

Liverpool John Moores University

Title: ADVANCED MEASUREMENT AND COSTING
Status: Definitive
Code: **5011BEUG** (102757)
Version Start Date: 01-08-2011

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

Team	Leader
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Academic Level: FHEQ5
Credit Value: 12.00
Total Delivered Hours: 36.00
Total Learning Hours: 120
Private Study: 84

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	12.000
Tutorial	12.000
Workshop	12.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	coursework	25.0	
Report	AS2	coursework	25.0	
Test	AS3	in class assessment	50.0	

Aims

To refine and extend abilities in the measurement and quantification of building works.

To develop a critical awareness of the cost implications of resource allocation in construction procurement.

To develop competencies in the preparation of project documentation for

construction projects in the pre contract stage.

To develop analytical and problem solving skills as a member of a team in relation to realistic scenarios.

To investigate the implementation of appropriate software packages in the preparation of project documentation.

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 projects.
- 2 Apply skills in the use of quantitative instruments, including the standard method 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 the use of Information Technology and appropriate software packages in the preparation of project documentation.
- 5 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:

REPORT	1	5
REPORT	4	
TEST	2	3

Outline Syllabus

The module reviews and evaluates systems and solutions relating to design cost management, contractual and tendering arrangements and documentation for construction projects in the pre and post contract stages. It provides students with a critical awareness of the cost implications of resource allocation in construction procurement, and the factors involved in the identification and pricing of construction work.

Learning Activities

Lectures, tutorials and workshops.

References

Course Material	Book
Author	RICS
Publishing Year	1998
Title	Standard Method of Measurement
Subtitle	
Edition	
Publisher	RICS
ISBN	0 85406 360 9

Course Material	Book
Author	CIOB
Publishing Year	2007
Title	Code of Estimating Practice
Subtitle	
Edition	
Publisher	Ascot, Chartered Institute of Building
ISBN	1405129719

Course Material	Book
Author	Smith, R.C.
Publishing Year	1986
Title	Estimating and Tendering for Building Works
Subtitle	
Edition	
Publisher	London, Longman
ISBN	0582411734

Course Material	Book
Author	Seeley, I.H.
Publishing Year	1999
Title	Advanced Building Quantities
Subtitle	
Edition	
Publisher	Macmillan
ISBN	0333485424

Course Material	Book
Author	Wheeler and Clarke
Publishing Year	1995
Title	Building Quantities and Examples
Subtitle	
Edition	
Publisher	Newnes

ISBN	0750602805
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Course Material	Book
Author	Seeley, I.H.
Publishing Year	2001
Title	Civil Engineering Quantities
Subtitle	
Edition	
Publisher	Macmillan
ISBN	0333800745

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 and the calculation of corresponding costs. The module will be delivered with the emphasis on tutorials and workshops to support the learning experience.