280686 - Maintenance and Repair of Equipment and Electronic Systems

Coordinating unit: 280 - FNB - Barcelona School of Nautical Studies
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2017
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

Degree competences to which the subject contributes

Objectius:
* Form als estudiants per poder exercir la Professió D'Enginyer en GEM i GESTN, d'acord amb els requisits establerts en les reglamentacions aplicables.
* Conèixer les normes de les societats reguladores

Competencies: Coneixements de l'Electrònica aplicats a una nau:
* Manteniment
* Procediments de seguretat
* Tectona d'avaries
* Calibració d'Equips
* Tipologia de sistemes
* Equips i per fer la detecció d'equips, localització d'avaries d'abord i reparació d'equips

This course will evaluate the following STCW competences:
E.8 Maintenance and repair of electrical and electronic equipment
E.9 Maintenance and repair of automation and control systems of main propulsion and auxiliary machinery
E.11 Maintenance and repair of electrical, electronic and control systems of deck machinery and cargo-handling equipment
E.12 Maintenance and repair of control and safety systems of hotel equipment

Learning objectives of the subject

Specific:
1. Capacity for spatial vision and knowledge of mapping techniques, both traditional methods of geometry and metric geometry, as by the ions app computer-aided design.
# Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Total learning time</td>
<td>150h</td>
<td>100.00%</td>
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<tr>
<td>Hours large group:</td>
<td>30h</td>
<td>20.00%</td>
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<tr>
<td>Hours medium group:</td>
<td>15h</td>
<td>10.00%</td>
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<tr>
<td>Hours small group:</td>
<td>10h</td>
<td>6.67%</td>
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<tr>
<td>Guided activities:</td>
<td>5h</td>
<td>3.33%</td>
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<tr>
<td>Self study:</td>
<td>90h</td>
<td>60.00%</td>
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## Content

<table>
<thead>
<tr>
<th>(ENG) Normativa de les societats d'avaluació. DNV, ABS i SOLAS</th>
<th>Learning time: 37h 30m</th>
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<tbody>
<tr>
<td>Theory classes: 7h 30m</td>
<td></td>
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<tr>
<td>Practical classes: 2h 30m</td>
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<tr>
<td>Laboratory classes: 4h</td>
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<tr>
<td>Guided activities: 1h</td>
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<td>Guided activities: 22h 30m</td>
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<tr>
<th>(ENG) Sistemes electronics a bord, especificacions. Sensors a bord. Calibració d'equips electrònics</th>
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<tr>
<td>Self study: 22h 30m</td>
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<th>(ENG) Equipos electrónicos a bord para el mantenimiento calibración y reparación. Montajes</th>
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| (ENG) - | Degree competences to which the content contributes: |
Bibliography

Basic:


