

SUBJECT TEACHING GUIDE

G1054 - Loading and Stevedoring

Degree in Nautical Engineering and Maritime Transport

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Degree in Nautical Engineering and Maritime Transport			Type and Year	Compulsory. Year 3
Faculty	School of Maritime Engineering				
Discipline	Subject Area: Cargo Handling and Stowage				
Course unit title and code	G1054 - Loading and Stevedoring				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web	http://ocw.unican.es/enseñanzas-tecnicas/transportes-maritimos-especiales-y-estiba				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. CIENCIAS Y TECNICAS DE LA NAVEGACION Y DE LA CONSTRUCCION NAVAL				
Name of lecturer	FRANCISCO JOSE CORREA RUIZ				
E-mail	francisco.correa@unican.es				
Office	E.T.S. de Náutica. Planta: + 2. DESPACHO (266)				
Other lecturers					

3.1 LEARNING OUTCOMES

- Cargo handling, stowage & securing:

Knowledge of the effect of cargo including heavy lifts on the seaworthiness and stability of the ship .

Knowledge of safe handling, stowage and securing of cargoes including solid bulk cargoes and dangerous, hazardous and harmful cargoes and their effect on the safety of life and of the ship .

Ability to establish and maintain effective communications during loading and unloading .

Cargo handling equipment. The correct rigging and safe operation of derricks, cranes, and stores hoists.

Crude oil tankers, products tankers, gas tankers and chemical tankers: Knowledge of cargo equipments, measure and control of tanks atmosphere.

4. OBJECTIVES

Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes
 Monitor the loading, stowage, securing, care during the voyage and the unloading of cargoes
 Assess reported defects and damage to cargo spaces, hatch covers and ballast tanks and take appropriate action
 Inspect and report defects and damage to cargo spaces, hatch covers and ballast tanks
 Carriage of dangerous goods
 Contribute to the safe cargo operation of oil, chemical and gas tankers. Take precautions to prevent hazards. Apply occupational health and safety precautions and measures. Ability to safely perform and monitor all cargo operations.

6. COURSE ORGANIZATION

CONTENTS	
1	1. Review of Maritime Transport. Seaborne Trade. World Fleet.
2	2. Bulk Cargoes. Bulk cargoes and bulk carriers. BLU IMSBC Coal, iron ore, bauxite, grain...
3	3. Containerized trade. Container seaborne trade Containers Container carriers. Container terminals Stowage and lashing Roro carriers. Car carriers.
4	4. Dangerous goods. IMDG. Classification Packing and tank provisions Consignment procedures Construction and testing of packagings, IBCs, tanks. Dangerous goods list. Special provisions and exceptions.
5	5. Liquid bulk cargoes. Crude oil tankers Product tankers Chemical tankers LPG tankers LNG tankers.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
To write an essay about maritime transport: the transport of a determinate good on board a determinate kind of ship. 5 sheets maximum.	Work	No	No	5,00
Simulator work.	Laboratory evaluation	No	Yes	35,00
bulk cargoes, container cargoes and dangerous goods: test exam.	Activity evaluation with Virtual Media	No	Yes	30,00
bulk cargoes, container cargoes and dangerous goods: practice exercise.	Others	No	Yes	30,00
TOTAL				100,00
Observations				
If you haven't passed prior exams you must do a final exam on simulator.				
Observations for part-time students				
Final exam on simulator and practice exercise.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

GENERAL.

Reglamentos.

OMI. SOLAS. Edición refundida de 2014. OMI. Londres, 2014.

OMI. MARPOL. Edición consolidada de 2011. OMI. Londres, 2011.

http://www.imo.org/InfoResource/mainframe.asp?topic_id=783

INTERNATIONAL CODE FOR THE SAFE CARRIAGE OF GRAIN IN BULK (International Grain Code) (1991 Edition) IMO

IMDG CODE. Ed. 2014. IMO.

BLU Code. Ed. 2011. IMO.

IMSBC Code. Ed. 2009. IMO.

CODE OF SAFE PRACTICE FOR CARGO STOWAGE AND SECURING (CSS Code)

(2011 Edition) IMO.

INTERNATIONAL CODE FOR THE CONSTRUCTION AND EQUIPMENT OF SHIPS CARRYING

DANGEROUS CHEMICALS IN BULK (IBC Code) (2007 Edition) IMO

INTERNATIONAL CODE FOR THE CONSTRUCTION AND EQUIPMENT OF SHIPS CARRYING

LIQUEFIED GASES IN BULK (IGC Code) (1993 Edition): IMO.

Libros

Thomas, O. Thomas' stowage. 6º ed. Brown, son & Ferguson. Glasgow, 2012.

Bases de datos.

Lloyd's casualty archive Lloyd's Marine Intelligence Unit, SeaSearcher. <http://www.lloydsmiu.com/lmiu/index.htm>

OMI. IMO Vega database. Det Norske Veritas (DNV). V 19.0. 2014

Luzón. Estiba de Cargas Sólidas. Ed. Cartamar. La Coruña, 2016.