SUBJECT TEACHING GUIDE

1180 - Cargo Handling and Stowage: Application of Integrated Management Systems

Master's Degree in Nautical Engineering and Maritime Management

Academic year 2025-2026

1. IDENTIFYING DATA					
Degree	Master's Degree in Nautical Engineering and Maritime Management			Type and Year	Compulsory. Year 1
Faculty	School of Maritime Engineering				
Discipline	Cargo Handling and Stevadoring, Control of the Ship's Functioning and Care of Persons on Board				
Course unit title and code	1180 - Cargo Handling and Stowage: Application of Integrated Management Systems				
Number of ECTS credits allocated	6	Term		Semester based (2)	
Web	https://ocw.unican.es/course/view.php?id=306				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Combination of face-to-face and online training

Department	DPTO. CIENCIAS Y TECNICAS DE LA NAVEGACION Y DE LA CONSTRUCCION NAVAL
Name of lecturer	FRANCISCO JOSE CORREA RUIZ
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Other lecturers	ERNESTO MADARIAGA DOMINGUEZ

3.1 LEARNING OUTCOMES

- Maritime transport review.
  Integration of quality, safety, security and enviromental management system on the cargo handling and stowage.

4. OBJECTIVES

Knowledge about seaborne trade of goods and passengers.
Knowledge about world fleet.
Planning the loading, stowage and securing of the cargo on board.
Knowledge about cargo international codes, for example, IMSBC, BLU, IMDG…
Application of Integrate management system to the cargo handling and stowage.
Development of procedures and processes to load and stowage the goods on board according to quality, safety and environmental integrate criteria.

6. SUBJECT PROGRAM

CONTENTS	
1	Cargo handling and stowage: integrated management system .1 Commodities and vessels. Seaborne trade of goods and passengers. World fleet. .2 Bulk carriers: Integration of quality, safety and environmental processes to the cargo handling and stowage. .3 Tanker vessels: Integration of quality, safety and environmental processes to the cargo handling and stowage. .4 Container carriers: Integration of quality, safety and environmental processes to the cargo handling and stowage. .5 Ro-Pax: Integration of quality, safety and environmental processes to the cargo handling and stowage.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Develop and implement an integrated management system to cargo handling and stowage on determinate commodity and cargo ship. Drawing process maps and procedure guides.	Others	No	Yes	35,00
Test exam via virtual classroom.	Activity evaluation with Virtual Media	No	Yes	15,00
A first task will be to develop a flow chart of the process and a management system for loading and stowing bulk cargoes in bulk carriers. Second one, will be the same report about a vessel where the student had have an experience.	Work	No	Yes	35,00
Participation in forums	Activity evaluation with Virtual Media	No	No	15,00
		No	No	0,00
		No	No	0,00
TOTAL				100,00

Observations

The student can do the academic work and test exam or can do final exam.

Observations for part-time students

Part time students must do final exam.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Sistema de Gestión Integral. Una sola gestión, un sólo equipo. Federico Alonso Atehortúa. Universidad de Antioquía. 2008.
Review of Maritime Transport. (2022) UNCTAD.
Fairplay Encyclopaedia. (2023) Lloyds.