



UNIVERSITI TEKNOLOGI MARA

BSS512: COSTING AND ESTIMATING I

Course Name (English)	COSTING AND ESTIMATING I APPROVED
Course Code	BSS512
MQF Credit	3
Course Description	This subject aims to provide a study of development economics including investment market and property development, preparations of feasibility studies, and the influence of government policies. It provides an understanding of the theory and practice in the measurement of construction works for wall, plumbing works, doors, and windows with reference to the Standard Method of Measurement of Building Works (SMM2). The subject also provides the students with a thorough understanding of the theory and analysis of prices including specification writing for the measured work.
Transferable Skills	measurement and costing
Teaching Methodologies	Lectures, Tutorial
CLO	<p>CLO1 Evaluate the cost implication of pre-tender design decisions and feasibility studies.</p> <p>CLO2 Interpret drawings for measurement purposes and identify the purpose specifications for measured item.</p> <p>CLO3 Measure super structure works such as wall construction, plumbing works, doors and windows complete with analyze prices of measured item.</p>
Pre-Requisite Courses	No course recommendations
Topics	
1. Traditional cost modeling 1.1) Types and various methods used for preparation of approximate estimate. Computation of cost data.	
2. Feasibility Studies 2.1) Definition and objectives, types of feasibility studies, procedures and preparation of report and cash flow calculations.	
3. Cost Analysis 3.1) Cost planning process, preparation of cost limit to the preparation of cost plan in the scheme design, cost control in the detail design, tender and during construction stage.	
4. Prediction of Price Levels 4.1) Factors affecting cost of projects and preparation of cost indices.	
5. Cost Planning 5.1) Cost planning process, preparation of cost limit to the preparation of cost plan in the scheme design, cost control in the detail design, tender and during construction stage.	
6. Specification Writing 6.1) Principles and application of writing detailed specifications for all trades (including services) for new works, alterations, maintenance and repairs – for use as an independent contract document. Variations in techniques where quantities form part of the contract. The writing of detailed specifications for measured item. The preparation and use of performance specifications. The knowledge and preparation of preliminary clauses.	
7. Measurement 7.1) Internal & External Wall. Plumbing works. Doors and windows.	

Assessment Breakdown	%
Continuous Assessment	30.00%
Final Assessment	70.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Consist of 2 assignments. Assignment 1 for group of 3 contribute 15%, Tutorial question for individual contribute 5%	20%	CLO1
	Test	n/a	10%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources
	<ul style="list-style-type: none"> • Ahamad Abdullah 2005, <i>Anggaran kos kerja bangunan</i>, Prentice Hall • Ahamad Abdullah, Khairuddin Abdul Rashid 2007, <i>Pengukuran kuantiti bangunan</i>, 2nd Edition Ed., Prentice Hall • Ashworth, A 2010, <i>Cost studies of building</i>, 5th Edition Ed., Longman London • Brook, M., Brook, M 2008, <i>Estimating and tendering for construction work</i>, 4th Edition Ed., Taylor & Francis Group Routledge • Buchan, R.D., Fleming, F.W.E., Grant, F. 2003, <i>Estimating for builders and surveyors</i>, 2nd Edition Ed., Taylor & Francis Group • Capleharn, P 2012, <i>Whole life costing; a new approach</i>, Taylors & Francis Group • Cartlidge, D 2012, <i>Quantity surveyor's pocket book</i>, 2nd Edition Ed., Taylor & Francis Group

Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources