Subject Description Form

Subject Code	BRE363			
Subject Title	Construction Economics			
Credit Value	3			
Level	3			
Pre-requisite	Nil			
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.			
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 per week with application and discussion being covered in seminars and tutorials (each at 1 per week in small groups), for a total period of 13 weeks.										
	The syllabus on construction economics will take students through the macro and micro factors affecting construction cost, both from the client and contractor's perspectives. Seminar topics (some of which are case-based) and reports demand students' individual research and data analysis, as well as presentation.										
	Apart from face-to-face lect materials from an electronic				student	s can do	ownload	l teachii	ng		
Assessment Methods in Alignment with Intended Learning	Specific assessment methods/tasks % weighting		ting	Intended subject learning outcomes to be assessed (Please tick as appropriate)							
Outcomes				а	b	с	d	e	f		
	1.Seminars/reports	40	%	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		
	2. Examination	60	%	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
	Total	100 9	%	I		1	1	I	1		
	Explanation of the appropri		of the	e assessr	nent me	ethods i	n assess	ing the			
	intended learning outcomes	:	oral Se	eminar	Writte	en Semi	1	sing the Examin			
		:	oral Se		Writte		1				
	intended learning outcomes	: P ing	oral Se	eminar	Writte	en Semi	1				
	intended learning outcomes Learning outcomes 1. to possess skills to identify, analyze and 2. to have an understand of professional, social and ethical 3. to communicate	: P ing	oral Se	eminar tation	Writte	en Semi	1				
	 intended learning outcomes <i>Learning outcomes</i> 1. to possess skills to identify, analyze and 2. to have an understand of professional, social and ethical 	: P ing	Pral Se Presen	eminar tation	Writte	en Semi Report 	1	Examin			
	 intended learning outcomes <i>Learning outcomes</i> 1. to possess skills to identify, analyze and 2. to have an understand of professional, social and ethical 3. to communicate effectively 4. to contribute as team member and to lead 	: P ing	Pral Se Presen	eminar tation	Writte	en Semi Report 	1	Examin			
	 intended learning outcomes 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 	: O P ing ary	Presen	eminar tation	Writte	en Semi Report 	1	Examin			
	 intended learning outcomes Learning outcomes 1. to possess skills to identify, analyze and 2. to have an understand of professional, social and ethical 3. to communicate effectively 4. to contribute as team member and to lead effectively 5. to identify contempora issues 6. Analyse the factors affecting construction cost at an industry and 	: O P ing ary I data	Presen	eminar tation	Writte	en Semi Report 	1	Examin 			
	 intended learning outcomes <i>Learning outcomes</i> 1. to possess skills to identify, analyze and 2. to have an understand of professional, social and ethical 3. to communicate effectively 4. to contribute as team member and to lead effectively 5. to identify contempora issues 6. Analyse the factors affecting construction cost at an industry and project level. 7. Compile and use cost 	: O P ing ary I data	Presen	eminar tation	Writte	en Semi Report 	1	Examin 			

	The assessment criteria adopted in tutorial/seminars				
	("plus" grade for enhanced performance possible for each grade except F; students				
	may work on one or more topics, hence averaging coursework grades may apply)				
	 Seminar (oral presentation) – individual assessm Oral presentation skills: A for excellent, B for gereading from script, F for mumbling Familiarity with the topic: A for excellent, B for poor, F for no knowledge Quality of visuals: A for excellent, B for good, C sufficient, F for poor Answer during discussion: A for excellent, B for barely sufficient, F for poor Seminar (Group report) – overall (group) assessm Written communication skills: A for excellent, B for barely sufficient, F for poor Data/information collection: A for excellent, B for barely sufficient, F for poor Data interpretation & analysis: A for excellent, I for barely sufficient, F for poor Identification of problem/issue: A for excellent, for barely sufficient, F for poor 	ood, C for clear, D for good, C for adequate, D for C for adequate, D for barely r good, C for adequate, D for nent (20%) 3 for good, C for clear, D for for good, C for adequate, D B for good, C for adequate, D B for good, C for adequate, D			
	sufficient, F for poor	ion adequate, D for barery			
Student Study Effort Required	Class contact:				
Enort Required	Lectures	26Hrs.			
	Seminars/Tutorials	13Hrs.			
	Other student study effort:				
	 Independent study 	120Hrs.			
	Total student study effort	159Hrs.			
Reading List and References	 Gruneberg, S. and Francis, N. (2019) <i>The Economics of Construction</i>, Agenda Publishing Ltd. Ferry, D. & Brandon, P.S., (2007) <i>Cost planning of Buildings</i>, 7th Edition, Oxford, Blackwell Publications Ive, G.J. and Gruneberg, S. (2000) <i>The economics of the modern construction sector</i>, Basingstoke: Macmillan Myers, D. (2017) <i>Construction Economics: a new approach</i>, Abingdon, Oxon: Routledge, 4th edition (online version available) Ashworth A., (2010) <i>Cost Studies of Buildings</i>, Harlow, England: Pearson Supplementary: Smith, J. (1998) <i>Building Cost Planning for the Design Team</i>, Deakin University Press Seeley, I. (1996) <i>Building Economics</i>, MacMillan Pilcher, R. (1994) <i>Project Cost Control in Construction</i>, Blackwell Scientific 				
	Publication Chris, M. (2009) Finance and control for construction, T Samuelson, P.A. and Nordhaus, W.D. (2010). <i>Economi</i>	aylor & Francis			

International Edition.
Hong Kong Statistics (current issues), Hong Kong SAR Government
Websites of major QS practices
Journal articles (e.g., Construction Management and Economics: update issues)