Subject Description Form

Credit Value Level 3 Pre-requisite / Co-requisite / Exclusion Objectives This s 1. 2. Intended Learning Outcomes b. c. Subject Synopsis/ Indicative Syllabus	ubject is intended to: Introduce the measurement rules as stipulated in standard method of measurement. Enable students to develop the skills required to measure, quantify, and price construction work. completion of the subject, students will be able to: Quantify and describe new building works and alteration work in accordance with standard method of measurement.				
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Outcomes a. b. c. Subject Synopsis/ Indicative Syllabus Measurement	Quantify and describe new building works and alteration work in accordance				
Subject Synopsis/ Indicative Syllabus b. Measurement					
Subject Synopsis/ Indicative Syllabus Measurement					
Subject Synopsis/ Indicative Syllabus	Utilise available commercial building measurement software for the production of Bills of Quantities.				
Indicative Syllabus Measur	Analyse and synthesis composition of unit rates and an appreciation of the cost.				
Organ	urement of building works (for learning outcomes (a), and (b)):				
regula techni	Organisation and systems of measurement including subdivision of building works; mensuration used in measurement including mean girth, formulae for measuring regular figures and irregular figures, gross and net floor areas; measurement techniques including measurement of building works, comparative studies of measurement procedures, and examination of forward trends.				
<u>Estimo</u>	ating (for learning outcome (c)):				
rate ba	rs influencing the pricing of new works and alteration work; evaluation of unit ased on resources (labour, plant, and materials); enquiries for materials and subcet prices; calculation of unit rates; calculation of preliminaries and temporary.				
Teaching/Learning Methodology The the will be					

Assessment Methods in Alignment with Intended Learning Outcomes

Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)					
		a	b	c			
1. Coursework 1: Individual assignment (taking off exercise, preparing BQ section)	15%	V	V				
2. Coursework 2: Individual assignment (taking off exercise, preparing BQ section)	15%	V	V				
3. Coursework 3: Group project (estimating problem)	20%			√			
4. Examination	40%	√	√	√			
5. Effort	10%	1	V	√			
Total	100%						

Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:

Coursework 1 and Coursework 2: Students are given assignments (taking off exercise) from reading construction drawings to taking dimensions off from the drawings. Coursework 1 and Coursework 2 are to assess students' ability:

- i. To understand the construction activities through reading construction drawings.
- ii. To organize themselves to work on building measurement tasks.
- iii. To gather necessary information and develop electronic measurement skill.
- iv. To identify and familiarize themselves with building components.

Upon completion of Coursework 1 and Coursework 2, students will be able to achieve learning outcomes (a) and (b).

Coursework 3: Students are given a group project to solve the estimating problems. This coursework is to assess students' ability:

- i. To organize themselves and fellow group members because an estimator needs to work with others as a team to accomplish the estimating task.
- ii. To correctly use technical terminology relating to quantification of building works and cost estimating.
- iii. To solve a problem or task that is given (e.g., by your employer).
- iv. To demonstrate presentation, communication and writing skills.

Through the problem solving exercises relating to estimating activities (Coursework 3), students will be able to achieve learning outcomes (c).

	Examination is used to assess students' understanding of measurement and estimating concepts and practices learned in the lectures. Students will be able to achieve learning outcomes (a), (b) and (c). Through students' effort in solving the problem exercises given in lectures and tutorials, the students will be able to achieve learning outcomes (a), (b) and (c).					
Student Study Effort Expected	Class contact: Lecture	26 Hrs.				
	Seminar / Tutorial	13 Hrs.				
	Other student study effort:					
	Student study effort	120 Hrs.				
	Total student study effort	159 Hrs.				
Reading List and References	Ashworth, A. and Hogg, K. (2007) Willis's practice and procedure for the quantity surveyor, 12 th Edition, Blackwell, Oxford. Buchan, R., Fleming, F.W. and Grant, F.E. (2003) Estimating for builders and surveyors, 2 nd Edition, Butterworth-Heinemann, Oxford. Chan, C.T.W. (2014). Estimating and measurement for simple building works in Hong Kong, Pearson. Holroyd, T.M. (2000) Principles of estimating, Thomas Telford, London. Packer, A.D. (1996), Building measurement, Addison Welsey Longman, Essex. Picken, D.H. and Drew, D.S. (1996) Building measurement in Hong Kong: Worked Examples Longman Asia Ltd., Hong Kong. The Hong Kong Institute of Surveyors (2005) Hong Kong standard method of measurement of building works — fourth edition (HKSMM4), HKIS, Hong Kong.					