

# The Hong Kong Polytechnic University

## Subject Description Form

<b>Subject Code</b>	LGT2513
<b>Subject Title</b>	Foundation for Nautical Studies
<b>Credit Value</b>	3
<b>Level</b>	2
<b>Normal Duration</b>	1-semester
<b>Pre-requisite / Co-requisite/ Exclusion</b>	Nil
<b>Role and Purposes</b>	To assist the students in developing an appreciation of technical management of ships. To provide a fundamental introduction to the regulatory mechanism, legislative requirements, geographical elements and practical aspects involved in the operation of ships.
<b>Subject Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> <li>a. Understand the basic legislative requirements relating to safety of life at sea and protection of the marine environment;</li> <li>b. Understand the responsibilities of masters, shipowners and administration relating to safety management of ships;</li> <li>c. Understand the fundamental shipboard operations and the rules for collision avoidance at sea;</li> <li>d. Understand the basic concepts applicable to safe ship handling;</li> <li>e. Apply maritime terminologies correctly to communicate with maritime professionals; and</li> <li>f. Familiarize with the fundamentals of maritime geography and use of nautical charts.</li> </ol>
<b>Subject Synopsis/ Indicative Syllabus</b>	The role and functions of United Nations, International Maritime Organization, International Labour Organization and other international organisations in the maritime perspective, and their output in terms of legislation and information provision; Role of unions and International Transport Workers' Federation (ITF). National legislation and government control, implementation and enforcement of treaties; Maritime geography: continents, countries and coastlines; Navigable rivers, waterways and canals and their restrictions; Principal coastal and harbour configurations and their representation; Buoyage system; Time zones and time differences in various ports and countries; General load line rules and zones; International Date Line, standard time, local time, Universal Time Coordinated (UTC) . Types of ships employed in dry cargo, container and tanker trades; Basic measurement terminology; Basic navigation and ship handling: principles of ship handling; berthing, anchoring

	and mooring arrangements & procedures; Collision avoidance at sea; Standard Maritime Communication Phrase (SMCP).																																							
<b>Teaching/Learning Methodology</b>	In the lectures, the general principles of topics will be presented and developed. In the tutorials, students will develop and apply the general principles of the topic in student-centred activities.																																							
<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	<table border="1"> <thead> <tr> <th rowspan="2">Specific assessment methods/tasks</th> <th rowspan="2">% weighting</th> <th colspan="6">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> <th>f</th> </tr> </thead> <tbody> <tr> <td>1. Coursework</td> <td>40%</td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>2. Examination</td> <td>60%</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Total</td> <td>100 %</td> <td colspan="6"></td> </tr> </tbody> </table>		Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						a	b	c	d	e	f	1. Coursework	40%			✓	✓	✓		2. Examination	60%	✓	✓	✓	✓	✓	✓	Total	100 %						
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<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Written test / examination is the appropriate assessment method for the nature of this subject. It is appropriate for testing students' understanding of terminologies, concepts relating to certain technical requirements, as well as principles of problem solving. The duration of written test is so limited that it cannot measure all the learning outcomes. According to typical teaching progress, it is appropriate to use written tests for measuring the learning outcomes (c), (d) and (e). A 3-hour written examination is adequate for measurement of all the learning outcomes. Measurement of the learning outcomes (c), (d) and (e) may carry a relatively lower weighting in the written examination.</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>																																								
<b>Student Study Effort Expected</b>	Class contact:																																							
	▪ Lecture	26 Hrs.																																						
	▪ Tutorial	13 Hrs.																																						
	Other student study effort:																																							
	▪ Self-study / research for self-learning tasks	43 to 59 Hrs.																																						
	▪ Preparation for written tests /examination	25 to 30 Hrs.																																						
	Total student study effort	107 to 128 Hrs.																																						

**Reading List and  
References**

House, D.J. (2003), *Seamanship Techniques, Combined Volume, 2<sup>nd</sup> Edition*, UK: Butterworth-Heinemann

Cockcroft, A.N. (2004), *A guide to the collision avoidance rules: International Regulations for Preventing Collisions at Sea*, Boston: Elsevier

IMO (2002), *Standard Maritime Communication Phrases*, Geneva: International Maritime Organization

IMO (2003), *ISPS Code*, Geneva: International Maritime Organization

Ingham, A.E. (latest edition), *Hydrographic for the Surveyor & Engineer*, London: Blackwell Scientific Publications

Kemp, J.F. (1997), *Ship Construction Sketches & Notes*, Boston: Butterworth Heinemann

Taylor, D.A. (latest edition), *Merchant Ship Construction*, London: Marine Management (Holdings) Ltd for the Institute of Marine Engineers

MacElrevey, D.H. (2004), *Ship handling for the mariner*, Centerville, Md.: Cornell Maritime Press

Marsden, R.G. (2003), *Marsden on collisions at sea*, London: Sweet & Maxwell

OCIMF (1997). *Mooring Equipment Guidelines, Second Edition 1997*, Oil Companies International Marine Forum, UK: Witherby

UN (2004), *Basic Facts about the United Nations*, New York: United Nations.