280666 - Naval Equipment

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2019
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

Degree competences to which the subject contributes

Specific:
1. Knowledge of naval equipment and auxiliary systems.

Teaching methodology

Receive, understand and synthesize knowledge.
Documenting case studies
Develop critical thinking and reasoning and defend l oral or written form.
Perform work individually.
Prepare technical reports

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.

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></td>
<td>Hours medium group: 2h</td>
<td>2.67%</td>
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<tr>
<td></td>
<td>Hours small group: 2h</td>
<td>2.67%</td>
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<tr>
<td></td>
<td>Guided activities: 1h</td>
<td>1.33%</td>
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<td></td>
<td>Self study: 45h</td>
<td>60.00%</td>
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</table>
### Content

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

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

| Seawater service    | Learning time: 4h  
Theory classes: 4h |
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<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 |
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<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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<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 |
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<thead>
<tr>
<th></th>
<th></th>
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</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.

Qualification system

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

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

- \( N_{\text{final}} \): 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: