Subject Description Form

Please read the notes at the end of the table carefully before completing the form.

Subject Code	BRE263	
Subject Title	Construction Economics and Finance	
Credit Value	3	
Level	2	
Pre-requisite / Co- requisite/ Exclusion	Nil	
Objectives	 This subject is intended to: Provide students with an economics perspective of the real estate and construction sectors, and an understanding of their roles on the general economy. Introduce to students the financial markets, institutions and instruments in the context of the construction and real estate industry. Enable students to identify and analyze industry-wide problems based on an understanding of the market structure, performance and behaviour of the industry. 	
Intended Learning Outcomes (Note 1)	 Upon completion of the subject, students will be able to: Describe the size and market structure of the property and construction industries, and consequently articulate why construction and real estate has played an important role on economic development, particularly in the case of Hong Kong. In particular, students would be able to: a) describe the contribution of the property and construction industries to economic growth, b) describe how much the construction output has been in countries around the globe, c) describe some salient features of the property and construction sectors, including new-build and retrofitting works. Apply macroeconomics theories, in particular those concerning business fluctuations, aggregate demand, and the Keynesian multiplier model to understand and describe the economic and social role of the property and construction industries. With such competence, students would be able to: a) evaluate whether fiscal plans adopted by governments around the globe would work as intended to stimulate the general economy, b) give their own ideas of how such fiscal policies should be formulated and implemented in view of constraints and limitations. c) articulate the inter-relationship between the property and construction industries, the banking industry and the macro-economy. d) identify problems related to the market structure and the behaviours of the stakeholders. Estimate the profitability of projects and firms with an understanding of how project and corporate finance can be raised from the money and capital markets. In particular, students would be able to:	

could be estimated. 4. Be able to articulate the roles and interdependence of participants in the construction and real estate industry, including developers, consultants. contractors, property managers and the government. Be able to effectively communicate their ideas, to make contributions to teamwork and to demonstrate their leadership potential. Students are required to present their works and findings in groups and lead the discussions afterwards, learning to communicate their ideas and advance their arguments in an effective and convincing manner. The group work setting will also facilitate their understanding of group dynamics, cultivating their leadership skills and nurturing their sense of responsibility being part of a team. They are assessed both individually and as a group. **Subject Synopsis/** An overview of macro-economic theories. Roles of property and construction on the **Indicative Syllabus** economy, with comparisons between some economies around the globe and the particular case of Hong Kong. The relationship between the property/construction (*Note 2*) industry, the financial institutions, markets and the participants. Pricing of financial instruments including debts, equities and REITs. Economic viability and financial feasibility of projects including their externalities such as carbon emissions. An overview of market structure, performance and behaviour of the real estate and construction industry in Hong Kong. Economic problems associated with the Asian Financial Crisis, the Sub-prime Crisis and globalisation. Teaching/Learning Students spend half of their total contact hours in mass lectures, and another half in Methodology seminars. Tutorials are interactive and students are encouraged to participate in discussions. Topics are introduced in the lectures and the key issues highlighted as (*Note 3*) well, supplemented with further learning and reference materials downloaded from the web. Subsequent seminars provide the opportunity for more in-depth discussion of the main issues delivered in the lectures. Themes of the seminars will follow closely that of the lectures, so that the framework introduced in the lectures can be further illustrated, exemplified and elaborated. Learning materials will also be assessible from the web. **Assessment Methods** in Alignment with Specific assessment % **Intended Learning** methods/tasks weighting 1 2 3 4 5 Outcomes 1. Seminar/Group (*Note 4*) $\sqrt{}$ $\sqrt{}$ 20% Report 1 Seminar/Group $\sqrt{}$ $\sqrt{}$ 20% Report 2 $\sqrt{}$ 60% $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 3. Examination Total 100 % Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes: Assessed principally through Learning outcomes Oral Written Attendance Examination

	Seminar Presentation	Seminar Report	and Performance in Class	
All-rounded attri	butes:			
	ills to identify, solve problems	√		V
2. to have an un professional, ethical respon				V
3. to communic	rate effectively $\sqrt{}$	√		
5. to contribute member and effectively		√		
7. to identify co	ontemporary		V	V
Intended learning	g outcomes of course:		L	<u> </u>
the property a construction and conseque understanding construction has played ar	ket structure of and industries are ently an g of why and real estate in important role development,	V		V
2. Be capable of macroeocnor particular the business fluctured aggregate der Keynesian monthe econor role of the proconstruction identifying processing macroeocnor macroeocno macroeocno macroeocno macroeocno macroeocno mac	mics theories, in ose concerning tuations, mand, and the ultiplier model mic and social operty and industries: roblems related a structure and	√ √		V
3. Be able to ever economic via financial feast projects included cycle costing externalities, sources of fire explain the book of the sources of the explain the book of the sources of the explain the book of the economic via the sources of the explain the book of the economic via the sources of the economic via the sources of the economic via the sources of the economic via th	ability and sibility of ading their life- to, costs of alternative nance and	√		V

4.	Be able to articulate the roles and interdependence of participants in the construction and real estate industry, including developers, consultants, contractors, property managers and the government.	V	V		√
5.	Be able to effectively communicate ideas and to make contributions to teamwork			V	

The assessment criteria adopted in tutorial seminars

Nature of Coursework: Individual Presentation and Group Report

Assessment criteria:

- 1. Seminar (oral presentation) individual assessment (40%)
- 2. Seminar (Group report) overall (group) assessment (40%)
- 3. Attendance and active participation in Q and A (20%)
- 1. Seminar (oral presentation) individual assessment (40%)

Individual assessment is based on:

- a. Clarity of presentation
- b. Oral presentation skills
- c. Facilitation of Q & A session
- 2. Seminar (Group report) overall (group) assessment (40%)

Assessment of the group is based on:

- a. Understanding of the central theme and identification of relevant issues
- b. Collection of data / information
- c. Data interpretation and analyses
- d. Written communication skills.
- e. Conclusion
- 3. Attendance and active participation in Q and A (20%)

Each student is encouraged to participate actively in the Q & A session. Each student will be asked to raise at least one question.

Evidences students are expected to give to get the various grades under the criteria:

Grade	Report		Presentation	
A+	1. 2. 3. 4.	Excellent understanding of the central theme and identification of relevant issues Insightful and stimulating Very good collection of data / information (with some extra reading) Very good data interpretation and	1. 2. 3. 4.	Clarity of presentation Stimulating presentation Excellent oral presentation skills Excellent Facilitation of Q & A session
		analyses (good illustration by examples, case studies, figures and		

		T
	other evidences) 5. Display excellent written	
	communication skills.	
	6. Excellent conclusion	
A	Very good understanding of the	Clarity of presentation
	central theme and identification of	2. Good oral presentation skills
	relevant issues	3. Facilitation of Q & A session
	2. Good collection of data /	
	information	
	3. Good data interpretation and	
	analyses (Good illustration of the	
	answer by examples, case studies,	
	figures and other evidences).	
	4. Display very good written	
	communication skills.	
D.	5. Very good conclusion	1 (1)
B+	1. Good understanding of the central	1. Clarity of presentation
	theme and identification of relevant issues	2. Good oral presentation skills3. Good facilitation of Q & A session
	2. Good collection of data /	3. Good facilitation of Q & A session
	information	
	3. Good data interpretation and	
	analyses	
	4. Display good written	
	communication skills	
	5. Good conclusion	
B	1. Good understanding of the central	1. Clarity of presentation
	theme and identification of relevant	2. Good oral presentation skills
	issues	3. Facilitation of Q & A session
	2. Sufficient data collection,	
	interpretation and analyses 3. Display good written	
	communication skills	
	4. Good conclusion	
C+	1. Understanding of the central theme	1. Familiarity with the topic
	and display adequate knowledge of	2. Reasonably good oral presentation
	the subject	skills
	2. Sufficient data collection and	3. Some facilitation and participation
	analyses	of Q & A session
	3. Display reasonably good written	
	communication skills 4. Reasonably good conclusion	
C	Reasonably good conclusion Reasonable understanding of the	Familiarity with the topic
	central theme and display adequate	2. Reasonably good oral presentation
	knowledge of the subject	skills
	2. Provide sufficient data and	3. Poor participation of Q & A
	information	session
	3. Display some written	
	communication skills	
	4. May have a reasonably good	
	conclusion	1 Door knowledge of the tools
D+	Display inadequate knowledge of the subject	 Poor knowledge of the topic Poor oral presentation skills
	2. Provide poor and insufficient data /	3. Poor participation of Q & A
	information	session
	3. Display poor written	
	communication skills	
	4. May not have a conclusion	
D	1. Display poor knowledge of the	1. Very poor knowledge of the topic
	subject	2. Poor oral presentation skills
	2. Provide poor and insufficient data /	3. Poor participation of Q & A
	information	session
	3. Display poor written	

	F	communication skills 4. May not have a conclusion 1. Display no knowledge of the subject 2. Provide poor and insufficient data / information 3. Display poor written communication skills	2. Poo 3. Poo	knowledge of the topic or oral presentation skills or participation of Q & A sion
Student Study Effort Required	Class co	ontact:		
Kequireu	• Lec	eture	26 Hrs.	
	Seminars/Tutorials			13 Hrs.
	Other s	tudent study effort:		
	Ind	ependent Study	96 Hrs.	
	Total st	udent study effort	135 Hrs.	
Reading List and References		mondod		'

Recommended:

Park, Chan S. (2011). *Contemporary Engineering Economics*. 5th edition. Upper Saddle River, N.J.: Prentice Hall.

Samuelson, P.A. and Nordhaus, W.D. (2010). *Economics*, 19th edition. McGraw-Hill International Edition.

Supplementary:

Chiang, Y.H. Anson, M. and Raftery, J. (2004). *The Construction Sector in Asian Economies*. London and New York: Spon Press. 491pp.

Eccles, T., Sayce, S., and Smith, J. (1999). *Property and Construction Economics*, International Thomson Business Press.

Genberg, H. and Hui, C.H. ed. (2008). *The Banking Sector in Hong Kong: Competition, Efficiency, Performance and Risk.* NY: Palgrave Macmillan.

Glahe, F. & Lee, D. (1989). Microeconomics, Harcourt Brace Jovanovich: New York.

Hong Kong Government. *Annual Economic Reports and Reviews*, H.K. Government Printer.

Hong Kong Polytechnic University. *AsiaConstruct Annual Country Reports on Construction and Real Estate Industry*.

Hsu, B. Arner, D., Tse, K.S., Johnstone, S., Li, L. (ed.) and Lejot, P. (ed.) (2006) *Financial Markets in Hong Kong: Law and Practice*. Oxford University Press. 560pp.

Jao, Y.C. (1997). Hong Kong as An International Financial Centre: Evolution, Prospects and Policies. HK: City University of Hong Kong Press.

Low, C.K. ed. (2000). Financial Markets in Hong Kong. Singapore and NY: Springer.

Raftery, J. (1998), Principles of Building Economics, Blackwell Scientific

Publications: Oxford.
Young, L.S.F and Chiang, R.C.P. ed. (1997). <i>The Hong Kong Securities Industry</i> , 3 rd edition. HK: The Stock Exchange of Hong Kong, and Asia-Pacific Institute of Business, The Chinese University of Hong Kong.

Note 1: Intended Learning Outcomes

Intended learning outcomes should state what students should be able to do or attain upon completion of the subject. Subject outcomes are expected to contribute to the attainment of the overall programme outcomes.

Note 2: Subject Synopsis/Indicative Syllabus

The syllabus should adequately address the intended learning outcomes. At the same time over-crowding of the syllabus should be avoided.

Note 3: Teaching/Learning Methodology

This section should include a brief description of the teaching and learning methods to be employed to facilitate learning, and a justification of how the methods are aligned with the intended learning outcomes of the subject.

Note 4: Assessment Method

This section should include the assessment method(s) to be used and its relative weighting, and indicate which of the subject intended learning outcomes that each method purports to assess. It should also provide a brief explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes.