

Liverpool John Moores University

Title: MEASUREMENT AND COSTING
Status: Definitive
Code: **4212BEUG** (122641)
Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment
Teaching School/Faculty: Civil Engineering and Built Environment

Team	Leader
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Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 50
Total Learning Hours: 200 **Private Study:** 150

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	20
Workshop	30

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Technology	AS1	TAKE OFF QUANTITIES	50	
Report	AS2	REPORT	50	

Aims

To establish the principles and conventions for the quantification and costing of domestic construction works and associated infrastructure.

Learning Outcomes

After completing the module the student should be able to:

- 1 Measure low rise domestic buildings using various industry standard guidelines and documentation .
- 2 Produce approximate estimates for construction projects using various information sources.
- 3 Price Bill of Quantity items from the first principle.
- 4 Use Information Technology and appropriate software packages to produce and price project documentation to a professional standard

Learning Outcomes of Assessments

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

TAKE OFF QUANTITIES	1	2	3
REPORT	1	3	4

Outline Syllabus

- *Introduction to standard measurement conventions, guidelines and documentation.*
- *Measurement skills, writing the dimensions, calculating simple areas and volumes pertaining to built assets.*
- *Measurement of buildings*
- *Pre-tender estimating*
- *Explain the factors affecting construction costs and pricing of labour, plant and materials.*
- *Prepare Bill of Quantities for domestic building elements and price them*
- *Introduce software packages to building measurement, documentation and costing.*

Learning Activities

- Lectures and tutorial workshops, supported where possible with site visits, guest lectures, videos and webinar.
- Students should supplement their lecture notes with background reading; journals, digests, trade literature and also use the material that is available through electronic databases and manufacturers.
- Formative assessment with ongoing feedback throughout the module.

Notes

The module establishes the principles and conventions for the quantification and costing of building works and considers their application by the Quantity Surveyor and the Estimator, as part of their key role in the economic and financial

management of the construction process.