280638 - Maritime Technical English

**Coordinating unit:** 280 - FNB - Barcelona School of Nautical Studies

**Teaching unit:** 756 - THATC - Department of History and Theory of Architecture and Communication Techniques

**Academic year:** 2019

**Degree:** BACHELOR'S DEGREE IN MARINE TECHNOLOGIES (Syllabus 2010). (Teaching unit Compulsory) BACHELOR'S DEGREE IN MARINE TECHNOLOGIES/BACHELOR'S DEGREE IN NAVAL SYSTEMS AND TECHNOLOGY ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)

**ECTS credits:** 6

**Teaching languages:** English

### Teaching staff

**Coordinator:** CLAUDIA BARAHONA FUENTES

**Others:**

- Primer quadrimestre:
  - CLAUDIA BARAHONA FUENTES - 1

- Segon quadrimestre:
  - TIMOTHY KING

### Opening hours

**Timetable:**
- Mondays 12-14
- Tuesdays 10-11 and 13-14
- Fridays 10-12
- Office E108

### Degree competences to which the subject contributes

**Specific:**

**Transversal:**
1. 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.
2. 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.

### 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
280638 - Maritime Technical English

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. On the other hand, one of the objectives of this subject is provide the knowledge, understanding and proficiency of the competency: Use of spoken and written English. Sufficient knowledge of English so that the officer can use publications on marine machinery and develop his/her duties accordingly, competency required and defined in Section A-III/1 Mandatory minimum requirements for certification of officers in charge of an engineering watch in a manned engine-room or designated duty engineer in a periodically unmanned engine-room (propulsion power of 750 kW or more) of the Seafarers Training, Certification and Watchkeeping (STCW) International Code.

This course will evaluate the following STCW competences: A-III/1-2 and AIII/6-6. Use English in written and oral form and its associated knowledge, understanding and proficiency: Adequate knowledge of the English language to enable the officer to use engineering publications and to perform the officer’s duties A-III/1-3 and AIII/6-7. Use internal communication systems and its associated knowledge, understanding and proficiency: Operation of all internal communication systems on board A-III/1-1. Maintain a safe engineering watch Engine-room resource management. Knowledge of engine-room resource management principles, including: .2 effective communication .3 assertiveness and leadership

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: 150h</th>
<th>Hours large group: 22h</th>
<th>14.67%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 22h</td>
<td>14.67%</td>
</tr>
<tr>
<td></td>
<td>Hours small group: 6h</td>
<td>4.00%</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 10h</td>
<td>6.67%</td>
</tr>
<tr>
<td></td>
<td>Self study: 90h</td>
<td>60.00%</td>
</tr>
</tbody>
</table>
## Content

<table>
<thead>
<tr>
<th>(ENG) Types of vessels</th>
<th>Learning time: 29h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 4h</td>
</tr>
<tr>
<td></td>
<td>Practical classes: 4h</td>
</tr>
<tr>
<td></td>
<td>Laboratory classes: 1h</td>
</tr>
<tr>
<td></td>
<td>Guided activities: 2h</td>
</tr>
<tr>
<td></td>
<td>Self study: 18h</td>
</tr>
</tbody>
</table>

### 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. (A-III/1-2) (A-III/6-6)

### Related activities:

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

<table>
<thead>
<tr>
<th>(ENG) Ship's particulars</th>
<th>Learning time: 29h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Theory classes: 4h</td>
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<td>Guided activities: 2h</td>
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<td>Self study: 18h</td>
</tr>
</tbody>
</table>

### 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. (A-III/1-2) (A-III/6-6)

### Related activities:

Practical activities: description of the main particulars of vessels.
<table>
<thead>
<tr>
<th>(ENG) Ship's general arrangement plan</th>
<th>Learning time: 29h</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Theory classes: 4h</td>
</tr>
<tr>
<td>Subdivision of a typical vessel.</td>
<td>Practical classes: 4h</td>
</tr>
<tr>
<td>Foreward section: Fore peak tank,</td>
<td>Laboratory classes: 1h</td>
</tr>
<tr>
<td>forecastle, chain locker, hawsepipes.</td>
<td>Guided activities: 2h</td>
</tr>
<tr>
<td>Midship section: holds, tanks,</td>
<td>Self study: 18h</td>
</tr>
<tr>
<td>double bottom, bilges.</td>
<td></td>
</tr>
<tr>
<td>After section: living quarters,</td>
<td></td>
</tr>
<tr>
<td>navigation bridge, machinery spaces,</td>
<td></td>
</tr>
<tr>
<td>after peak tank. (A-III/1-2)</td>
<td></td>
</tr>
<tr>
<td>(A-III/6-6)</td>
<td></td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>(ENG) Shipbuilding and classification of ships</th>
<th>Learning time: 29h</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>Theory classes: 4h</td>
</tr>
<tr>
<td>Shipbuilding: the main structural parts of a</td>
<td>Practical classes: 4h</td>
</tr>
<tr>
<td>ship, the propulsion system.</td>
<td>Laboratory classes: 1h</td>
</tr>
<tr>
<td>Classification of ships: classification</td>
<td>Guided activities: 2h</td>
</tr>
<tr>
<td>societies (Lloyd's Register of shipping,</td>
<td>Self study: 18h</td>
</tr>
<tr>
<td>Det Norske Veritas, etc.), the Register</td>
<td></td>
</tr>
<tr>
<td>Book, surveys, classification symbols.</td>
<td></td>
</tr>
<tr>
<td>(A-III/1-2)</td>
<td></td>
</tr>
<tr>
<td>(A-III/6-6)</td>
<td></td>
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</tbody>
</table>

**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.
The final mark is the result of the following assessment activities:

\[
N_{\text{final}} = 0.5 \ N_{\text{pf}} + 0.30 \ N_{\text{ac}} + 0.20 \ N_{\text{ti}}
\]

- **Nfinal**: final mark
- **Npf**: final exam
- **Nac**: continuous assessment
- **Nti**: assignments and reports
- **Npo**: 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.

### Qualification system

**Description:**
- Diesel engines, the fuel system, lubrication, auxiliary engines, maintenance, repair, overhaul and survey.
- Electricity and electronics.
- On-board departments and watchkeeping system.
- (A-III/1-2) (A-III/6-6) (A-III/1-3) (AIII/1-1.2; 1.3)

**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.

**Specific objectives:**

### Qualification system

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### Regulations for carrying out activities

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:


Others resources:

Hyperlink

MarEng Learning Tool