280618 - Stowage

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2018
Degree: BACHELOR'S DEGREE IN NAUTICAL SCIENCE AND MARITIME TRANSPORT (Syllabus 2010).
(Teaching unit Compulsory)
ECTS credits: 12
Teaching languages: Catalan, Spanish, English

Teaching staff
Coordinator: MARIANO BADELL SERRA
Others: Segon quadrimestre:
MARIANO BADELL SERRA - 1
FAICAL EL MACHHOUR - 1

Degree competences to which the subject contributes

Specific:
3. Knowledge of the organization and management capacity for repair projects, installation, modification and maintenance of loading equipment, storage and security systems and means of loading and auxiliary vessel.
4. Knowledge of maintenance equipment load measurement and control systems of the atmospheres of cargo space and equipment of tankers for transportation of liquefied petroleum natural gas oil, transportation of crude oil derivatives and chemicals.

Transversal:
1. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.

Learning objectives of the subject

The students at the end the subject will demonstrate:
- Know and is expert on the stowage and cargo lashing, systems.
- Is able to assess the loading and discharging, devices.
- Is able to carry out studies of stowage and lashing.
- Is able to design and calculate the cargo protection devices.
- Is able to organize and manage repairing projects, installation, modifying and maintenance of cargo, stowage and safety systems, cargo and auxiliary devices.

Competencies
The specific competencies included in CE 25, 26 and 27 together with the ones of chart A-II/1 of the STCW convention:
"Monitor the loading, stowage, securing, care during the voyage and the unloading of cargoes" and part of the chart A-II/2: "PLan and ensure safe loading, stowage, securing care, during the voyage and unloading cargoes".

### Study load

<table>
<thead>
<tr>
<th>Total learning time: 300h</th>
<th>Hours large group:</th>
<th>40h</th>
<th>13.33%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
<td>40h</td>
<td>13.33%</td>
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<tr>
<td></td>
<td>Hours small group:</td>
<td>2h</td>
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<td>Guided activities:</td>
<td>38h</td>
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<td>Self study:</td>
<td>180h</td>
<td>60.00%</td>
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<td>Content</td>
<td>Learning time: 26h</td>
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| (ENG) Estiba, evolución histórica. | Theory classes: 4h  
Practical classes: 4h  
Self study (distance learning): 18h |
| (ENG) Carga rodada. | Theory classes: 4h  
Practical classes: 4h  
Self study (distance learning): 18h |
| (ENG) Productos forestales. | Theory classes: 2h  
Self study (distance learning): 4h |
| (ENG) Contenedores. | Theory classes: 8h  
Practical classes: 10h  
Self study (distance learning): 41h |
| (ENG) Cereales. | Theory classes: 4h  
Practical classes: 4h  
Self study (distance learning): 18h |
| (ENG) Carbón, Minerales y concentrados. | Theory classes: 4h  
Practical classes: 4h  
Self study (distance learning): 18h |
## Bibliography

**Basic:**


**Complementary:**

International Association of Classification Societies.. Bulk carriers: guidance and information on bulk cargo loading and discharging to reduce the likelihood of over-stressing the hull structure. London: International Association of Classification Societies., 1997.


