



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Weathertightness		
Module Code	UBLMH5-15-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		
Module type:	Project		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	Introduction to Façade Systems 2018-19		
Module Entry requirements	None		

Part 2: Description
<p><b>Overview:</b> Co-requisites: Students must have already completed or be currently enrolled in UBLLYS-15-M Introduction to Façade 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 provide an understanding of the principles of façade weathertightness, how it can be specified and assessed.</p> <p><b>Outline Syllabus:</b> Building Façades are required to be weathertight to provide a dry comfortable environment for the building occupants. Failure to satisfy this requirement is a major cause of dissatisfaction for building owners and occupants.</p> <p>Weathertightness includes the ability of the façade to resist air leakage, water penetration and maintain these properties when subjected to windload.</p> <p>This module considers how weathertightness is achieved concentrating on modern methods of façade construction. This will include discussion of design principles in terms of drained and ventilated systems and pressure equalisation and practical application in terms of the use of sealants and gaskets.</p> <p>Specification of weathertightness is generally based on testing and a major part of the course is</p>

## STUDENT AND ACADEMIC SERVICES

taken up with the details of testing for weathertightness.

As weathertightness requirements are related to wind load the course will include lectures on the assessment of wind loads on Façades.

**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 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.

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

### Part 3: Assessment

A formative preparatory exercise allows all students to start at the same basic level of knowledge when starting the intensive week of contact for the module.

The Case study: Letter exercise is based on a real world practical activity which a professional Façade Engineer would need to undertake, modelled around a realistic case study.

The essay supports assimilation and reflection of taught material, with literature and application to real world examples.

First Sit Components	Final Assessment	Element weighting	Description
Set Exercise - Component A		25 %	Preparatory Submission
Report - Component A	✓	37 %	Report specification (2000 words)
Case Study - Component A		38 %	Letter: Client Recommendations
Resit Components	Final Assessment	Element weighting	Description
Set Exercise - Component A		25 %	Preparatory Submission
Report - Component A	✓	37 %	Report specification (2000 words)
Case Study - Component A		38 %	Letter: Client Recommendations

STUDENT AND ACADEMIC SERVICES

<b>Part 4: Teaching and Learning Methods</b>																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th style="text-align: left;"><b>Module Learning Outcomes</b></th> <th style="text-align: left;"><b>Reference</b></th> </tr> </thead> <tbody> <tr> <td>Specify weathertightness criteria and appropriate testing</td> <td>MO1</td> </tr> <tr> <td>Design joints and seals in Façades</td> <td>MO2</td> </tr> <tr> <td>Critically analyse the movement of moisture within walls</td> <td>MO3</td> </tr> <tr> <td>Calculate the wind load on Façades</td> <td>MO4</td> </tr> </tbody> </table>	<b>Module Learning Outcomes</b>	<b>Reference</b>	Specify weathertightness criteria and appropriate testing	MO1	Design joints and seals in Façades	MO2	Critically analyse the movement of moisture within walls	MO3	Calculate the wind load on Façades	MO4						
<b>Module Learning Outcomes</b>	<b>Reference</b>																
Specify weathertightness criteria and appropriate testing	MO1																
Design joints and seals in Façades	MO2																
Critically analyse the movement of moisture within walls	MO3																
Calculate the wind load on Façades	MO4																
Contact Hours	<table border="1"> <tbody> <tr> <td colspan="2"><b>Independent Study Hours:</b></td> </tr> <tr> <td style="text-align: center;">Independent study/self-guided study</td> <td style="text-align: center;">118</td> </tr> <tr> <td style="text-align: right;"><b>Total Independent Study Hours:</b></td> <td style="text-align: center;">118</td> </tr> <tr> <td colspan="2"><b>Scheduled Learning and Teaching Hours:</b></td> </tr> <tr> <td style="text-align: center;">Face-to-face learning</td> <td style="text-align: center;">32</td> </tr> <tr> <td style="text-align: right;"><b>Total Scheduled Learning and Teaching Hours:</b></td> <td style="text-align: center;">32</td> </tr> <tr> <td><b>Hours to be allocated</b></td> <td style="text-align: center;">150</td> </tr> <tr> <td><b>Allocated Hours</b></td> <td style="text-align: center;">150</td> </tr> </tbody> </table>	<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
<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><i>The reading list for this module can be accessed via the following link:</i></p> <p><a href="https://uwe.rl.talis.com/modules/ublmh5-15-m.html">https://uwe.rl.talis.com/modules/ublmh5-15-m.html</a></p>																

<b>Part 5: Contributes Towards</b>
<p>This module contributes towards the following programmes of study:</p> <p>Façade Engineering [Sep][PT][Frenchay][2yrs] MSc 2018-19</p> <p>Façade Engineering [Sep][FT][Frenchay][1yr] MSc 2018-19</p>