# 280709 - Imdg and Stowage

**Coordinating unit:** 280 - FNB - Barcelona School of Nautical Studies  
**Teaching unit:** 742 - CEN - Department of Nautical Sciences and Engineering  
**Academic year:** 2019  
**Degree:** MASTER’S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT MANAGEMENT (Syllabus 2016). (Teaching unit Compulsory)  
**ECTS credits:** 5  
**Teaching languages:** Catalan, Spanish, English

## Coordinator
MARIANO BADELL SERRA

## Opening hours
**Timetable:** Tuesday and Friday from 17 to 19

## Degree competences to which the subject contributes

### Specific:
- CE12MENTM. Apply the IMDG Code in all possible casuistry on board and plan and execute projects calculations for stowage of specific shipments.  
- CE13MENTM. Apply the code for the transport of dangerous goods on board different types of vessels.

### Generical:
- CG2MENTM. Apply general knowledge of the structure and behavior in the Sea ship.

### Transversal:
- CT3. TEAMWORK: Being able to work in an interdisciplinary team, whether as a member or as a leader, with the aim of contributing to projects pragmatically and responsibly and making commitments in view of the resources that are available.

## Teaching methodology
- Receive, understand, and synthesize knowledge.  
- Solve problems.  
- Develop the reasoning and critical thinking.

## Learning objectives of the subject

One of the objectives of this subject is provide the knowledge, understanding and proficiency of the competency "Plan and ensure safe loading, stowage, securing, care during the voyage and unloading of cargoes" and the competency "Carriage of dangerous goods", competencies required and 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.

These competences will be evaluated thought simulator in accordance of STCW Code.

- Deep knowledge of IMDG code for carriage of Dangerous Goods at sea  
- Knowledge of procedures before embarkment of DG.  
- DG Form knowledge.
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- MSDS knowledge.
- Knowledge of different international rules for DG transport: ADR/RID, IATA, IMDG.
- Knowledge of forces acting over the cargo on an underway vessel, calculations.
- Calculations of proper lashing for any good, as per his position on board and other parameters.
- IMO Rules, for lashing of different type of cargoes.

### Study load

<table>
<thead>
<tr>
<th>Total learning time: 45h</th>
<th>Hours large group:</th>
<th>45h</th>
<th>100.00%</th>
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### Content

#### Chapter 1. IMDG Code

**Learning time:** 62h 30m
- Theory classes: 22h 30m
- Self study: 40h

**Description:**
Deep Knowledge of IMDG code, procedures before embarkment of DG (STCW), documents needed, segregations, exemptions, and knowledge of different international rules for DG transport.

**Related activities:**
Visit to container vessel with DG

#### Chapter 2. Lashing

**Learning time:** 62h 30m
- Theory classes: 22h 30m
- Self study: 40h

**Description:**
Analysis of forces acting on cargo on board underway vessel, calculations of proper lashing for any good, as per his position on board and other parameters. IMO Rules, for lashing of different type of cargoes. (STCW Code)

### Qualification system

\[ N_{\text{Final}} = 0.35P_1 + 0.35NP_2 + 0.3(T+E) \]
- \(P_1\) first partial score
- \(P_2\) second partial score
- \(T\) Final work
- \(E\) practical exercises
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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 don't carry out any partial exam, will be considered as a "Not presented"

Bibliography

Basic:
