

The Hong Kong Polytechnic University

Subject Description Form

Subject Code	LGT4011
Subject Title	Port Planning and Management
Credit Value	3
Level	4
Normal Duration	1-semester
Pre-requisite / Co-requisite/ Exclusion	Nil
Role and Purposes	This subject introduces students to the principles and practices of port operations (Outcome 3). It provides students with a comprehensive knowledge of the nature of port, its development, and its management (Outcomes 8 and 9). It also introduces students to the roles and functions of ports in the economic and transport infrastructure of a territory.
Subject Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> Solve managerial and technical problems in operating a port; Support the continuous development and enhancement of port; Evaluate port development plans; Recommend necessary port facilities and equipment; Develop, coordinate, manage and control emergencies in port; <p>Studying this subject will also help develop students' skills in critical and creative thinking, problem solving, teamwork and communication. It helps develop their ability in pursuing life-long learning. It also helps to strengthen their sense of responsibility in ensuring sustainable development of port.</p>
Subject Synopsis/ Indicative Syllabus	Role of ports in economic development and in the through transport concept; road/rail impact on port/hinterland relationships; geography and locational analysis; port administration and free ports; demand analysis; capacity evaluation; productivity enhancement; Environmental Impact Assessment; investment appraisal; information needs for port planning; investment criteria; investment analysis and financing; port authority liabilities, legal liability under national and international law; management and organization; port marketing; the rise of global terminal operators; cargo handling and transfer technology; labour management in ports; planning for emergencies and disasters; port and the environment. (Outcomes 5 and 6)
Teaching/Learning Methodology	Lectures will be used to present the basic theories and their application to the real world. General principles of the syllabus topic will be presented and developed during the lectures.

	In the tutorial classes, students will develop and apply the general principles of the topic in student-centred activities, including group discussions of cases, student presentations and discussions.							
Assessment Methods in Alignment with Intended Learning Outcomes			Intended subject learning outcomes to be assessed (Please tick as appropriate)					
	Specific assessment methods/tasks	% weighting	a	B	c	d	e	
	Final Examination	50%	✓	✓		✓	✓	
	Continuous Assessment	50%		✓	✓	✓		
	Total	100 %						
	<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>The coursework includes a test (15%) for basic knowledge and a project assignment (35%) for students to apply theoretical knowledge into practice. Examination is to test students' basic theoretical knowledge and abilities to solve problems.</p> <p><i>To pass this subject, students are required to obtain Grade D or above in BOTH the Continuous Assessment and Exam components.</i></p>							
Student Study Effort Expected	Class contact:							
	▪ Lectures							26 Hrs.
	▪ Tutorials							13 Hrs.
	Other student study effort:							
	▪ Revisions							67 Hrs.
	▪ Course project and presentation							20 Hrs.
	Total student study effort							126 Hrs.
Reading List and References	<p><u>Essential</u></p> <p>Cahoon, S. (2007): 'Marketing communications for seaports: a matter of survival and growth'. <i>Maritime Policy & Management</i> 34(2): 151-168.</p> <p>Fleming, D.K. and Hayuth, Y. (1994): 'Spatial characteristics of transportation hubs: centrality and intermediacy'. <i>Journal of Transport Geography</i> 2(1): 3-18.</p> <p>Heaver, T.D. (1995): 'The implications of increased competition among ports for port policy and management'. <i>Maritime Policy & Management</i> 22(2): 125-133.</p> <p>Ng, A.K.Y. (2009): <i>Port Competition: The Case of North Europe</i>. VDM Verlag, Saarbrücken.</p>							

Ng, A.K.Y. (2011): 'Global ports and logistics facilitation'. In: Liu, J.J. (Ed.): *Supply Chain and Transport Logistics*. Routledge, London, pp. 398-415.

Ng, A.K.Y. and Pallis, A.A. (2010): 'Port governance reforms in diversified institutional frameworks: generic solutions, implementation asymmetries'. *Environment and Planning A* 42(9): 2147-2167.

Ng, A.K.Y. and Song, S. (2010): 'The environmental impacts of pollutants generated by routine shipping operations on ports'. *Ocean and Coastal Management* 53(5-6): 301-311.

Notteboom, T. (Ed.) (2011): *Current Issues in Shipping, Ports and Logistics*. UPA, Antwerp.

Sanchez, R.J., Ng, A.K.Y. and Garcia-Alonso, L. (2011): 'Port selection factors and attractiveness: the service suppliers' perspective'. *Transportation Journal* 50(2): 141-161.

Song D.W., Cullinane, K. and Roe, M. (2001): *The Productive Efficiency of Container Terminals: An Application to Korea and the UK*. Aldershot: Ashgate.

Supplementary/Indicative

Bichou, K., Bell, M.G.H. and Evans, A. (Eds.) (2007): *Risk Management in Port Operations, Logistics and Supply Chain Security*. LLP, London.

Rodrigue, J.P., Slack, B. and Notteboom, T. (Eds.) (2006): *The Geography of Transport Systems*. New York: Routledge.

Sanchez, R.J., Hoffman, J., Micco, A., Pizzolitto, G.V., Sgut, M. and Wilmsmeier, G. (2003): 'Port efficiency and international trade: port efficiency as a determinant of maritime transport costs'. *Maritime Economics & Logistics* 5: 199-218.

Talley, W.K. (Ed.) (2008): *Maritime Safety, Security and Piracy*. LLP, London.

Talley, W.K. (Ed.) (2011): *Maritime Economics: A Blackwell Companion*. Blackwell, Hoboken, NJ.

Wang, J.J. and Ng, A.K.Y. (2011): 'The geographical connectedness of Chinese seaports with foreland markets: a new trend?' *Tijdschrift voor Economische en Sociale Geografie* 102(2): 188-204.

Wang, J.J., Ng, A.K.Y. and Olivier, D. (2004): 'Port governance in China: a review of policies in an era of internationalising port management practices'. *Transport Policy* 11(3): 237-250.