



## MODULE SPECIFICATION

Part 1: Information			
Module Title	Commercial Development		
Module Code	UBLMUS-30-2	Level	Level 5
For implementation from	2020-21		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Architecture and the Built Environment
Department	FET Dept of Architecture & Built Environ		
Module Type:	Standard		
Pre-requisites	Construction Technology and Services 2020-21		
Excluded Combinations	Commercial Development 2020-21		
Co-requisites	None		
Module Entry Requirements	None		
PSRB Requirements	None		

Part 2: Description
<p><b>Overview:</b> Pre-requisites: students must take one out of UBLMAB-30-1 An Introduction to Building Construction, UBLMYS-30-1 Construction Technology and Services or UBLLWH-30-1 Investigating Structures.</p> <p>Co-requisites: Relevant Professional Experience.</p> <p>This module enables students to explore and evaluate the design of medium-rise and medium span, skeletal framed buildings within the context of contemporary office developments. It places a particular emphasis on exploring the interconnected technologies of commercial building design and how they can best be used to ensure that buildings represent a sound investment on the part of the landlord / owner by allowing adaptability into the future but also to ensure that they offer sufficient flexibility to support the business objectives of the occupier.</p> <p><b>Educational Aims:</b> In addition to the Learning Outcomes, the educational experience may explore, develop, and practise but not formally discretely assess the following: Working as a team member.</p>

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**Outline Syllabus:** The module content is studied within the evolving context of sustainable development and a raised awareness of the importance of building performance. Students will become acquainted with the range of components and installations that can be incorporated within a development but also the tools that are most frequently used to identify and evaluate their potential technical, economic and environmental performance.

The following provides an indicative list of headings that will help inform the syllabus although not necessarily in this sequence, or with equal measure.

Superstructure:

Building Envelope, including complete exterior wall design, facade and cladding approaches and commercial roofing.

Internal components and finishes.

Sound insulation and acoustics.

Fire Safety - passive.

Building Structure (skeletal framed approaches).

Substructure:

Excavation and ground retention.

Foundations.

Basements and basement enclosure (including water ingress protection).

Ground-bearing slabs.

Site analysis (brown field).

Services:

Heating.

Cooling.

Ventilation Strategies.

Lighting Strategies.

Fire Safety - active.

Security.

Lifts.

Best practice in multi-tenant office building design; landlord and occupier's perspectives.

Building form; co-ordination and layers of change.

Cost Planning.

Development appraisal; issues of cost, value and the market.

Sustainable development; impact, potential drivers and measurement.

Building performance and environmental assessment.

**Teaching and Learning Methods:** This module will be delivered as follows:

72 hours contact time that includes lecture based sessions, workshop sessions, small group seminars / tutorials and application-based skills and general technical knowledge tutorials.

108 hours are scheduled for self-directed learning, assimilation and development of knowledge to be able to carry out the 2 assessment pieces proposed below.

48 hours technical report preparation.

Scheduled learning

As detailed above the module aims to gain knowledge of the technology of construction (structures and enclosure) and building services approaches for medium-rise commercial office buildings. This will be achieved mainly through the following methods: lectures, seminars, tutorials, demonstrations and practical classes and workshops. The tutorials during the module will have a different emphasis to help the students with the assimilation of knowledge. Some of the tutorials will focus in developing the application-based skills and general technical knowledge

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in preparation for the assessments, and others will guide the students to develop a small portfolio of exercises and analysis tasks that explore different situations and scenarios related to building services and financial applications in contemporary commercial office building projects.

### Independent learning

In order to fulfil the requirements of the module a certain amount of independent learning is required. This time is used to support the taught contact sessions and in preparation of the exam, the portfolio and the report(s). This will be achieved through the following methods: hours engaged with essential reading, formative tutorial preparation (team and individual tasks) which will contribute towards preparation for the exam and the two coursework submissions during the year.

These sessions constitute an average time per level.

### Part 3: Assessment

The assessment strategy aims to build the knowledge and practice skills needed in the subject areas: Commercial Construction Technologies, Commercial Building Services Applications and Commercial Development Strategies and Economics to ensure the development of ready and able graduates.

Component A is a summative assessment comprised of a written assignment and a series of small portfolio exercises relating to technical and economic aspects of commercial development.

Component B is a written assignment relating to technical principles and construction concepts of multi-storey commercial developments.

First Sit Components	Final Assessment	Element weighting	Description
Portfolio - Component A	✓	50 %	Semester 2 submission (2,000 words)
Written Assignment - Component B		50 %	Semester 1 written coursework submission (3000 words)
Resit Components	Final Assessment	Element weighting	Description
Portfolio - Component A	✓	50 %	Semester 2 submission totalling 2,000 words.
Written Assignment - Component B		50 %	Semester 1 written coursework assignment (3000 words)

### Part 4: Teaching and Learning Methods

Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:	
	<b>Module Learning Outcomes</b>	<b>Reference</b>
	Appraise a case study building in terms of building elements, construction components and design strategies.	MO1
	Appraise a case study building in terms of building services installations and solutions	MO2
	Explain how good building design can support the business objective of an occupier and contribute to the notion of sustainable development	MO3
Select appropriate strategies for the design of specific elements of construction demonstrating the benefits of adopting an holistic and sustainable approach to building design	MO4	

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	Conduct a comprehensive appraisal of proposed options within a development proposal including an analysis of efficiencies across a range of financial parameters	MO5
	Interpret a client brief or technical scenario and present solutions in a comprehensive and professional manner	MO6
Contact Hours	<b>Independent Study Hours:</b>	
	Independent study/self-guided study	228
	<b>Total Independent Study Hours:</b>	228
	<b>Scheduled Learning and Teaching Hours:</b>	
	Face-to-face learning	72
	<b>Total Scheduled Learning and Teaching Hours:</b>	72
	<b>Hours to be allocated</b>	300
	<b>Allocated Hours</b>	300
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/ublmus-30-2.html">https://uwe.rl.talis.com/modules/ublmus-30-2.html</a></p>	

### Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Architectural Technology and Design [Sep][FT][Frenchay][3yrs] BSc (Hons) 2019-20

Building Surveying [Sep][FT][Frenchay][3yrs] BSc (Hons) 2019-20

Building Surveying [Sep][SW][Frenchay][4yrs] BSc (Hons) 2019-20

Architectural Technology and Design [Sep][SW][Frenchay][4yrs] BSc (Hons) 2019-20

Architectural Technology and Design {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19

Architectural Technology and Design {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19

Building Surveying {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19

Building Surveying {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2018-19