Subject Description Form

Subject Code	BRE363				
Subject Title	Construction Economics				
Credit Value	3				
Level	3				
Pre-requisite	BRE263				
Objectives	1. Enable students to understand the factors affecting construction cost				
	2. Enable students to contribute to the economic efficiency of construction throughout a project life cycle in conjunction with its stakeholders				
Intended Learning	a. Analyse the factors affecting construction cost at an industry and project level.				
Intended Learning Outcomes	b. Compile and use cost data effectively for forecasting and controlling purpose				
	c. Compare cost of alternative designs				
	d. Evaluate life cycle cost of construction				
	e. Communicate principles and cost data effectively.				
	f. Identify contemporary issues related to construction economics				
Subject Synopsis/ Indicative Syllabus	Demand and supply for construction Factors affecting construction cost at industry and project level Productivity and its measurement Types of client and the client's brief Real estate developers and their costs The roles of construction and property professionals Compilation and use of cost data Building cost and tender price indices Design economics Cost planning and cost analysis An introduction to cost modeling Life cycle costing Cost control measures				

Methodology	The principles and concepts are delivered through lectures (each at 2 hrs pe with application and discussion being covered in seminars and tutorials (each per week in small groups), for a total period of 13 weeks.								
	The syllabus on construction economics will take students through the macr micro factors affecting construction cost, both from the client and contra perspectives. Seminar topics (some of which are case-based) and reports de students' individual research and data analysis, as well as presentation.								
	Apart from face-to-face lect materials from an electronic			student	s can de	ownload	l teachii	ng	
Assessment Methods in Alignment with Intended Learning	Specific assessment methods/tasks	% weightin		Intended subject learning outcomes to be assessed (Please tick as appropriate)					
Outcomes			a	b	c	d	e	f	
	1.Seminars/reports	40 %	√	\checkmark	\checkmark	\checkmark			
	2. Examination	60 %	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
	Total	100 %		I		1	I		
l	intended learning outcomes		the assessi	ment m	ethous 1	n assess	ing the		
	intended learning outcomes	: Ora	l Seminar	Writte	en Semi	1	Examin		
	Learning outcomes 1. to possess skills to	: Ora		Writte		1			
	Learning outcomes1. to possess skills to identify, analyze and2. to have an understand of professional, social	: Ora Pre	l Seminar	Writte	en Semi	1			
	Learning outcomes 1. to possess skills to identify, analyze and 2. to have an understands of professional, social and ethical 3. to communicate	: Ora Pre	l Seminar	Writte	en Semi	1			
	Learning outcomes 1. to possess skills to identify, analyze and 2. to have an understand of professional, social and ethical	: Ora Pre	1 Seminar sentation $$	Writte	en Semi Report 	1	Examin		
	Learning outcomes1. to possess skills to identify, analyze and2. to have an understand of professional, social and ethical3. to communicate effectivelv4. to contribute as team member and to lead	: Ora Pre	l Seminar sentation 	Writte	en Semi Report 	1	Examin		
	Learning outcomes1. to possess skills to identify, analyze and2. to have an understand of professional, social and ethical3. to communicate effectivelv4. to contribute as team member and to lead effectively5. to identify contemporation	: Ora Pre- ing ary	l Seminar sentation 	Writte	en Semi Report 	1	Examin		
	Learning outcomes 1. to possess skills to identify, analyze and 2. to have an understanding of professional, social and ethical 3. to communicate effectively 4. to contribute as team member and to lead effectively 5. to identify contemporarissues 6. Analyse the factors affecting construction cost at an industry and	Cra Pre ing ary	$\frac{1 \text{ Seminar}}{\sqrt{1}}$	Writte	en Semi Report 	1	Examin		
	Learning outcomes 1. to possess skills to identify, analyze and 2. to have an understanding of professional, social and ethical 3. to communicate effectively 4. to contribute as team member and to lead effectively 5. to identify contemporation issues 6. Analyse the factors affecting construction cost at an industry and project level. 7. Compile and use cost	Cra Pre ing ary	$\frac{1 \text{ Seminar}}{\sqrt{1}}$	Writte	en Semi Report 	1	Examin		

	<u>The assessment criteria adopted in tutorial/seminars</u> ("plus" grada for anhanced parformance possible for each grade except F)						
	("plus" grade for enhanced performance possible for each grade except l						
	1. Seminar (oral presentation) – individual assessment (20%)						
	• Oral presentation skills: A for excellent, B for good, C for clear, D for						
	reading from script, F for mumbling						
	• Familiarity with the topic: A for excellent, B for good, C for adequate, D for poor, F for no knowledge						
	 Quality of visuals: A for excellent, B for good, C for adequate, D for barely sufficient, F for poor 						
		r good C for adequate D for					
	 Answer during discussion: A for excellent, B for good, C for adequate barely sufficient, F for poor 2. Seminar (Group report) – overall (group) assessment (20%) 						
	Written communication skills: A for excellent, H barely sufficient, F for poor	3 for good, C for clear, D for					
	 Data/information collection: A for excellent, B t for barely sufficient, F for poor 	for good, C for adequate, D					
	• Data interpretation & analysis: A for excellent, I for barely sufficient, F for poor	B for good, C for adequate, D					
	• Identification of problem/issue: A for excellent, for barely sufficient, F for poor	B for good, C for adequate, D					
	 Conclusion: A for excellent, B for convincing, C for adequate, D for barely sufficient, F for poor 						
Student Study Effort Required	Class contact:						
	Lectures	26Hrs.					
	Seminars/Tutorials	13Hrs.					
	Other student study effort:						
	Independent study	120Hrs.					
	Total student study effort	159Hrs.					
Reading List and References	 Briscoe, G., (1988) <i>The Economics of the Construction Industry</i>, London: Mitchell Ferry, D. & Brandon, P.S., (2007) <i>Cost planning of Buildings</i>, 7th Edition, Oxford, Blackwell Publications Harvey, J. (1992) <i>The Economics of Real Property</i>, London: MacMillan 						
		Raftery, J., (1991) Principles of Building Economics, London: BSP Professional					
	Books						
	Ashworth A., (2010) Cost Studies of Buildings, Harlow, England: Pearson						
	 Supplementary: Smith, J. (1998) Building Cost Planning for the Design Team, Deakin University Press Seeley, I. (1996) Building Economics, MacMillan Pilcher, R. (1994) Project Cost Control in Construction, Blackwell Scientific Publication Chris, M. (2009) Finance and control for construction, Taylor & Francis Hong Kong Statistics (current issues), Hong Kong SAR Government Websites of major QS practices Journal articles (e.g., Construction Management and Economics: update issues) 						