Course guide
280673 - 280673 - Quality Management, Safety, Environment and Sustainability

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering.
Degree: BACHELOR'S DEGREE IN NAVAL SYSTEMS AND TECHNOLOGY ENGINEERING (Syllabus 2010). (Compulsory subject).
Academic year: 2022 ECTS Credits: 4.5 Languages: Catalan

LECTURER

Coordinating lecturer: SANTIAGO ORDAS JIMENEZ
Others: Segon quadrimestre:
SANTIAGO ORDAS JIMENEZ - GESTN

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>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>25.0</td>
<td>22.22</td>
</tr>
<tr>
<td>Self study</td>
<td>67.5</td>
<td>60.00</td>
</tr>
<tr>
<td>Guided activities</td>
<td>5.0</td>
<td>4.44</td>
</tr>
<tr>
<td>Hours medium group</td>
<td>15.0</td>
<td>13.33</td>
</tr>
</tbody>
</table>

Total learning time: 112.5 h

CONTENTS

(ENG) Sistemes de qualitat i control de processos.

Description:

Full-or-part-time: 12h
Theory classes: 3h
Practical classes: 1h
Self study: 8h

Safety and Health at shipbuilding sector

Description:

Full-or-part-time: 17h
Theory classes: 4h
Practical classes: 2h
Guided activities: 1h
Self study: 10h

Maritime Safety

Description:

Full-or-part-time: 17h
Theory classes: 4h
Practical classes: 2h
Guided activities: 1h
Self study: 10h
Environmental Management Systems.

Description:
ISO 14000, EMAS Regulation Standards. Certification and environmental verification process. Environmental management systems.

Full-or-part-time: 13h
Theory classes: 3h
Practical classes: 2h
Guided activities: 1h
Self study: 7h

Prevention of Marine Pollution. Legal aspects.

Description:

Full-or-part-time: 15h
Theory classes: 3h
Practical classes: 2h
Guided activities: 1h
Self study: 9h

Environmental impact assessments

Description:

Full-or-part-time: 10h
Theory classes: 2h
Practical classes: 2h
Self study: 6h

Environmental technologies and sustainability

Description:

Full-or-part-time: 18h 30m
Theory classes: 4h
Practical classes: 2h
Guided activities: 1h
Self study: 11h 30m
Pollution from land-locked activity and navigation.

Description:

Full-or-part-time: 10h
Theory classes: 2h
Practical classes: 2h
Self study: 6h

GRADING SYSTEM

The final score is the sum of the following partial grades:
Nfinal = 0.5 Npf + 0.3 Nact + 0.2 Naca
Nfinal: final grade.
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.

EXAMINATION RULES.
· 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: