280644 - Ship Theory

**Coordinating unit:** 280 - FNB - Barcelona School of Nautical Studies  
**Teaching unit:** 742 - CEN - Department of Nautical Sciences and Engineering  
**Academic year:** 2017  
**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)  
BACHELOR'S DEGREE IN MARINE TECHNOLOGIES (Syllabus 2010). (Teaching unit Compulsory)  
**ECTS credits:** 6  
**Teaching languages:** Catalan, Spanish

**Teaching staff**

**Coordinator:** Marcel·la Castells i Sanabra  
**Others:** Juan Carlos Múrcia González

**Opening hours**

**Timetable:** Marcel·la Castells i Sanabra. From 12:00 to 14:00 Thursday and from 12:00 to 14:00 Friday  
Juan Carlos Murcia González. From 09:00 to 10:00 Monday and from 11:00 a 12:00 Thursday

**Degree competences to which the subject contributes**

**Specific:**

1. Knowledge, use and application of the ship from the principles of the theory of the ship.

2. Knowledge of the fundamental concepts of fluid mechanics and its application to the hulls of ships and artifacts, and machines, equipment and naval systems.

**Teaching methodology**

- Receive, understand and synthesize knowledge.  
- Solve problems.  
- Develop the reasoning and critical Thinking

**Learning objectives of the subject**

This course will evaluate the following STCW competences:  
11. Maintain seaworthiness of the ship
Study load

<table>
<thead>
<tr>
<th>Total learning time</th>
<th>150h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>30h</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>15h</td>
</tr>
<tr>
<td>Hours small group</td>
<td>0h</td>
</tr>
<tr>
<td>Guided activities</td>
<td>15h</td>
</tr>
<tr>
<td>Self study</td>
<td>90h</td>
</tr>
</tbody>
</table>

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(ENG) (CAT) Introducción: principios, conceptos y coeficientes.
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Degree competences to which the content contributes:

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(ENG) (CAT) Propiedades y métodos.
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Degree competences to which the content contributes:

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(ENG) (CAT) Flotació, asentament i CH.
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Degree competences to which the content contributes:

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(ENG) (CAT) Estabilitat.
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Degree competences to which the content contributes:

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(ENG) (CAT) Varada.
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Degree competences to which the content contributes:

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(ENG) (CAT) Inundació.
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Degree competences to which the content contributes:
Qualification system

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

Nfinal = Npf0.4 + Npp0.4 + 0.2Nac

Nfinal: final score
Npf: final exam
Npp: partial exam
Nac: continuous assessment

Partial and final exam consists of some issues associated with the learning objectives of the course so that respects the knowledge and understanding concepts, and a set of application exercises. The continuous assessment consists of different activities cumulative and formative character, both individual and group, made during the course.

The act of re-evaluation will be done through a final exam where all the course material will be assessed.

Regulations for carrying out activities

You can't pass the course if all work activities and continuous assessment are carried out and submitted.

If the student does not carry out partial and/or final exam, he or she will be considered as: Not Presented

In any case, the student can use any kind of predesigned form in controls or tests.

Bibliography

Basic:


