



UNIVERSITI TEKNOLOGI MARA

ARK806: BUILDING ECONOMICS

Course Name (English)	BUILDING ECONOMICS APPROVED
Course Code	ARK806
MQF Credit	2
Course Description	Students would be introduced to the concepts of Development Economics, terms and terminologies, and the overall overview in the process of development in Malaysia. Emphasis will be given on the need of Cost Control in Building Design during the various stages of a development. Cost planning and cost modelling will be introduced. Their attention is drawn to the importance of various types of feasibility studies in relation to Development Economics. Students will also be exposed to various types of Project Financing in the private sector.
Transferable Skills	Reflective Learner Resourceful and responsible Ethically and socially sensitive Creative and Innovative
Teaching Methodologies	Lectures, Blended Learning, Case Study, Practical Classes, Problem Based Learning (PBL), Discussion, Workshop
CLO	CLO1 Describe project development process, building economic principles and cost management techniques. CLO2 Prepare a feasibility study for a project development.
Pre-Requisite Courses	No course recommendations
Topics	
1. Introduction 1.1) Building Economics and Introduction to Development Economics and 1.2) Development Process. 1.3) Concept Of Development Economics (terms & terminologies)- Building Indices, Cost, Price. 1.4) Overall overview in development process- The prevailing Acts & Regulations governing development.	
2. The principles of cost control at various stages. 2.1) Cost Control at stages of work 2.2) Information that an Architect need to supply to Quantity Surveyor 2.3) The general task of a Quantity Surveyor at every stages of works	
3. Cost Planning 3.1) Feasibility estimates 3.2) Preliminary estimates 3.3) Construction estimates	
4. Estimating includes traditional methods such as floor area method, volumetric and approximate quantities, and new methods such as cost modeling using statistical method. 4.1) Method of estimating: 4.2) Cube method 4.3) Superficial method 4.4) Unit method 4.5) 4.6) Type of estimate & Elemental Cost Analysis: 4.7) Building Cost 4.8) Project Cost 4.9) Development Cost 4.10) Form 1,2,3	

5. Feasibility studies including Economics Feasibility, Market Feasibility, Site / Location Feasibility. Design Feasibility, which includes Technical Requirements and Building Morphology, and financial f

5.1) Feasibility Studies (Design Feasibility):

5.2) Technical Requirement (UBBL)

5.3) Building Morphology

5.4) Engineering Requirement (Services)

6. Study of financing in Building and Construction Industry including sources of finance and types of finance. Life cycle costing.

6.1) n/a

Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Produce a comprehensive feasibility studies	40%	CLO2

Reading List	Recommended Text
	<ul style="list-style-type: none"> • London: Spon Press, Taylor & Francis, Ltd 2002, <i>Construction Management and Economics</i>, London: Spon Press, Taylor & Francis, Ltd London • 1981, <i>Life Cycle Costing for Design Professional.</i>, Dell'Isola, A.J., & Kirk, S.J. • Hardie, M.G. 1987, <i>Construction Estimating Techniques.</i>

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