The Hong Kong Polytechnic University

Subject Description Form

Subject Code	LGT3028		
Subject Title	General Ship Management		
Credit Value	3		
Level	3		
Normal Duration	1-semester		
Pre-requisite	Nil		
Objectives	1. This subject will provide students a full knowledge of controlling the operation of ship and care for persons on board at the operational level, with emphasis on basic concepts concerning ship structure, its construction and maintenance, as well as ship stability. It also provides the students with fundamental principles of safe cargo handling and stowage for ship operation.		
	2. To provide adequate professionally-related skills and knowledge to the students enabling them to make readily contribution on general ship knowledge to the organization which employ them. To provide also a foundation for their future professional development, thus meeting the BBA Program Learning Outcomes.		
Intended Learning Outcomes	 Upon completion of the subject, students will be able to: a. Maintain seaworthiness of a ship in particular actions to ensure and maintain the watertight integrity of a ship and stability conditions that complies with IMO intact stability criteria under all conditions of loading; b. Manage and execute cargo operations of a ship in accordance with the cargo plan and shipboard procedures; and c. Understand the international safety regulations, recognized standards and codes of safe practice on shipboard cargo handling and ship maintenance & survey. 		
Subject Synopsis/ Indicative Syllabus	Principal components of ship's structure, their functions, the presentation in ship drawings; Stability criteria; Hull form coefficient Displacement, Deadweight, Lightweight; Curves and tables displacement and TPC; Load line markings; Density; Relative densi Archimedes principle; Flotation; Effects of density of water on draug and freeboard; FWA; DWA; Buoyancy; Reserve buoyancy; Partial lo of intact buoyancy; Transverse stability; Righting lever and mome Knowledge of cargo handling equipment and safe cargo handling Stowage and securing including sold bulk cargoes; Dangeron hazardous and harmful cargoes and their effect on safety of life and t ship; Definitions of various terms used in the carriage of goods such		

	bale capacity, grain capacity, stowage factors, broken stowage; Types of hatch covers in general use and their safe operation; The safe operations and stowage of containers, bulk, deck and liquid cargoes; International and classification society requirements of structures; Ship maintenance & drydock planning survey preparation.								
Teaching/Learning Methodology	In the lectures, the general principle of the above mentioned topics will be presented and developed. During the tutorial and laboratory sessions, students will learn to develop and apply the general principle of these topics under simulation, as well as other student-centered activities.								
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	outco	Intended subject learning outcomes to be assessed (Please tick as appropriate)					
			а	b	с				
	Coursework	60%	\checkmark	\checkmark	\checkmark				
	Examination	40%	\checkmark	\checkmark	\checkmark				
	Total	100 %							
Student Study Effort	employed to assess st issues in the subject are Class contact:		rstand	ing of	the le	egal an	ld pra	ctical	
Expected	Lecture						26 Hrs.		
	Tutorial / Laboratory						13 Hrs.		
	Other student study effort:								
	Self StudyVisits to ships / piers						81 Hrs.		
							6 Hrs.		
	Total student study effort						126 Hrs.		
Reading List and References	 <u>Essential</u> Bruce, G. & Eyres, D (2012), <i>Ship Construction</i>, 7th Ed, Butter Heinemann Captain D.R. Derrett (2012), revised by Dr C.B. Barrass, <i>Ship Stafor Masters and Mates</i>, Butterworth Heinemann 								
	Danton, G. (1996), <i>The Theory and Practice of Seamanship</i> , 11th edition, London: Routledge.					lition,			

D Vassalos (2000), <i>Contemporary ideas on ship stability</i> , 1 st edition, Amsterdam, New York : Elsevier
David House (2015), <i>Cargo Work : For Maritime Operations</i> , Routledge 2016 Eighth edition
<u>Supplementary</u>
The IMDG Code and its supplement, latest edition