MODULE SPECIFICATION

Part 1: Information			
Module Title	Facade Materials and Components		
Module Code	UBLMFK-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	Introduction to Facade Systems 2020-21		
Module Entry requirements	None		

Part 2: Description

Overview: 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.

Educational Aims: This module covers the principal materials used in a contemporary facade with the exception of glass which is covered by a discrete unit on glass and glazing.

Outline Syllabus: Material selection plays a key role in façade design. In addition to providing the façade aesthetic, different materials and their detailing will influence numerous factors including the thermal performance, fire performance, weathertightness and durability.

Failure to understand how different materials perform, how they should be maintained and limitations to their use will result in a façade which will not perform as intended and ultimately fail prematurely.

Module Aims:
To provide an understanding of the through-life performance of the many materials used in façade construction.

Content:

Overview of materials including: metal, ceramic, polymeric, timber and fabric. Forming and assembly processes. Durability and processes of degradation. Methods for assessing performance including Failure Mode Effects Analysis (FMEA).

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 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.

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 façade Engineering.

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

Part 3: Assessment

Component A is assessed via an individual presentation on Façade Materials

Component B is assessed via an Essay (2500 words) which supports assimilation and reflection of taught material, with literature and application to real world examples to identify and evaluate typical factors which might cause a typical facade component to degrade or fail in service.

Resit strategy will consist on working through a similar form of assessment.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Presentation - Component A		25 %	Individual Presentation on a material issue (7-10 minutes)
Written Assignment - Component B		75 %	Essay on Materials (2500 words)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Presentation - Component A		25 %	Individual Presentation on a material issue (7-10 minutes)
Written Assignment - Component B		75 %	Essay on Materials (2,500 words)

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will achieve the following learning outcomes:

Module Learning Outcomes	Reference
Analyse and identify the primary properties of the many façade materials and potential issues when they are used together and incorporated in complex assemblies. (Component A,B)	MO1
Identify ways to evaluate, specify and verify the performance of materials. (Component A,B)	MO2
Understand the differences between some common forms of assembly, mounting and other detailing. (Component A,B)	MO3
Identify and evaluate typical factors which might cause a typical facade component to degrade or fail in service (Component B)	MO4
Demonstrate oral communication skills in a multi-disciplinary group environment (Component A)	MO5

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

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/modules/ublmfk-15-m.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study: