



Module Specification

Innovation and Professionalism

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Part 1: Information

Module title: Innovation and Professionalism

Module code: UBLMP5-15-3

Level: Level 6

For implementation from: 2021-22

UWE credit rating: 15

ECTS credit rating: 7.5

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: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: The precise content of the syllabus will reflect current developments and debates in the quantity surveying profession including some of

the following:

Facilities Management

Occupation costs; maintenance and occupation costs related to function, performance and specification; built asset management; obsolescence, rehabilitation and refurbishment; life cycle costing; data requirements and availability; uncertainty and errors in forecasting.

Risk and Uncertainty

Uncertainty in estimating data; accuracy in forecasting; ability to predict lowest tender; deterministic and probabilistic estimating; improving the quality of estimates; qualitative and quantitative risk assessment; contingency and risk allowances and sensitivity analysis.

Value Optimisation

Using cost modelling and analytics of data to add value; value management; value engineering; value analysis; cost benefit analysis; developments in procurement; effect of taxation and capital allowances; examples in the context of project evaluation and , sustainable construction including embodied carbon assessment.

Whole Life (Cycle) Costing

Data requirements and availability; uncertainty and errors in forecasting; occupation costs; maintenance and occupation costs related to function, performance and specification; facilities management; obsolescence, rehabilitation and refurbishment.

Health & Safety

The scope for Quantity Surveyors to influence Health & Safety and Occupational Health through all stages of the construction process

Technology Applications

Technological and computer applications for enhancing the efficiency of the construction industry through the RIBA Stages by the use of modelling techniques and innovation

Ethics will be considered thematically through relevant areas of the module

Part 3: Teaching and learning methods

Teaching and learning methods: Learning approaches will comprise:

Lectures in all topic areas regularly supported by specialist speakers and practitioners.

Workshops with supporting reading designed to encourage students to develop their knowledge of the theories explained in the lectures and their application in practice.

Computer based workshops to enable to develop an understanding of a range of cost modelling techniques and the development of relevant IT skills competence to support their practical application.

Materials will be available on Blackboard to support the module content with reference materials, exercises and related commentaries and video clips.

Scheduled learning includes lectures, seminars, tutorials, practical classes and supported workshops

Independent learning includes hours engaged with essential reading, case study preparation, assignment preparation and completion etc. These sessions constitute an average time per level as indicated below.

Activity (hrs)

Contact time (36)

Assimilation and development of knowledge (84)

Exam preparation (30)

Total study time (150)

Module Learning outcomes:

MO1 Identify and critically examine key current developments impacting on the construction industry and quantity surveying profession which determine the value and broader commercial success of construction

MO2 Evaluate the techniques used to evaluate and optimise construction project designs and property development proposals in terms of total project costs, whole life costs and carbon emissions accounting

MO3 Critically reflect on the practical application of new technologies in the construction industry, focusing on exploration and critically evaluation of the impact Building Information Management (BIM).

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ublmp5-15-3.html) via the following link <https://uwe.rl.talis.com/modules/ublmp5-15-3.html>

Part 4: Assessment

Assessment strategy: As a level 3 module it is expected that students gain a deep understanding of the content of the module supported by current research and an appreciation of how quantity surveying services are applied in industry.

The assessment comprises two elements: a reflective report on supported practical learning that takes place during tutorials and a summative assessment which takes the form of a 24 hour seen Written Assignment. No less than a week prior to the commencement time a question bank, from which the questions on the seen examination paper will be taken will be published. These two approaches have been

selected for their complimentary nature and their ability to bring out different academic skill in the student. As a level 3 module there is ample opportunity to reflect on the emerging threads from this module and the ability to synthesise this with earlier learning. The format lends itself to the student making new connections with existing knowledge which should embed the learning as they prepare for leaving the university and/or potentially going on to further study.

For each subject that is covered in the lectures and applied in the exercises in the tutorials the students will be expected to do the appropriate background reading prior to the tutorial. During tutorials formative assessment discussions will take place to facilitate the student's deep understanding. It is also expected that the students will engage with the IT 'models' created for the module which are designed to develop an appreciation of the application of BIM tools.

Assessment components:

Written Assignment - Component A (First Sit)

Description: Written assignment (2000 words)

24 hour seen assignment

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Report - Component B (First Sit)

Description: Report (1000 word equivalent)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3

Written Assignment - Component A (Resit)

Description: Written assignment (2000 words)

24 hour seen assignment

Weighting: 75 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Report - Component B (Resit)

Description: Report (1000 word equivalent)

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Quantity Surveying and Commercial Management [Sep][FT][Frenchay][3yrs] BSc (Hons) 2019-20

Quantity Surveying and Commercial Management [Sep][SW][Frenchay][4yrs] BSc (Hons) 2018-19

Quantity Surveying and Commercial Management {Apprenticeship-UWE} [Sep][FT][Frenchay][5yrs] BSc (Hons) 2018-19

Quantity Surveying and Commercial Management {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2018-19

Quantity Surveying and Commercial Management [Sep][PT][Frenchay][5yrs] BSc (Hons) 2018-19