



UNIVERSITI TEKNOLOGI MARA

BCM613: MEASUREMENT OF CONSTRUCTION WORKS I

Course Name (English)	MEASUREMENT OF CONSTRUCTION WORKS I APPROVED
Course Code	BCM613
MQF Credit	3
Course Description	The course is designed to provide a through understanding of the theory and practice in th measurement of construction works for precast concrete structures, steel structures, timber structures, block works and renovation/alteration works with reference to the standard method of measurement of Building works (SMM). Students will be guided on the preparation of schedules and draft bills of the measured. Students will further be taught to the preparation of specification clauses for materials and workmanship of the measured works
Transferable Skills	Advance measurement skill Tendering Skill Construction technology 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) Precast concrete structures 1.2) Steel structures 1.3) Timber structures 1.4) Block works 1.5) Renovation/alteration works 1.6) Computer aided measurement	
2. Schedules 2.1) Preparation and uses of schedules for the purposes of measurement	
3. Prepare draft bills for work measured 3.1) preparation of draft bills for the works covered in the topics of measurement	

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	Recommended Text	<ul style="list-style-type: none"> • Ashworth.A 2007, <i>Willi's Practice and Procedure For the Quantity Surveyor</i> • Abdullah A, A. Rashid.K 2003, <i>Pengukuran Kuantiti Bangunan</i> • Oberlender, G 2002, <i>Estimating Construction Costs</i> • The Institution of Surveyors, Malaysia 2000, <i>Malaysian Standard Method of Measurement of Building Works Second Edition, 2 Ed.</i>, Royal Institution of Surveyor Malaysia
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	