



Module Specification

International Cost Management

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Part 1: Information

Module title: International Cost Management

Module code: UBLLXW-30-3

Level: Level 6

For implementation from: 2023-24

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: Not in use for Modules

Field: CONSTRUCTION AND PROPERTY

Module type: Module

Pre-requisites: QS Project 2023-24

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Module Entry Requirements : For the Graduate Diploma QS, approved Pre-Enrolment Learning OR for the MSc QS, a cognate first degree

Educational aims: The International Cost Management module aims to:

Integrate the core quantity surveying studies in a project learning context

Develop cost planning skills and methods to evaluate the business case and strategic options for construction projects

Add breadth and depth to students' expertise in measuring and costing complex construction works , including building services and civil engineering works

Introduce a European / international dimension to level 3 studies

In addition to Learning Outcomes, the educational experience may explore, develop, and practise, but not formally discretely assess, the following:

Negotiating a personal brief, within in a team context

Working as a team member

Higher level personal project management skills, with minimum supervision, good self-motivation and self-reliance

Outline syllabus: Part 1:

The content in the first half of the module will be structured around project-based learning through a focus on a major European development project, which contains a mix of building types, including commercial and residential, with civil engineering infrastructure works, and which is at an early stage of feasibility assessment with a minimum of firm details. Based on an outline design proposal, students will research and prepare a detailed project report, assessing the business case for the project, and use this to examine a number of strategic options, which will require application of knowledge of value and risk management, whole life costing in spreadsheet models. Much of the research will be based on a large urban area (such as Bristol), but supplemented by local information gathered from the Study Visit.

The project report will be completed during the first half of the module and will be

submitted online as an indexed digital folder. The individual presentation will take place in the assessment period.

Part 2:

Having established the relevance of infrastructure costs to the viability of the whole development in the first task, the second half of the module involves a more detailed investigation focusing on the subjects of civil engineering and key cost drivers on large projects, including:

Design evaluation and budgeting; procurement routes and appropriate work breakdown for cost planning, tendering and cost management

Measurement and costing of civil engineering works: including substructure, bridges, roadworks and carriageways, bridges, storage reservoir and tunneling.

This will fill the knowledge gap and enable students to take a holistic view of the construction industry, consider the cost significance of the various factors and manage the information and the costs in a more strategic way.

Relative costs and how they arise will be explored through the measurement and pricing of these works so that rules of measurement can be compared and related to the optimum method of procurement. Various methods of measurement will be required, together with access to pricing information via the Internet, price books, journals, etc.

Part 3: Teaching and learning methods

Teaching and learning methods: Contact time: 72 hours

Assimilation and development of knowledge: 148 hours

Coursework preparation: 80 hours

Total study time: 300 hours

The module uses lectures for project briefing and introducing new content, with input from visiting speakers, supported by a programme of regular tutorials to facilitate and review progress and discuss issues or present reports. There is substantial use of Blackboard to deliver and facilitate access to project resources and learning materials.

In the first part of the module, the learning approach is essentially one of project-base learning, with an emphasis on team work. Students will also be invited to negotiate details of their submission, division of work between team members, assessment and allocation of final marks between team members. Attendance at groupwork tutorials will be monitored.

Blackboard will be used extensively to support the delivery of this module, with all teaching support material provided digitally through the module website. Lecture notes will normally be posted before a lecture and any revisions notified through Announcements. Part of the semester 1 studies require groupwork and you should familiarise yourself with the group collaboration facility to Blackboard.

A number of measurement exercises will be provided in the second half of the module in preparation for the end-of-session examination; practice is essential to develop confidence for the exam and enables tutors to provide formative feedback before the summative assessment.

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

MO1 Research, analyse data and apply appropriate methods to the strategic evaluation and optimisation of the commercial viability, value for money and whole life cost of major construction projects, which are characterised by complexity and uncertainty

MO2 Apply relevant and appropriate methods to quantify the cost significant resources of large complex projects, including building, civils and services

engineering works, at various stages of the cost planning process and be able to apply to this process and critically evaluate alternative international methods of measurement, including SMM7, NRM, CESMM and POMI

MO3 Identify and evaluate the impact of European / international, sustainable construction and Building Information Modelling factors on the above

MO4 Demonstrate their ability in researching, analysing, synthesising and evaluating complex data, and presenting conclusions, as a competent professional report in both paper and digital format

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](https://uwe.rl.talis.com/modules/ubllxw-30-3.html) via the following link <https://uwe.rl.talis.com/modules/ubllxw-30-3.html>

Part 4: Assessment

Assessment strategy: The Assessment:

Portfolio (4500 words) - comprises a range of coursework such as presentation, group work based on a business case study report, which is linked to and associated with a European study visit during the first half of the module.

The business case study is assessed as groupwork with monitoring of student attendance at groupwork tutorials and provision for adjustment of the element grade where an unequal contribution between group members is identified.

The resit strategy is Case Study coursework and discussion feedback (4500 words).

The examination is a 4-hour online examination at the end of the module comprising 100% measurement of civil engineering works.

The resit strategy for this assessment task is the same as the first sit.

Assessment components:

Portfolio (First Sit)

Description: Case Study coursework and discussion feedback (4500 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4

Examination (Online) (First Sit)

Description: Online Exam (4 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2

Portfolio (Resit)

Description: Case Study coursework and discussion feedback (4500 words)

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4

Examination (Online) (Resit)

Description: Online Exam (4 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Quantity Surveying [Frenchay] MSc 2023-24

Quantity Surveying [Frenchay] MSc 2023-24

Quantity Surveying [Frenchay] GradDip 2023-24

Quantity Surveying and Commercial Management
[Feb][FT][AustonSingapore][18months] BSc (Hons) 2022-23

Quantity Surveying and Commercial Management
[May][FT][AustonSingapore][18months] BSc (Hons) 2022-23

Quantity Surveying and Commercial Management
[Sep][FT][AustonSingapore][18months] BSc (Hons) 2022-23

Quantity Surveying [Frenchay] GradDip 2022-23

Quantity Surveying and Commercial Management [AustonSingapore] BSc (Hons)
2022-23

Quantity Surveying and Commercial Management [BIET] BSc (Hons) 2022-23

Quantity Surveying and Commercial Management [Sep][FT][Frenchay][3yrs] BSc
(Hons) 2021-22

Quantity Surveying and Commercial Management [Sep][SW][Frenchay][4yrs] BSc
(Hons) 2020-21

Quantity Surveying and Commercial Management {Foundation}
[Sep][FT][Frenchay][4yrs] BSc (Hons) 2020-21

Quantity Surveying and Commercial Management [Sep][PT][Frenchay][5yrs] BSc
(Hons) 2019-20

Quantity Surveying and Commercial Management
{Foundation}[Sep][SW][Frenchay][5yrs] BSc (Hons) 2019-20

Quantity Surveying and Commercial Management {Apprenticeship-UWE}

[Sep][FT][Frenchay][5yrs] BSc (Hons) 2019-20