MODULE SPECIFICATION

Part 1: Information			
Module Title	Commercial Development		
Module Code	UBLMUS-30-2	Level	Level 5
For implementation from	2019-20		
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 2019-20		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Overview: 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.

Co-requisites: Relevant Professional Experience.

Educational Aims: 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.

Outline Syllabus: 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.

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.

72 hours engaged with essential reading in preparation for the exam.

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 demonstration and practical classes and workshops. The tutorials during the module will have different emphasis to help the students with the assimilation of knowledge. Some of the tutorials

will focus in developing the will application-based skills and general technical knowledge in preparation for the exam and others will guide the students to develop a small portfolio of exercises, mini-essays, analysis tasks and labs that explore different situations and scenarios related to building services 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 in the form of a 3 hour exam. The content relates to the technical principles and concepts of medium-rise and medium-span framed building design and will cover structure, building fabric, building envelope enclosure.

Component B is a summative assessment for the commercial building services, site development and design economics content for the module.

Students will be given a single case study project at the commencement of the module, and will undertake a series of tasks (specified in module guide) that take place throughout the year that demonstrate their understanding of how key contextual factors combine with intended design and technological choices to influence the overall viability and financial impact of a commercial office project.

Students will receive formative feedback on individual tasks as they complete them, and then will finally submit the completed portfolio that includes a unifying feasibility report at the end of the module. This gives students the ability to respond to feedback as the module progresses, and to fully explore aspects of the development and cost and analysis process.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Portfolio - Component B	✓	50 %	Commercial property development portfolio
Examination - Component A		50 %	Exam (with seen component): 3 Hours
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Portfolio - Component B	✓	50 %	Commercial property development portfolio
Examination - Component A		50 %	Exam (with seen component): 3 Hours

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
Describe a range of building elements, construction components and design strategies that combine in providing solutions to contemporary commercial development	MO1
Describe a range of building services installations and solutions that combine in providing solutions to contemporary commercial development	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
Conduct a comprehensive appraisal of proposed options within a development proposal including an analysis of efficiencies across a range of physical, financial and environmental parameters	MO5
Interpret a client brief or technical scenario and present solutions in a comprehensive and professional manner	MO6

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	228
Total Independent Study Hours:	228
Scheduled Learning and Teaching Hours:	
Face-to-face learning	72
Total Scheduled Learning and Teaching Hours:	72
Hours to be allocated	300
Allocated Hours	300

Reading List

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

https://uwe.rl.talis.com/modules/ublmus-30-2.html

Part 5: Contributes Towards
This module contributes towards the following programmes of study: Architectural Technology and Design [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19 Building Surveying [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19 Building Surveying [Sep][SW][Frenchay][4yrs] BSc (Hons) 2018-19 Architectural Technology and Design [Sep][SW][Frenchay][4yrs] BSc (Hons) 2018-19