280666 - Naval Equipment

**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 MARINE TECHNOLOGIES/BACHELOR'S DEGREE IN NAVAL SYSTEMS AND TECHNOLOGY ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)

BACHELOR'S DEGREE IN NAVAL SYSTEMS AND TECHNOLOGY ENGINEERING (Syllabus 2010). (Teaching unit Compulsory)

**ECTS credits:** 3

**Teaching languages:** Spanish

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**Teaching staff**

**Coordinator:** MANUEL RODRIGUEZ CASTILLO

**Others:** Segon quadrimestre:

MANUEL RODRIGUEZ CASTILLO - 1

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**Degree competences to which the subject contributes**

**Specific:**

1. Knowledge of naval equipment and auxiliary systems.

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**Teaching methodology**

Receive, understand and synthesize knowledge.

Documenting case studies

Develop critical thinking and reasoning and defend I oral or written form.

Perform work individually.

Prepare technical reports

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**Learning objectives of the subject**

Learn the basics of marine systems.

Know thoroughly the principles of operation, repair and redesign of existing systems aboard a ship.

Plans and conducts an oral presentation, responds appropriately to questions asked and correctly drawn basic technical level texts.

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**Study load**

<table>
<thead>
<tr>
<th>Total learning time: 75h</th>
<th>Hours large group: 25h</th>
<th>33.33%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours medium group:</td>
<td>2h</td>
<td>2.67%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>2h</td>
<td>2.67%</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>1h</td>
<td>1.33%</td>
</tr>
<tr>
<td>Self study:</td>
<td>45h</td>
<td>60.00%</td>
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</tbody>
</table>
# Content

| Overview of systems. | Learning time: 6h  
Theory classes: 6h |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Overview and introduction to systems.</td>
</tr>
</tbody>
</table>

| Bilge Service | Learning time: 4h  
Theory classes: 4h |
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Concept, functions and operations.</td>
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</tbody>
</table>

| Seawater service. | Learning time: 4h  
Theory classes: 4h |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Concept, functions and operation of fire services, flushing, ballast and cooling.</td>
</tr>
</tbody>
</table>

| Freshwater service | Learning time: 4h  
Theory classes: 4h |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Concept, functions and operation of refrigeration and health service.</td>
</tr>
</tbody>
</table>

| Air service. | Learning time: 4h  
Theory classes: 4h |
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<tr>
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</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Concept, functions and operations of the air vent and compress services.</td>
</tr>
</tbody>
</table>

| Fuel service. | Learning time: 4h  
Theory classes: 4h |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Concept, functions and operations of the fuel services.</td>
</tr>
</tbody>
</table>
**Lubrication service.**

**Description:**
Concept, functions and operational of the lubrication services.

**Learning time:** 4h
Theory classes: 4h

**Qualification system**

The final score is the sum of the following partial grades:

\[ N_{\text{final}} = 0.8 \, N_{\text{pf}} + 0.2 \, N_{\text{ac}} \]

- \( N_{\text{final}} \): final grade.
- \( N_{\text{pf}} \): final test score.
- \( N_{\text{ac}} \): continuous assessment.

The final test consists of a part with issues related to the learning objectives of the course with respect to knowledge or understanding concepts, and a set of application exercises.

Continuous assessment consists of different activities, both individual and group formative in nature, occurring during the course.

A final test will be conducted reassessment students who meet the requirements established by the regulations of the center, which will consist of a single test in which all of the matter that will be assessed during the course.

**Regulations for carrying out activities**

If any of the assessment activities is not done, shall be deemed not scored.

It is considered not submitted when not perform any tests.

**Bibliography**

**Basic:**

**Complementary:**