280709 - Imgd and Stowage

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2020
Degree: MASTER'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT MANAGEMENT (Syllabus 2016). (Teaching unit Compulsory)
ECTS credits: 5 Teaching languages: Catalan, Spanish, English

Teaching staff
Coordinator: Blanch Pujol, Carles
Others: Blanch Pujol, Carles

Opening hours
Timetable: Tuesday and Thursday from 17 to 19

Degree competences to which the subject contributes

Basic:
CB6. Possess knowledge and understanding that provide a basis or opportunity to be original in the development and/or application of ideas, often in a research context.
CB7. That the students can apply their knowledge and ability to solve problems in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their study area.
CB8. Students should be able to integrate knowledge and handle the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the responsibilities social and ethical linked to the application of their knowledge and judgments.

CB9. That students can communicate their conclusions and the knowledge and latest rationale underpinning to specialists and non-specialty clearly and unambiguously.

Students should be able to integrate knowledge and handle the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the responsibilities social and ethical linked to the application of their knowledge and judgments.
One of the objectives of this subject is to provide the knowledge, understanding and proficiency of the competences defined in Section A-II/2 (Mandatory minimum requirements for certification of masters and chief mates on ships of 500 gross tonnage or more) of the Seafarers' Training, Certification and Watchkeeping (STCW) International Code:

- "Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes" with special attention to the "Ability to establish procedures for safe cargo handling in accordance with the provisions of the relevant instruments such as IMDG Code, IMSBC Code, MARPOL 73/78 Annexes III and V and other relevant information.
- "Carriage of dangerous goods"

These competences could be also evaluated though simulator in accordance of the STCW Code.

The topics that will be discussed in this subject are the next ones:
- General knowledge of the IMDG Code with special attention to the parts 2, 3, 5 and 7
- Knowledge of the IMDG Code Supplement
- Segregation and stowage of dangerous goods on board container ships, ro-ro ships and general cargo ships
- Knowledge of different international rules for dangerous goods transport: ADR/RID, IATA, IMDG.
- National regulations regarding dangerous goods
- Harbour management procedures for dangerous goods

**Study load**

| Total learning time: 45h | Hours large group: | 45h | 100.00% |
# Content

## Chapter 1. IMDG Code

**Description:**
Deep knowledge of the IMDG code and its supplement. Knowledge of the procedures previous to the embarkation of the dangerous goods, documents needed, segregations, stowage, exemptions, etc.

**Learning time:** 89h 20m
- Theory classes: 6h
- Guided activities: 16h 40m
- Self study: 66h 40m

## Chapter 2. Relation among the international regulations for the transport of dangerous goods

**Description:**
General knowledge of the regulations IMDG, ADR, RID and IATA and the relation among them.

**Learning time:** 15h
- Theory classes: 12h 30m
- Guided activities: 2h 30m

## Chapter 3. National regulations for the carriage of dangerous goods at sea

**Description:**
Knowledge of the Spanish regulation that regulates the carriage of dangerous goods at sea. Functions of the maritime administration and harbour authorities. Responsibilities of the captain.

**Learning time:** 12h
- Guided activities: 2h
- Self study: 10h

## Chapter 4. Harbour management procedure for the dangerous goods

**Description:**
Knowledge of the harbour procedures for the entrance, exit and transit of the dangerous goods.

**Learning time:** 8h 40m
- Guided activities: 2h
- Self study: 6h 40m

### Qualification system

Final mark = 50% WORKS + 50% FINAL EXAM
Regulations for carrying out activities

- You can't pass the course if all works, activities, and exercises are carried out and submitted.
- If the student doesn't carry out the final exam, he or she will be considered as a "Not presented".
- In case that the final mark is less than 5 but the student has passed the final exam, he or she will get the final mark of 5 (approved).

Bibliography

Basic:

Complementary: