



UNIVERSITI TEKNOLOGI MARA

BCM683: MEASUREMENT OF CONSTRUCTION WORKS II

Course Name (English)	MEASUREMENT OF CONSTRUCTION WORKS II APPROVED
Course Code	BCM683
MQF Credit	3
Course Description	The course is designed to provide a thorough understanding of the theory and practice in the measurement of construction works for piling, basement, external works and external mechanical and electrical works with reference to the Standard Method of Measurement of building works (SMM). students will be guided on the preparation and drafting of preliminaries items, prime cost sum and provisional sum.
Transferable Skills	Measuring and costing skill Estimating skill Tendering skill Problem-solving skill
Teaching Methodologies	Lectures, Tutorial
CLO	CLO1 Prepare quantities for measurement of construction works CLO2 Display good numeracy skill for measurement of construction works CLO3 Practice curation of information in preparing Bill of Quantities for construction works
Pre-Requisite Courses	No course recommendations
Topics	
1. Measurement 1.1) Piling 1.2) Basement 1.3) External Works such as fencing and gates, turfing, landscape etc 1.4) External Mechanical and Electrical services such as electrical cabling and substation, telecommunication lines and manholes, gas piping etc	
2. Preliminaries 2.1) Preparation and drafting of preliminary items	
3. Prime cost sum and provisional sum 3.1) Understanding and compilation of prime cost and provisional sum	
4. Bills of Quantities and Tender Document 4.1) Preparation of Bills of Quantities and Tender Documents	

Assessment Breakdown	%
Continuous Assessment	50.00%
Final Assessment	50.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Students required to adopt the principle of measurement based on construction drawing given. Numeracy skill will be assessed.	25%	CLO2
	Assignment	Students required to prepare Bill of Quantities based on measurement quantities.	25%	CLO3

Reading List	This Course does not have any book resources
Article/Paper List	This Course does not have any article/paper resources
Other References	<ul style="list-style-type: none"> • n/a Ashworth, A 2007, <i>Willis's practice and procedure for the quantity Surveying</i> • n/a Abdullah, A.,A.Rashid,K., 2003, <i>Pegukuran Kuantiti Bangunan</i> • n/a The Institution of Surveyors Malaysia 2000, <i>Malaysian Standard Method of Measurement of Building Works</i>