:		Independent study/self-guided study	118	Total Independent Study Hours:	118	Scheduled Learning and Teaching Hours:		Face-to-face learning	32	Total Scheduled Learning and Teaching Hours:	32	Hours to be allocated	150	Allocated Hours	150
	Contact Hours																				
	Independent Study Hours:																				
	Independent study/self-guided study	118																			
	Total Independent Study Hours:	118																			
	Scheduled Learning and Teaching Hours:																				
	Face-to-face learning	32																			
	Total Scheduled Learning and Teaching Hours:	32																			
	Hours to be allocated	150																			
Allocated Hours	150																				
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/modules/ublmg6-15-m.html</p>																				