280687 - Maintenance and Repair of Radionavigation Equipment and Radio Communication Systems

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 742 - CEN - Department of Nautical Sciences and Engineering
Academic year: 2019
Degree: BACHELOR'S DEGREE IN MARINE TECHNOLOGIES (Syllabus 2010). (Teaching unit Optional)
BACHELOR'S DEGREE IN MARINE TECHNOLOGIES/BACHELOR'S DEGREE IN NAVAL SYSTEMS AND TECHNOLOGY ENGINEERING (Syllabus 2016). (Teaching unit Optional)
ECTS credits: 6
Teaching languages: Catalan

Teaching staff

Coordinator: JAUME RECOLONS MARTOS
Others: Segon quadrimestre:
JAUME RECOLONS MARTOS - 1

Degree competences to which the subject contributes

Specific:
1. Knowledge of electronics applied to the ship and offshore installations and their application to board.

2. Knowledge and capacity to the operation, maintenance, redesign and repair of all existing systems on board a ship and ability to identify and address the different types of faults.

Generical:
3. ABILITY TO SHAPE, MANAGE AND IMPLEMENT COMPLEX SYSTEMS IN THE FIELD OF MARINE ENGINEERING.
Ability to design, management and implementation of processes, systems and/or services in the field of marine engineering, including the development of projects in the field of specialization, knowledge of basic materials and technologies, decision making, the management of the activities under the project, conducting measurements, calculations and valuations, managing specifications, regulations and mandatory standards, assessment of the social and environmental impact of technical solutions, economic valuation and resource human and material involved in the project, with a systematic and inclusive vision.

ENG) CG9. ABILITY TO SHAPE, MANAGE AND IMPLEMENT COMPLEX SYSTEMS IN THE FIELD OF MARINE ENGINEERING. Ability to design, management and implementation of processes, systems and/or services in the field of marine engineering, including the development of projects in the field of specialization, knowledge of basic materials and technologies, decision making, the management of the activities under the project, conducting measurements, calculations and valuations, managing specifications, regulations and mandatory standards, assessment of the social and environmental impact of technical solutions, economic valuation and resource human and material involved in the project, with a systematic and inclusive vision.
This course will evaluate the following STCW competences:

**E10. Maintenance and repair of bridge navigation equipment and ship communication systems**

**Learning objectives of the subject**

This course will evaluate the following STCW competences:

- **E10. Maintenance and repair of bridge navigation equipment and ship communication systems**

### Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 30h</th>
<th>20.00%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group: 15h</td>
<td>10.00%</td>
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<tr>
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<td>Hours small group: 10h</td>
<td>6.67%</td>
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<td></td>
<td>Guided activities: 5h</td>
<td>3.33%</td>
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<td>Self study: 90h</td>
<td>60.00%</td>
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Content

| (ENG) - Manteniment i reparació de línies de transmissió | Learning time: 12h  
Theory classes: 8h  
Laboratory classes: 4h |
|--------------------------------------------------------|
| (ENG) - Manteniment d'antenes | Learning time: 13h  
Theory classes: 9h  
Laboratory classes: 4h |
| (ENG) - Manteniment d'equips de radiocomunicacions | Learning time: 10h  
Theory classes: 6h  
Laboratory classes: 4h |
| (ENG) - Manteniment d'una unitat de radar | Learning time: 12h  
Theory classes: 10h  
Laboratory classes: 2h |
| (ENG) - Manteniment de sistemes de pont integrat | Learning time: 6h  
Theory classes: 4h  
Laboratory classes: 2h |

Bibliography

**Basic:**