

UNIVERSITI TEKNOLOGI MARA BCM453: BUILDERS QUANTITIES AND ESTIMATING II

Boiliton Bollberto Coattinies and Estimatino			
Course Name	BUILDERS QUANTITIES AND ESTIMATING II	APPROVED	

(Eligiisii)	
Course Code	BCM453

MQF Credit	3

·	This course provides in-depth understanding and ability to measure and estimate for building works. The measurement part will comprise the principles of measurement for doors, windows, roof and finishes and mechanical and electrical services. The estimating part covers wood works, steel works, roofing, plastering, finishes, painting,
	glazing work, mechanical and electrical services, preliminaries, prime cost, provisional sum and pro rata.

Measuring and costing skill Estimating Skill
Information Management skill

Teaching Methodologies	Lectures, Tutorial

CLO1 Measure quantities from drawings and site measurement
CLO2 Compute quantities from drawings and site measurement CLO3 Apply methods of estimating to obtain accurate estimates for building trades

Pre-Requisite Courses	No course recommendations

Topics

1. Overview

- 1.1) Understanding the nature and significance of quantity surveying in tendering documents.
- 1.2) Understand the principles and uses of the SMM.
- 1.3) Interpreting drawings.
- 1.4) Abstracting quantities.

2. Measurement

- 2.1) Measurement of doors
- 2.2) Measurement of windows
- 2.3) Measurement of roof
- 2.4) Measurement of floor finishes 2.5) Measurement of wall finishes 2.6) Measurement of ceiling

- 2.7) Measurement of painting2.8) Measurement of mechanical and electrical works: water supply and sanitary fittings, soil & waste pipe, electrical & air conditioning

3. Building up rates and quantifying of materials for: 3.1) Woodwork 3.2) Steelwork 3.3) Roofing: trusses, covering & drainage

- 3.4) Plastering
- 3.5) Finishes : wall & floor
- 3.6) Painting 3.7) Glazier
- 3.8) Mechanical and electrical works: water supply and sanitary fittings, soil and waste pipe, electrical and air-conditioning.

4. Preliminaries

- 4.1) 1. Definition
- 4.2) 2. Items to be Priced 4.3) 3. Calculation for preliminaries items
- 4.4) 4. Factors that influenced the costs

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- 5. Prime Cost and Provisional Sum5.1) 1. Definition5.2) 2. Relationship between the respective parties

6. Pro Rata 6.1) 1. Definition

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Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	n/a	25%	CLO2
	Assignment	n/a	25%	CLO3

Reading List	Recommended Text Ashworth, A, 2007, Willis's Practice and Procedure For The Quantity Surveying, 12th Edition, 12 Ed. Oberlender, G 2002, Estimating Construction Costs Atton,W 1992, Estimating Applied for Building, 5th Ed., Godwin Seeley,I.H 1988, Building Quantities Explained, 4th Ed., Macmillan London	
Article/Paper List	This Course does not have any article/paper resources	
Other References	book Abdullah,A.,A.Rashid 2003, Pengukuran Kuantiti Bangunan, Prentice Hall, Malaysia book Ashwoth,A 2007, Willi's Practice and Procedure for the Quantitiy Surveying book Peurifory, Robert L,Oberlender, Garold D 2002, Estimating for Building & Civil Engineering, Butterworth Heinemann book Seeley, Ivor H 1997, Quantitiy Surveying Practice	

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Start Year : 2016

Review Year : 2017