



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Glass and Glazing		
Module Code	UBLMG6-15-M	Level	Level 7
For implementation from	2019-20		
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			
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	Introduction to Facade Systems 2019-20		
Module Entry requirements	None		

Part 2: Description
<p>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><b>Educational Aims:</b> To give a comprehensive overview of glass types, environmental and structural performance, safe use, and risk assessment.</p> <p><b>Outline Syllabus:</b> Content:</p> <p>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 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 Façade 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 Façade Engineering.

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

Contact Hours:

The module is delivered by way of five study days for face to face teaching.

### Part 3: Assessment

Component A will be assessed via a Video Presentation (7-10 mins) based upon a real world model, requiring a professional in depth analysis of a Structural Glass Systems.

Component B is assessed via a set of Glass Performance/Appearance Notes (B1) and a Glass Risk Assessment Report (B2).

Resit strategy consists on having to rework the failed components so that the students can improve according to the feedback received.

First Sit Components	Final Assessment	Element weighting	Description
Set Exercise - Component B		19 %	Notes
Report - Component B	✓	56 %	Report on Glass Risk Assessment (2,000 words)
Presentation - Component A		25 %	Video Presentation on Structural Glass Systems (10 mins)

## STUDENT AND ACADEMIC SERVICES

Resit Components	Final Assessment	Element weighting	Description
Set Exercise - Component B		19 %	Notes
Report - Component B	✓	56 %	Report on Glass Risk Assessment (2,000 words)
Presentation - Component A		25 %	Video presentation ( 10 minutes)

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	<b>Contact Hours</b>										
	<b>Independent Study Hours:</b>										
	Independent study/self-guided study	118									
	<b>Total Independent Study Hours:</b>	118									
	<b>Scheduled Learning and Teaching Hours:</b>										
	Face-to-face learning	32									
	<b>Total Scheduled Learning and Teaching Hours:</b>	32									
	<b>Hours to be allocated</b>	150									
	<b>Allocated Hours</b>	150									
	Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p><a href="https://uwe.rl.talis.com/modules/ublmg6-15-m.html">https://uwe.rl.talis.com/modules/ublmg6-15-m.html</a></p>									

