



MODULE SPECIFICATION

Part 1: Information			
Module Title	Advanced Facades		
Module Code	UBLMJP-15-M	Level	Level 7
For implementation from	2020-21		
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:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description
<p>Overview: Pre-requisites: PT students are strongly recommended to take this module as the last of the eight 15 credit modules.</p> <p>Educational Aims: This unit looks at several areas of development and technology that are likely to play an ever increasing role in future façade design.</p> <p>Outline Syllabus: The use of natural ventilation in new buildings is increasing as we look for ways to reduce energy use. In order to provide comfortable conditions and meet the need of occupants, the use of automated Façades are becoming more common. How this is achieved? How are automated Façades specified, installed and commissioned? What functions can they provide? How are they controlled? Do we incorporate and integrate automated shading devices? What role can double Façades play?</p> <p>Since July 2016, BIM level 2 has been required for all government funding building in the UK. What does this mean for the façade? What information is required? By who, and when? What level of detail? Who owns the information and how is it updated?</p> <p>Fire performance of Façades is an area of great interest, especially after numerous recent large-scale fires around the world . This unit will discuss the principles of fire spread and how they relate to the façade. Fire testing and the regulatory requirements will be discussed.</p>

STUDENT AND ACADEMIC SERVICES

The final section on interfaces and practical details will look at how the different performance characteristics discussed during the course can all be satisfied.

Teaching and Learning Methods: The module will be delivered by means of:

Lectures and seminars which enable students to support their own independent learning by exploring deeper issues pertaining to Façade Engineering, visiting 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

Component A will be assessed via a Video Presentation on a real world practical activity which a professional Façade Engineer would need to undertake on Automated Facades

Component B is assessed via an Essay which supports assimilation and reflection of taught material, with literature and application to real world example of a Risk assessments

Resit strategy will consist on working through a similar form of assessment, so that the students can improve according to the feedback received.

First Sit Components	Final Assessment	Element weighting	Description
Presentation - Component A		25 %	Video Presentation (7-10 mins)
Written Assignment - Component B	✓	75 %	Essay (2,500 words)
Resit Components	Final Assessment	Element weighting	Description
Presentation - Component A		25 %	Video Presentation (7-10 mins)
Written Assignment - Component B	✓	75 %	Essay (2,500 words)

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Part 4: Teaching and Learning Methods																	
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;">Module Learning Outcomes</th> <th style="text-align: left;">Reference</th> </tr> </thead> <tbody> <tr> <td>Evaluate key façade details (comp A)</td> <td>MO1</td> </tr> <tr> <td>Identify factors which influence the design, specification and control of automated façade systems. (Component B)</td> <td>MO2</td> </tr> <tr> <td>Asses the effectiveness of different forms of shading devices (Component B)</td> <td>MO3</td> </tr> <tr> <td>Identify factors which might influence the risk of fire spread in a façade system. (Component B)</td> <td>MO4</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Evaluate key façade details (comp A)	MO1	Identify factors which influence the design, specification and control of automated façade systems. (Component B)	MO2	Asses the effectiveness of different forms of shading devices (Component B)	MO3	Identify factors which might influence the risk of fire spread in a façade system. (Component B)	MO4						
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Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://uwe.rl.talis.com/modules/ublmjp-15-m.html</p>																

Part 5: Contributes Towards	
This module contributes towards the following programmes of study:	