

## Liverpool John Moores University

Title: ADVANCED MEASUREMENT AND COSTING  
Status: Definitive  
Code: **5042BEUG** (107248)  
Version Start Date: 01-08-2011

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

Team	Leader
John Gammon	Y

**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

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

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

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

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

<b>Course Material</b>	Book
<b>Author</b>	Wheeler and Clarke
<b>Publishing Year</b>	1995
<b>Title</b>	Building Quantities and Examples
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Newnes
<b>ISBN</b>	0750602805

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

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### **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.