Course guide
280599 - 280599 - Maritime Technical English

Unit in charge: Barcelona School of Nautical Studies
Teaching unit: 756 - THATC - Department of History and Theory of Architecture and Communication Techniques.
Degree: BACHELOR'S DEGREE IN NAVAL SYSTEMS AND TECHNOLOGY ENGINEERING (Syllabus 2010). (Optional subject).
Academic year: 2022 ECTS Credits: 6.0 Languages: English

LECTURER

Coordinating lecturer: CLAUDIA BARAHONA FUENTES
Others: Primer quadrimestre: KING, TIMOTHY

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

Transversal:
CT5. 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.
CT7. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.

STCW:
ME.1. A-III/1-1. Function: Marine engineering at the operational level
ME.2. A-III/1-1.2 Use English in written and oral form
ME.3. A-III/1-KUP 1.2.1 Adequate knowledge of the English language to enable the officer to use engineering publications and to perform engineering duties
ETO.1. A-III/6-1. Function: Electrical, electronic and control engineering at the operational level
ETO.2. A-III/6-1.6 Use English in written and oral form
ETO.3. A-III/6-KUP 1.6.1 Adequate knowledge of the English language to enable the officer to use engineering publications and to perform the officer’s duties

TEACHING METHODOLOGY

Acquire enough technical English competence in order to perform the following actions in this language:
- Read and understand maritime publications
- Understand relevant messages for the safety of the ship
- Communicate in written and oral form in the maritime field
- Incorporate the gender perspective
- Develop adequate reasoning and critical thinking
- Learning to work cooperatively and autonomously
LEARNING OBJECTIVES OF THE SUBJECT

Understand maritime technical terminology.
Understand technical manuals and specifications in English. Look for and find information in English online resources.
Be able to communicate effectively in English. Plan and deliver oral presentations, respond adequately to questions posed and write basic technical texts correctly.
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>Self study</td>
<td>90,0</td>
<td>60.00</td>
</tr>
<tr>
<td>Hours large group</td>
<td>60,0</td>
<td>40.00</td>
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</tbody>
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Total learning time: 150 h

CONTENTS

1. Types of vessels

Description:
Vessels used for the transportation of cargo and passengers: general cargo ships, dry bulk carriers, liquid bulk carriers, container ships, Ro/Ro ships, coasters, reefers, Lash-vessels, heavy-load vessels, timber carriers, multi-purpose vessels and passenger ships.
Assistance and service vessels: tugs, salvage vessels, buoyage vessels, survey vessels, supply boats, SAR-vessels, firefloats, pilot tenders, cable layers, lightships, icebreakers and dredgers.

Related activities:
Practical activities: Description of the features of design and function of different types of vessels.

Related competencies:
04 COE N1. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.
03 TLG. 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.
A31-1.2.1. A-III/1-KUP 1.2.1 Adequate knowledge of the English language to enable the officer to use engineering publications and to perform engineering duties
A36-1.6.1. A-III/6-KUP 1.6.1 Adequate knowledge of the English language to enable the officer to use engineering publications and to perform the officer’s duties

Full-or-part-time: 29h
Theory classes: 4h
Practical classes: 4h
Laboratory classes: 1h
Guided activities: 2h
Self study : 18h
2. Ship's particulars

Description:
Description of ship's particulars.
Tonnage: displacement, weights and volumes, cargo spaces.
Dimensions: Moulded breadth, moulded depth, beam, length overall, length between perpendiculars, draft, air draft, freeboard and underkeel clearance.

Related activities:
Practical activities: description of the main particulars of vessels.

Related competencies:
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Full-or-part-time: 29h
Theory classes: 4h
Practical classes: 4h
Laboratory classes: 1h
Guided activities: 2h
Self study: 18h

3. Ship's general arrangement plan

Description:
Subdivision of a typical vessel.
Foreward section: Fore peak tank, forecastle, chain locker, hawsepipes.
Midship section: holds, tanks, double bottom, bilges.
After section: living quarters, navigation bridge, machinery spaces, after peak tank.
Expressions used to indicate position on board and outside the vessel

Related activities:
Practical activities: description of the characteristics and function of the different spaces and separations onboard. Positioning objects onboard and outside the vessel.

Related competencies:
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Full-or-part-time: 29h
Theory classes: 4h
Practical classes: 4h
Laboratory classes: 1h
Guided activities: 2h
Self study: 18h
4. Shipbuilding and classification of ships

Description:
Shipbuilding: the main structural parts of a ship, the propulsion system.
Classification of ships: classification societies (Lloyd's Register of shipping, Det Norske Veritas, etc.), the Register Book, surveys, classification symbols.

Related activities:
Practical activities: description of the shipbuilding and classification processes. Description of the advantages and disadvantages of the different types of propellers and rudders.

Related competencies:
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Full-or-part-time: 29h
Theory classes: 4h
Practical classes: 4h
Laboratory classes: 1h
Guided activities: 2h
Self study: 18h
5. Marine engineering

Description:
Diesel engines, the fuel system, lubrication, auxiliary engines, maintenance, repair, overhaul and survey. Electricity and electronics.
On-board departments and watchkeeping system.

Specific objectives:

Related activities:
Practical activities: description of the applications, advantages and disadvantages of the various types of engines, describing the sequence of events in two-stroke and four-stroke engines, giving trouble-shooting orders. Describing on-board departments and watchkeeping system.

Related competencies:
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Full-or-part-time: 34h
Theory classes: 6h
Practical classes: 6h
Laboratory classes: 2h
Guided activities: 2h
Self study: 18h

GRADING SYSTEM

The final mark is the result of the following assessment activities:
N_{final} = 0.5 \times N_{pf} + 0.30 \times N_{ac} + 0.20 \times N_{ti}
N_{final}: final mark
N_{pf}: final exam
N_{ac}: continuous assessment
N_{ti}: assignments and reports
N_{po}: oral presentations
The final exam consists of questions associated to the course learning objectives, concerning knowledge or comprehension, and of practical and applied tasks.
The continuous assessment consists of different brief activities and tests carried out during the course.
The assignments and reports can be individual or cooperative activities, which could be carried out inside the classroom or as homework.
The oral presentations can also be carried out individually or cooperatively.
The reassessment of the course will consist of a unique test including all the contents covered to acquire the corresponding learning objectives.

EXAMINATION RULES.

If any of the classroom tasks or continuous assessment tasks is not carried out, the task will not be marked.
A student will receive the final mark of "Absent" if he/she does not carry out at least a 70% of the course assessment activities.
BIBLIOGRAPHY

Basic:

Complementary:

RESOURCES

Hyperlink: