Module Specification

Commercial Development

Version: 2022-23, v7.0, 26 Sep 2022

Contents

Part 1: Information

Module title: Commercial Development

Module code: UBLMUS-30-2

Level: Level 5

For implementation from: 2022-23

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Environment & Technology

Department: FET Dept of Architecture & Built Environ

Partner institutions: None

Delivery locations: Frenchay Campus

Field: Architecture and the Built Environment

Module type: Standard

Pre-requisites: Construction Technology and Services 2022-23

Excluded combinations: Commercial Development 2022-23

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body 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.

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.

Features: Not applicable

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: 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.

Part 3: Teaching and learning methods

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 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.

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

MO1 Appraise a case study building in terms of building elements, construction components and design strategies.

MO2 Appraise a case study building in terms of building services installations and solutions

MO3 Explain how good building design can support the business objective of an occupier and contribute to the notion of sustainable development

MO4 Select appropriate strategies for the design of specific elements of construction demonstrating the benefits of adopting an holistic and sustainable approach to building design

MO5 Conduct a comprehensive appraisal of proposed options within a development proposal including an analysis of efficiencies across a range of financial parameters

MO6 Interpret a client brief or technical scenario and present solutions in a comprehensive and professional manner

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ublmus-30-2.html

Part 4: Assessment

Assessment strategy: 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 Semester 2 assessment comprising a series of exercise tasks undertaken as a group and submitted as a group presentation.

Component B comprises two summative assessments taken in Semester 1. Element B1 is a written assignment relating to technical principles and construction concepts of multi-storey commercial developments. Element B2 is a series of online quizzes testing knowledge on mechanical and electrical building services installations. The online quizzes and written assignment will be supported by formative tutorial tasks to be set and discussed during the tutorial sessions.

Assessment components:

Presentation - Component A (First Sit)
Description: Semester 2 Live presentation (group work) 25 mins
Weighting: 50 %
Final assessment: Yes
Group work: Yes
Learning outcomes tested: MO3, MO5, MO6

Written Assignment - Component B (First Sit)
Description: Semester 1 written coursework submission (1,500 words indicative)
Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO1, MO4, MO6

Examination (Online) - Component B (First Sit)
Description: Online Quizzes distributed in Semester 2 covering the Learning Outcomes (1 hour)
Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO2, MO4

Presentation - Component A (Resit)

Description: Semester 2 submission.
Online presentation (25 mins)
Weighting: 50 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO3, MO5, MO6

Written Assignment - Component B (Resit)
Description: Semester 1 written coursework assignment (1500 words indicative)
Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO1, MO4, MO6

Examination (Online) - Component B (Resit)
Description: Online Quizzes covering the Learning Outcomes (1 hour)
Weighting: 25 %
Final assessment: No
Group work: No
Learning outcomes tested: MO2, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Building Surveying [Sep][SW][Frenchay][4yrs] BSc (Hons) 2021-22

Building Surveying [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Architectural Technology and Design [Sep][FT][Frenchay][3yrs] BSc (Hons) 2021-22

Architectural Technology and Design [Sep][SW][Frenchay][4yrs] BSc (Hons) 2021-22

Building Surveying {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2020-21

Building Surveying {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Architectural Technology and Design {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2020-21

Architectural Technology and Design {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Architectural Technology and Design {Foundation} [Oct][FT][GCET][4yrs] BSc (Hons) 2020-21

Architectural Technology and Design {Foundation} [Feb][FT][GCET][4yrs] BSc (Hons) 2020-21

Building Surveying [Sep][PT][Frenchay][5yrs] BSc (Hons) 2019-20

Building Surveying {Apprenticeship-UWE} [Sep][FT][Frenchay][5yrs] BSc (Hons) 2019-20

Architectural Technology and Design [Sep][PT][Frenchay][5yrs] BSc (Hons) 2019-20