

Subject Description Form

Subject Code	LSGI3313
Subject Title	Land Boundary Survey
Credit Value	3
Level	3
Pre-requisite	LSGI2373 Surveying
Objectives	The subject is designed to provide a study on the Hong Kong land boundary surveying practice at the fundamental level of an associate professional land surveyor. This subject aims to nurture students with professional working attitude and behaviour, and to develop land parcel boundary survey skills with respect to the Code of Practice, Land Survey Ordinance [Cap.473].
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ul style="list-style-type: none"> A. Identify different land boundary surveying functions and apply corresponding land survey methods (L1); B. Carry out land boundary surveys from record searching, fieldwork and procession, to survey plan and report production (L2); C. Understand and appreciate the accuracy and limitation of various types of land boundary records (L2); D. Understand the objectives and purposes of the Land Survey Ordinance (Cap. 473) and the technical standards for land boundary survey as specified in the Code of Practice issued under the Land Survey Ordinance (L2); E. Develop the arts and science of boundary redefinition using existing and state-of-art technology (L3).
Subject Synopsis/ Indicative Syllabus	<ul style="list-style-type: none"> A. History and Development Land grants and survey in the early Colonial period Demarcation District Survey in New Territories Pre-War New Grants Survey and mapping development after 2nd World War Pre – 1963 Old Imperial System 1963 – 1976 New Imperial System 1976 – 1980 Metric 1980 onwards 1980 Metric B. Boundary concepts and records of land parcel boundary Approximate plot boundary Leasehold legal boundary Graphical accuracy and survey accuracy Land boundary record and boundary evidence

	<p>Land boundary records in the Land Registry Land boundary records in the Survey and Mapping Office</p> <p>C. Boundary surveying operations Background study - search of boundary survey information Site-check Fieldwork - field-evidence & occupation Data processing and lot boundary computations Manual and digital lot boundary correlation Survey plan production - Survey Record Plan, Land Boundary Plan, Dimension Plan & Site Plan Survey Report Boundary Re-establishment in Code of Practice</p>																																																
<p>Teaching/Learning Methodology</p>	<p>The course is designed to adopt interactive lecture such that the basic information of each lecture are made available on web. The interactive lecture starts by introducing essential basics and uses group activity and debriefing to encourage active thinking and participation. Laboratory exercise is used to help building up the key knowledge base of the subject materials. Hybrid PBL and Case-based learning are used increasingly in the lecture to work on land boundary cases.</p> <p>Students have to be self-motivated to carry out studying at the department on-line platform. Real cases for demonstration of land boundary re-establishment will be used. Students are required to complete a land boundary re-establishment project with emphasis on the Survey Record Plan and Survey Report production.</p>																																																
<p>Assessment Methods in Alignment with Intended Learning Outcomes</p>	<table border="1"> <thead> <tr> <th>Specific assessment methods/tasks</th> <th>% weighting</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> </thead> <tbody> <tr> <td>1. Quiz</td> <td>20%</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>2. Exercises</td> <td>15%</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3. Project assessment</td> <td>25%</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4. Exam</td> <td>40%</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Total</td> <td>100%</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>The quizzes are to recapitulate key concepts and facts conveyed in lectures. Tutorial exercises on survey plan and report are used to help students to turn out products at current industry-level. The project assessment includes the inspection of the team survey report, land boundary plan, and survey record</p>							Specific assessment methods/tasks	% weighting	A	B	C	D	E	1. Quiz	20%	✓	✓	✓	✓	✓	2. Exercises	15%	✓	✓	✓	✓	✓	3. Project assessment	25%	✓	✓	✓	✓	✓	4. Exam	40%	✓	✓	✓	✓	✓	Total	100%					
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	plan. A written examination will assess students' independent skills of expression and knowledge of land boundary records, land boundary re-establishment of old schedule lots and new grant lots, and corresponding practices and associated regulations/ ordinances.	
Student Study Effort Expected	Class contact:	
	▪ Lecture	26 Hrs.
	▪ Practical	26 Hrs.
	Other student study effort:	
	▪ Project preparation	36 Hrs.
	▪ Reading	18 Hrs.
	Total student study effort	106 Hrs.
References	<p>References</p> <ol style="list-style-type: none"> Cheung, S. W. (Ed.). (2017). Colonial Administration and Land Reform in East Asia. London: Taylor & Francis.218 pp. Leung, S. C., Sham, T. P. F., & Tang, C. H. W. (2008). The reality versus the legality of the demarcation district sheets. <i>Surveying and Built Environment</i>, 19(1), 26-37. Hase, P. H. (2013). Custom, land and livelihood in rural South China: The traditional land Law of Hong Kong's New Territories, 1750-1950 (Vol. 1). Hong Kong University Press. 513 pp. Nissim, R. (2022). Land administration and practice in Hong Kong. 5th Edition, Hong Kong University Press, 227 pp. Report on New Territories 1899-1912 laid before the Legislative Council, 22 August 1912. Supplement to the Hong Kong Government Gazette 1900. Appendix No. III (Memorandum of Land), No. 26 dated on 28th April 1900. <p>Ordinances:</p> <ol style="list-style-type: none"> Land Registration Ordinance [Cap.128] Surveyors Registration Ordinance [Cap. 417] Land Survey Ordinance [Cap.473] Code of Practice, Version 5, Land Survey Ordinance [Cap.473] Land Titles Ordinance [Cap. 585] <p>Website:</p> <ol style="list-style-type: none"> Hong Kong Government Report Online (1842-1941). Available at: https://sunzi.lib.hku.hk/hkgro/index.jsp 	