### 280721 - Advanced on Board Electronic Systems

<table>
<thead>
<tr>
<th>Coordinating unit:</th>
<th>280 - FNB - Barcelona School of Nautical Studies</th>
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<tbody>
<tr>
<td>Teaching unit:</td>
<td>710 - EEL - Department of Electronic Engineering</td>
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<tr>
<td>Academic year:</td>
<td>2020</td>
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<tr>
<td>Degree:</td>
<td>MASTER'S DEGREE IN THE MANAGEMENT AND OPERATION OF MARINE ENERGY FACILITIES (Syllabus 2016). (Teaching unit Compulsory)</td>
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<td>ECTS credits:</td>
<td>5</td>
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<td>Teaching languages:</td>
<td>Catalan</td>
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#### Teaching staff

**Coordinator:** Torrents Dolz, Josep Maria

#### Prior skills

Electronics knowledge

#### Requirements

Having knowledge of the subject Naval Electronics 280647

#### Degree competences to which the subject contributes

**Basic:**

CB6. Possess knowledge and understanding that provide a basis or opportunity to be original in the development and/or application of ideas, often in a research context.

CB8. Students should be able to integrate knowledge and handle the complexity of making judgments based on information that, being incomplete or limited, includes reflections on the responsibilities social and ethical linked to the application of their knowledge and judgments.

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**Specific:**

CE6-MGOIEM. Capacitat per conèixer, entendre i utilitzar els principis dels sistemes de generació, transport i distribució d'energia

CE7-MGOIEM. Capacitat per conèixer, entendre i utilitzar els principis de control avançat de processos d'operació, manteniment i reparació

CE9-MGOIEM. Coneixement i capacitat per projectar operacions de manteniment de sistemes de cogeneració marins,
Learning objectives of the subject

objectives:
* To train students could practice the profession according eels requirements of the applicable regulations
* Learn the rules of corporate regulation
* Apply the boat Electronics

Skills to:
* Maintenance
* Detection of faults
* Calibration System board
* Understand security systems

This course will evaluate the following STCW competences:
Manage operation of electrical and electronic control equipment
Manage operation of electrical and electronic control equipment
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Manage trouble-shooting, restoration of electrical and electronic control equipment to operating condition

**Study load**

| Total learning time: 45h | Hours large group: | 45h | 100.00% |

**Content**

**Ship Electronic Systems**

| Learning time: 2h |
| Laboratory classes: 2h |

**Description:**
Apply basic electronics in a boat, to maintain, calibration and repair of electronic equipment

**Qualification system**

The final grade is calculated from three parameters with weights: 35% activities + 30% laboratory + 35% final exam.

**Bibliography**

**Basic:**


**Others resources:**

Laboratory of Electronics and ship Faculty