

## **UNIVERSITI TEKNOLOGI MARA**

## **BCT593: BUILDING MEASUREMENT & ESTIMATING**

Course Name (English)	BUILDING MEASUREMENT & ESTIMATING APPROVED			
Course Code	BCT593			
MQF Credit	2			
Course Description	The general aim of this course is to introduce the principles of measurement, description of items, the interpretation and the understanding of Standard Method of measurement of Building Works (SMM) and the documentation use in tendering. The second part, which is estimating introduces the tendering process, contract system and the different methods of estimating and focuses on the process of building unit rates of the building trades.			
Transferable Skills	skill in measuring and estimating			
Teaching Methodologies	Lectures, Tutorial			
CLO	CLO1 Apply various types of tender and estimating methods of construction works CLO2 Estimate the quantities and cost of construction works. CLO3 Display good numerical skills for measurement and estimation of construction works			
Pre-Requisite Courses	No course recommendations			
Topics				
1.1) 1.1 To understar	to Construction Measurement and the purposes of construction measurement of building works. Avarious types of document use. i.e drawings, schedules, specif			
2. 2.0 Building Measurement 2.1) 2.1 Work Below Lowest Floor Finished (Pad) 2.2) 2.2 Roof				
3. 3.0 Introduction to Construction Cost Estimating 3.1) 3.1 Interpretation and importance of estimating, the parties involved and roles of an estimator				
4. 4.0 Contract and Tender, Tendering Process 4.1) 4.1 Types of Tender and Contract 4.2) 4.2 Pre and Post Tender				
5. 5.0 Method of Est 5.1) 5.1 Floor Area M 5.2) 5.2 Cubic Metho 5.3) 5.3 Unit Method 5.4) 5.4 Approximate 5.5) 5.5 Storey Enclo	Method Tool of the Common of t			
6. 6.0 Building Up rate 6.1) 6.1 Machineries and plant 6.2) 6.2 Excavation work 6.3) 6.3 Concrete work 6.4) 6.4 Formwork 6.5) 6.4 Roof Finishes 6.6) 6.5 Reinforcement				

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Start Year : 2019

Review Year : 2018

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment				
	Assessment Type	Assessment Description	% of Total Mark	CLO
	Practical	Measurement	30%	CLO3
	Writing Test	Tender & contract	10%	CLO1
	Writing Test	Estimating	10%	CLO2

Deading List	Decemberded		
Reading List	Recommended   Text	Atton, W. 1992, Estimating Applied for Building, Godwin	
		Geddes, S. 1996, <i>Estimating for Building &amp; Civil Engineering</i> , Butterworth Heinemann	
	1	Hassan, S., D. 2011, <i>Measurement of Civil Engineering Works</i> , UPENA Shah Alam, Malaysia	
	1	Abdullah, A., A. Rashid, K. 2003, <i>Pengukuran Kuantiti</i> <i>Bangunan</i> , Pearson Prentice Hall.	
	1	Abdullah, A. 2006, <i>Anggaran Kos Kerja Bangunan</i> , Edisi Kedua Ed., Pearson Prentice Hall	
	1	Greenhalgh, B., & Squires, G. 2011, Introduction to Building Procurement, Spon Press	
		Sandra Lee, William Trench and Andrew Willis 2012, <i>Willis's Element of Quantity Surveying</i> , 11th Ed., Wiley Blackwell West Sussex, UK	
		Sabariah Haji Hassan 2011, <i>Measurement of Civil Engineering</i> <i>Work Based on the Malaysian CESMM</i> , 2011 Ed., UPENA, UiTM Shah Alam Malaysia	
		Mastura Jaafar, Lim Yoke Mui, Izhan Yahaya 2017, <i>Elementary Estimating For Building Works</i> , PENERBIT UNIVERSITI SAINS MALAYSIA Malaysia [ISBN: 978-983-861-6]	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

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