

## Measurement and Costing

### Module Information

2022.01, Approved

#### Summary Information

Module Code	4540BEKL
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
LJMU Partner Taught

#### Partner Teaching Institution

Institution Name
International College IMPERIA

#### Learning Methods

Learning Method Type	Hours
Lecture	28
Workshop	42

#### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks
SEP-PAR	PAR	September	12 Weeks

SEP_NS-PAR	PAR	September (Non-standard start date)	12 Weeks
------------	-----	-------------------------------------	----------

## Aims and Outcomes

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

**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
MLO5	5	To identify and reflect upon the following aspects of self-awareness in respect of personal development and career planning: strengths and weaknesses, motivations and values, ability to work with others.

## 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	
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.

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	TAKE OFF QUANTITIES	50	0	MLO1, MLO2, MLO3
Exam	Examination	40	2	MLO1, MLO3, MLO4, MLO5
Reflection	REFLECTIVE STATEMENT	10	0	MLO5

## 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
--------------	--------------------------	-----------