

Liverpool John Moores University

Title: MEASUREMENT & COSTING STUDIES 2
Status: Definitive
Code: **5517UGIM** (118720)
Version Start Date: 01-08-2011

Owning School/Faculty: Built Environment
Teaching School/Faculty: Isle of Man College

Team	Leader
Mohd Nazali Mohd Noor	

Academic Level: FHEQ5
Credit Value: 24.00
Total Delivered Hours: 72.00
Total Learning Hours: 240
Private Study: 168

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24.000
Workshop	48.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Technology	AS1		40.0	
Technology	AS2		30.0	
Presentation	AS3		30.0	

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
PRESENTATION	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.

References

Course Material	Book
Author	I. H. Seeley & G. P. Murray
Publishing Year	2001
Title	Civil Engineering Quantities

Subtitle	
Edition	6th
Publisher	Palgrave Macmillan
ISBN	0333800745

Course Material	Book
Author	Construction Confederation
Publishing Year	2000
Title	Standard Method of Measurement 7 Measurement Code
Subtitle	
Edition	
Publisher	RICS
ISBN	0854063617

Course Material	Book
Author	P. Keily & P. McNamara
Publishing Year	2005
Title	SMM7 Explained and Illustrated
Subtitle	
Edition	
Publisher	RICS
ISBN	1842191381

Course Material	Book
Author	J. Davidson & P. Hambleton
Publishing Year	2006
Title	SMM7 Questions and Answers
Subtitle	
Edition	
Publisher	RICS
ISBN	9781842192280

Course Material	Book
Author	CIOB
Publishing Year	2009
Title	Code of Estimating Practice
Subtitle	
Edition	7th
Publisher	Wiley-Blackwell
ISBN	9781405129718

Course Material	Book
Author	B. Martin
Publishing Year	2008
Title	Estimating and Tendering for Construction Work
Subtitle	
Edition	4th

Publisher	Butterworth Heinemann
ISBN	9780750686167

Course Material	Book
Author	R. J. Wheeler & A. Clark
Publishing Year	1992
Title	Building Quantities: Worked Examples
Subtitle	
Edition	
Publisher	Butterworth Heinemann
ISBN	07050602805

Course Material	Book
Author	B. J. D. Spain
Publishing Year	1992
Title	CESMM3 Explained
Subtitle	
Edition	
Publisher	Taylor & Francis
ISBN	0419177000

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.