Course Title	Cargo Transport						
Course Code	MANS-322						
Course Type	Required						
Level	1 st Cycle						
Year / Semester	3 rd Year, Spring Semester						
Teacher's Name	Dr Andreas Frangos						
ECTS	7	Theory	Laboratory	Simulation	Tutorial		
		4	2				
Course Purpose	The main objectives of the course are to:						
and Objectives	introduce the safe loading, securing, transporting and discharging of all the major types of cargo						
	examine the basic issues of RO-RO Pax cargo operation						
	offer detailed information on the handling of dangerous cargo						
	elaborate on the effect of cargo in the ship's seaworthiness and stability						
	discuss about the effect of cargo in vessel's and crew's safety						
	describe the securing and the maintenance of communications procedures throughout cargo operations						
Learning	After completion of the course students are expected to be able to:						
Outcomes	safely load, secure, transport and discharge all the major types of cargo						
	control all the major problems arising during a RO-RO Pax cargo operation						
	deal with all types of dangerous cargo that might be transported with a vessel						
	comprehend in detail the effect of cargo in the ship's seaworthiness and stability						
	realize the effect of the cargo to the vessel's and crew's safety						
	properly secure and maintain the communications throughout the cargo operations						
Prerequisites	No	ne	Required	1	None		
Course Content	Safe cargo transport						

	Dry cargoes and cargo declaration						
	Liquid cagoes & MSDS						
	 Cargo spaces preparation, separation, inspection Ventilation and control of transpiration Organization of cargo stowing Defining vessel sizes Load lines and draft Dangerous cargo IMDG code and IMSB 						
	 Bulk cargo other than grain RO –RO Pax vessels Containerized cargo Crude oil and product transport Tanker ships Transport of liquid cargoes Refrigerated cargo transport Timber transport Coal, Bauxite and metal ore transport Steel and steel product transport Grain transport 						
	 Cargo in ballast tanks Unitized cargo Cargo securing. Calculations. Vehicle securing 						
	Crossing seasonal zones. Cargo and draft calculations						
	Calculations related to the hold tanks cargo						
Teaching Methodology		ss assignments, so nt software, cargo ha		• •	ent, computer,		
Bibliography	Required Textbooks/Reading:						
Dibliography	Authors	Title	Publisher	Year	ISBN		
	Cpt Thomas, R.E., rewritten	The properties and stowage of	Glasgow, Brown,	2008	978-0- 85714-798-		
	by Rankin, K.S.	cargoes	DIOWII,		8		
				<u> </u>			

			Son & Ferguson				
Recommended Textbooks/Reading:							
	Authors	Title	Publisher	Year	ISBN		
	Taylor, L.G.	Cargowork	Glasgow, Brown, Son & Ferguson	1992	978-0- 85174-605- 5		
	IMO	Code for safe practice for cargo stowage and securing	IMO	2003	978-92-801- 51459		
Assessment	Homework, in-class assignments, projects, exams, final exam.						
Language	English						