220612 - Energy Efficiency Supervision and Control

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2018
Degree: MASTER'S DEGREE IN AUTOMATIC SYSTEMS AND INDUSTRIAL ELECTRONICS (Syllabus 2012). (Teaching unit Optional)
ECTS credits: 5
Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: Jordi Zaragoza Bertomeu
Others: Néstor Berbel Artal

Degree competences to which the subject contributes

Specific:
1. Research, design, development and characterization of electric energy quality. Capacity to diagnose the different equipment that requires electromagnetics compatibility validation.
2. Research, design and development of energy management systems integrated in the electric grid, with its data systems.
3. Improve self-learning capacity

Teaching methodology

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 125h</th>
<th>Hours large group: 31h</th>
<th>24.80%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours small group: 14h</td>
<td>11.20%</td>
</tr>
<tr>
<td></td>
<td>Self study: 80h</td>
<td>64.00%</td>
</tr>
<tr>
<td>Course</td>
<td>Learning time:</td>
<td>Theory classes:</td>
</tr>
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<td>---------------------------------------</td>
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<tr>
<td>(ENG) Mòdul 1 Eficiència energètica</td>
<td>30h</td>
<td>8h</td>
</tr>
<tr>
<td>(ENG) Mòdul 3 Monitorització de xarxa eléctrica</td>
<td>34h</td>
<td>7h</td>
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<tr>
<td>(ENG) -</td>
<td>31h</td>
<td>8h</td>
</tr>
<tr>
<td>(ENG) -</td>
<td>30h</td>
<td>8h</td>
</tr>
</tbody>
</table>

Description: .
# Planning of activities

| (ENG) ACTIVITAT 1. CLASSES DE TEORIA | Hours: 56h  
Theory classes: 28h  
Self study: 28h |
|-------------------------------------|---------------------|
| (ENG) ACTIVITAT 2. CLASSES DE LABORATORI | Hours: 28h  
Laboratory classes: 14h  
Self study: 14h |
| (ENG) ACTIVITAT 3. AVALUACIÓ PARCIAL | Hours: 15h 30m  
Theory classes: 1h 30m  
Self study: 14h |
| (ENG) ACTIVITAT 4. AVALUACIÓ FINAL | Hours: 15h 30m  
Theory classes: 1h 30m  
Self study: 14h |

## Qualification system

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## Regulations for carrying out activities

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## Bibliography