

## Measurement and Costing

### Module Information

2022.01, Approved

#### Summary Information

Module Code	4212BEUG
Formal Module Title	Measurement and Costing
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

#### Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

#### Learning Methods

Learning Method Type	Hours
Lecture	20
Workshop	30

#### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

#### Aims and Outcomes

Aims	To establish the principles and conventions for the quantification and costing of domestic construction works and associated infrastructure.
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**After completing the module the student should be able to:**

## Learning Outcomes

Code	Number	Description
MLO1	1	Measure low rise domestic buildings using various industry standard guidelines and documentation .
MLO2	2	Produce approximate estimates for construction projects using various information sources.
MLO3	3	Price Bill of Quantity items from the first principle.
MLO4	4	Use Information Technology and appropriate software packages to produce and price project documentation to a professional standard

## Module Content

Outline Syllabus	<ul style="list-style-type: none"> <li>• Introduction to standard measurement conventions, guidelines and documentation.</li> <li>• Measurement skills, writing the dimensions, calculating simple areas and volumes pertaining to built assets.</li> <li>• Measurement of buildings</li> <li>• Pre-tender estimating</li> <li>• Explain the factors affecting construction costs and pricing of labour, plant and materials.</li> <li>• Prepare Bill of Quantities for domestic building elements and price them</li> <li>• Introduce software packages to building measurement, documentation and costing.</li> </ul>
Module Overview	This 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.
Additional Information	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. In this module, the knowledge learning outcomes are K14, the behaviours learning outcomes are B1 and the skills learning outcomes are S1, S5 and S10.

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	TAKE OFF QUANTITIES	50	0	MLO1, MLO2, MLO3
Report	Report	50	0	MLO1, MLO3, MLO4

## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Femi Olubodun	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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