280673 - Quality Management, Safety, Environment and Sustainability

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2020
Degree: BACHELOR'S DEGREE IN NAVAL SYSTEMS AND TECHNOLOGY ENGINEERING (Syllabus 2010).
ECTS credits: 4,5
Teaching languages: Catalan

Opening hours

Timetable: Tuesday: 10:00 - 13:00
           Thursday: 15:00 - 18:00

Degree competences to which the subject contributes

Specific:
3. Knowledge of systems for quality assessment, and regulatory and safety-related resources and environmental protection.

Transversal:
1. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 1. Analyzing the world’s situation critically and systemically, while taking an interdisciplinary approach to sustainability and adhering to the principles of sustainable human development. Recognizing the social and environmental implications of a particular professional activity.
2. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

Teaching methodology

- Receive, understand and synthesize knowledge.
- Set up and solve problems.
- Develop critical thinking and reasoning and defend it orally or in writing.
- Perform work and activities individually or in groups.
- Incorporate the gender perspective.

Learning objectives of the subject

At the end of the course the student can demonstrate that:
- Knows systems quality assessment.
- Knows the legal aspects of maritime safety and marine pollution.
- Recognizes the ethical, social and environmental implications of the profession of naval engineer.
- Study with books and articles in English and can write a report or technical work in English and participate in a workshop conducted in this language.

This course is included in the first UPC Gender and Teaching Project whose main aim is to incorporate the gender perspective in different degree courses.
## Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group: 25h</th>
<th>22.22%</th>
</tr>
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<tbody>
<tr>
<td>Hours medium group:</td>
<td>15h</td>
<td>13.33%</td>
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<tr>
<td>Hours small group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>5h</td>
<td>4.44%</td>
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<tr>
<td>Self study:</td>
<td>67h 30m</td>
<td>60.00%</td>
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## Content

| (ENG) Sistemes de qualitat i control de processos. | Learning time: 12h  
Theory classes: 3h  
Practical classes: 1h  
Self study : 8h |
|--------------------------------------------------|---------------------|

| Safety and Health at shipbuilding sector | Learning time: 17h  
Theory classes: 4h  
Practical classes: 2h  
Guided activities: 1h  
Self study : 10h |
|------------------------------------------|---------------------|

| Maritime Safety                          | Learning time: 17h  
Theory classes: 4h  
Practical classes: 2h  
Guided activities: 1h  
Self study : 10h |
|------------------------------------------|---------------------|

| Environmental Management Systems.        | Learning time: 13h  
Theory classes: 3h  
Practical classes: 2h  
Guided activities: 1h  
Self study : 7h |
<table>
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<tr>
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<tbody>
<tr>
<td>Description:</td>
<td>ISO 14000. EMAS Regulation Standards. Certification and environmental verification process. Environmental management systems.</td>
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<tr>
<td>Topic</td>
<td>Learning time</td>
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<tr>
<td><strong>Environmental technologies and sustainability</strong></td>
<td>18h 30m</td>
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Qualification system

The final score is the sum of the following partial grades:
\[ N_{final} = 0.5 \times N_{pf} + 0.3 \times N_{act} + 0.2 \times N_{aca} \]

- **Npf**: final test score.
- **Nact**: continuous assessment work.
- **Naca**: continuous assessment activities rating.

The final test consists of a part with issues related concepts to the learning objectives of the subject in knowledge or understanding, and a set of application exercises. Continuous assessment consists of different activities summative and formative, both individual and group, made during the course (in the classroom and outside of it).

The reassessment of the course will consist of a final exam that will include all the contents of the subject.

Regulations for carrying out activities

- If not any of the ongoing evaluation activities performed, shall be deemed not scored.
- Be deemed not submitted the student not present at the final test or have not submitted at least 50% of the work and activities.
Bibliography

Basic:


Complementary:


Others resources: