280682 - Short Sea Shipping

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2020
Degree: BACHELOR’S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT (Syllabus 2010).
ECTS credits: 6
Teaching languages: English

Prior skills
To have a minimum level of understanding and reading of English.

Requirements
To have passed previous subjects related to the Short Sea Shipping subject, like Marine legislation, Maritime economy or Marine english.

Degree competences to which the subject contributes

General:
3. ABILITY TO IDENTIFY AND SOLVE PROBLEMS IN THE FIELD OF ENGINEERING
4. Capacitat PER CONCEBRE, I MANAGE TO IMPLEMENT SISTEMES Complexos L’ambit of L’ENGINYERIA NÀUTICA I TRANSPORT MARÍTIM

Transversal:
1. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.
2. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

Teaching methodology
Magistral classe will be used to introduce the main topics
Working groups will be organised in order to be the responsible for developing the proposed class work and activities.
The results will be presented in class publicly and discussed among groups.

Learning objectives of the subject
The objective of the subject is to provide the student with an overall view of the short distance marien transport in Europe mainly.
This knowledge will be enriched with information of different type of ships, freights, volumes exchanged and the sustainability of the marine transport in itself.
## Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 30h</th>
<th>20.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 15h</td>
<td>10.00%</td>
</tr>
<tr>
<td></td>
<td>Hours small group: 10h</td>
<td>6.67%</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 5h</td>
<td>3.33%</td>
</tr>
<tr>
<td></td>
<td>Self study: 90h</td>
<td>60.00%</td>
</tr>
</tbody>
</table>
### Content

<table>
<thead>
<tr>
<th>Chapter 1: Introduction</th>
<th>Learning time: 8h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 8h</td>
</tr>
</tbody>
</table>

**Description:**
Chapter 1: Introduction

**Related activities:**
Up to 5 different activities would be proposed, mainly related with the reading and an abstract presentation to be discussed in class; of several documents proposed by the teacher.

**Specific objectives:**
Generalities on transport policy in Europe, will be presented and related regulations on customs and different procedures carried out in the transport chains.

<table>
<thead>
<tr>
<th>Chapter 2: The coastwise transport system</th>
<th>Learning time: 12h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 12h</td>
</tr>
</tbody>
</table>

**Description:**
Chapter 2: The coastwise transport system

**Related activities:**
Up to 5 different documents related with typologies of ships and cargoes moved in Spain - Europe. First exercises will be carried out regarding the time and costs, of different transport chains alternatives.

**Specific objectives:**
The three different pillars of the coastwise transport system will be dealt with. Freight regarding volumes and traffics in Europe, will be commented. Traffics regarding commercial exchanging areas will be viewed. Different type of ships will be analysed, mainly related with SSS traffics.

<table>
<thead>
<tr>
<th>Chapter 3: The port system</th>
<th>Learning time: 25h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 25h</td>
</tr>
</tbody>
</table>

**Description:**
Chapter 3: The port system

**Related activities:**
Up to 2 documents will be discussed and publicly defended abstracts on them. Different exercises will be carried out, regarding the viability of establishing a transport chain between two ports.

**Specific objectives:**
The port system will be analysed in Europe. The different type of ports, main ports in terms of volume and cargo type. Flows between ports also will be also analysed. Also Port CDM software will be introduced.
280682 - Short Sea Shipping

### Chapter 4: The sustainability of the SSS

**Learning time:** 12h  
Theory classes: 12h

**Description:**  
Chapter 4: The sustainability of the SSS

**Related activities:**  
Several documents will be analysed and the abstracts derived, will be discussed in class. Exercises related to the environmental performance of ships will be carried out, using models like CORINAIR, INFRASS or mOPSEA, inter alia.

**Specific objectives:**  
The main objective is to discuss the environmental performance of the Marine transport, its regulations and operational consequences. And them related to the road transport.

### Chapter 5: The high speed crafts

**Learning time:** 3h  
Theory classes: 3h

**Description:**  
Chapter 5: The high speed crafts.

**Related activities:**  
One activity will be designed in order to compare the time performance of such kind of ships.

**Specific objectives:**  
The incidence and application of such kind of ships, will be analysed, regarding the time of service due their speed but also their economic and environmental costs and fuel consumption.

### (ENG) -

**Degree competences to which the content contributes:**

---

**Qualification system**

Multi choice questionnaires: 10%  
Proposed exercises: 20%  
In class proposed exercises: 20%  
Final exam to be developed: 50%  
Final exam for all who have not passed during the course. However only reserved for the ones that have delivered all the scheduled activities.  
Re evaluation exam for all the students that have not passed the subject and based on the general conditions established in the normative.
280682 - Short Sea Shipping

**Regulations for carrying out activities**

The work in groups, should be developed by all of the members in the group, and will be asked to be demonstrated. For all the students that should go to the final exam, they will need to deliver all the course activities, before do the exam.

**Bibliography**

**Basic:**


**Others resources:**

Hyperlink

www.eurostat.eu

http://upcommons.upc.edu