

Liverpool John Moores University

Title: MEASUREMENT & COSTING STUDIES 2
Status: Definitive
Code: **5117BEUG** (118129)
Version Start Date: 01-08-2019

Owning School/Faculty: Built Environment
Teaching School/Faculty: Built Environment

Team	Leader
Tom Dowd	Y
Mohan Siriwardena	
Wilfred Matipa	
Dianne Marsh	
James Hartwell	

Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 72

Total Learning Hours: 240 **Private Study:** 168

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24
Workshop	48

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Technology	AS1	Technology 1	40	
Technology	AS2	Technology 2	30	
Report	AS3	Report	30	

Aims

To refine and extend abilities in the measurement and quantification of building and civil works and to investigate post contract quantity surveying procedures in relation

to valuations, variations and final accounts.

Learning Outcomes

After completing the module the student should be able to:

- 1 Apply the rules of the standard method of measurement to prepare project documentation for complex and varied construction and civil engineering projects.
- 2 Apply skills in the use of quantitative instruments, including the standard method and rules of measurement, cost analyses and pricing books; to measure, cost estimate, cost plan and price quantities in accordance with the conventions of professional practice.
- 3 Identify and analyse construction activities and resources used and calculate corresponding costs.
- 4 Evaluate and use Information Technology and appropriate software packages in the preparation of project documentation.
- 5 Identify post contract administration procedures in relation to construction contracts.
- 6 Work effectively and professionally with others in the context of a simulated scenario.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

TECHNOLOGY 1	1	2
TECHNOLOGY 2	3	4
Report	5	6

Outline Syllabus

The measurement and quantification of building works for both complex buildings and civil engineering works. Buildings will be considered in relation to complex foundations, frames and finishing's. Civil Engineering works will consist of earthwork retention, roads and external works and drainage. The calculation of costs from first principles to enable a tender document to be priced, Pricing up Preliminaries and other contractual matters. Using software to produce and price Bills of quantities. The development of post contract quantity surveying procedures in relation to valuations, variations, fluctuations and final accounts.

Learning Activities

Lectures and workshops.

Notes

This module provides a mechanism for students to extend and develop abilities in the quantification of building work of a more complex nature in an industrial and commercial setting. It allows for the identification and analysis of construction activities and the resources used as well as the calculation of corresponding costs. Post contract administration procedures will be considered in the context of valuation and measurement. The module will be delivered with the emphasis on workshops to support the learning experience.