Course guides

280712 - 280712 - Management of Port Terminals

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering.
Degree: MASTER’S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT MANAGEMENT (Syllabus 2016). (Compulsory subject).
Academic year: 2020  ECTS Credits: 5.0  Languages: Spanish

LECTURER

Coordinating lecturer:

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CE15-MNGTM. Conocimiento del transporte marítimo internacional, los mercados de fletes, la construcción y reparación, así como sus aspectos legales y económicos, la contratación y sus especificaciones.
CE17-MNGTM. Gestión de actividades portuarias.

General:
CG13-MNGTM. (ENG) Capacidad para dirigir, gestionar y explotar buques y artefactos flotantes, navieras y otras empresas marinas
CG14-MNGTM. Capacitat per al projecte i instal·lació d'equips nàutics i de seguretat del vaixell i instal·lacions marines, dins l’àmbit de la seva especialitat, és a dir, operació i explotació

CG15-MNGTM. (ENG) Capacidad para resolver problemas complejos y tomar decisiones con responsabilidad sobre bases científicas y tecnológicas en el ámbito de su especialidad

Transversal:
CT4. EFFECTIVE USE OF INFORMATION RESOURCES: Managing the acquisition, structuring, analysis and display of data and information in the chosen area of specialisation and critically assessing the results obtained.

CT5. FOREIGN LANGUAGE: Achieving a level of spoken and written proficiency in a foreign language, preferably English, that meets the needs of the profession and the labour market.

CT1. ENTREPRENEURSHIP AND INNOVATION: Knowing and understanding the organization of a company and the sciences that govern the activity; be able to understand the business rules and relationships between planning, industrial and commercial strategies, quality and profit.

Know and understand the mechanisms that scientific research is based, as well as the mechanisms and instruments of transfer of results between different socio-economic actors involved in the processes of R + D + I.
Basic:
CB6. Possess knowledge and understanding that provide a basis or opportunity
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.
CB9. That students can communicate their conclusions and the knowledge and
Latest rationale underpinning to specialists and non
Specialty clearly and unambiguously
CB10. Students must possess the learning skills that enable them
continue studying in a way that will be largely
self-directed or autonomous.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

- The functions of the Terminal within the global supply chain and international trade
- The role and functions of the manager in the successful and efficient operation of cargo and passenger terminals
- Understanding terminal types, configuration and operations
- How terminals are structured and their relationship to ocean carriers, trucking companies, the port and custom authorities and cargo
owners.
- How terminals generate revenue
- Technology and its effect on efficiency
- The importance of labor relations with workers and the role of stevedors
- Regulatory and environmental issues related to terminal operations

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>45,0</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Total learning time: 45 h

CONTENTS

Chapter 1: Types of port terminals: container, ro-ro passenger, gas, chemical, drybulk, monobuoys

Description:
Introduction to international supply chain and logistics. History of trade development and modern trade flows. Goods transported.
Globalisation and shipping: supply and demand. Historic development of ports and terminals. Role of ports and terminals and
global logistics chains. Type terminals according to the goods handled.

Full-or-part-time: 17h
Theory classes: 4h
Practical classes: 2h
Guided activities: 1h
Self study : 10h
### Chapter 2: Rules and laws of maritime terminals

**Description:**

**Full-or-part-time:** 17h  
Theory classes: 4h 30m  
Practical classes: 1h 30m  
Guided activities: 1h  
Self study: 10h

### Chapter 3: Terminal operation

**Description:**

**Full-or-part-time:** 17h  
Theory classes: 4h 30m  
Practical classes: 1h 30m  
Guided activities: 1h  
Self study: 10h

### Chapter 4: Terminal managing

**Description:**

**Full-or-part-time:** 17h  
Theory classes: 4h 30m  
Practical classes: 1h 30m  
Guided activities: 1h  
Self study: 10h

### Chapter 5: Multimodal Terminal

**Description:**
Port position in the intermodal chain. Strategies for improving competitiveness in the port node. Types of intermodal maritime terminals: container, general cargo unitized and ro-ro. Connection with the road and rail corridors. Railway terminals: features, layout and dimensioning. Areas of operation. Rail-port terminal and rail access

**Full-or-part-time:** 14h  
Theory classes: 1h 30m  
Practical classes: 1h  
Guided activities: 1h 30m  
Self study: 10h
Chapter 6: Law rules and docker teams

Description:

Full-or-part-time: 14h
Theory classes: 1h
Practical classes: 1h 30m
Guided activities: 1h 30m
Self study: 10h

Chapter 7: The container depot: types of dry containers, reefer and isotank

Description:

Full-or-part-time: 14h
Theory classes: 1h
Practical classes: 1h 30m
Guided activities: 1h 30m
Self study: 10h

Chapter 8: Tarifes i taxes portuàries: T0, T1, T2, T3, L7 ...

Description:
Analysis of the Consolidated Law on Ports RDL 02/2011, the administrative concession of the Port Authority and the cost of port marine space, concession and private terminals.

Full-or-part-time: 15h
Theory classes: 2h
Practical classes: 1h 30m
Guided activities: 1h 30m
Self study: 10h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

Complementary: