Course guides
220612 - 220612 - Energy Efficiency Supervision and Control

Unit in charge: Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering.
Degree: MASTER'S DEGREE IN AUTOMATIC SYSTEMS AND INDUSTRIAL ELECTRONICS (Syllabus 2012). (Optional subject).

Academic year: 2020  ECTS Credits: 5.0  Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: 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 electromagnetic compatibility validation.
2. Research, design and development of energy management systems integrated in the electric grid, with its data systems.

Basic:
3. Improve self-learning capacity

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>31.0</td>
<td>24.80</td>
</tr>
<tr>
<td>Hours small group</td>
<td>14.0</td>
<td>11.20</td>
</tr>
<tr>
<td>Self study</td>
<td>80.0</td>
<td>64.00</td>
</tr>
</tbody>
</table>

Total learning time: 125 h
## CONTENTS

**ENG** Mòdul 1 Eficiència energètica

Description: .

**Full-or-part-time:** 30h
Theory classes: 8h
Laboratory classes: 2h
Self study: 20h

**ENG** -

Description: .

**Full-or-part-time:** 31h
Theory classes: 8h
Laboratory classes: 3h
Self study: 20h

**ENG** Mòdul 3 Monitorització de xarxa elèctrica

Description: .

**Full-or-part-time:** 34h
Theory classes: 7h
Laboratory classes: 7h
Self study: 20h

**ENG** -

Description: .

**Full-or-part-time:** 30h
Theory classes: 8h
Laboratory classes: 2h
Self study: 20h

## ACTIVITIES

**ENG** ACTIVITAT 1. CLASSES DE TEORIA

**Full-or-part-time:** 56h
Theory classes: 28h
Self study: 28h
(ENG) ACTIVITAT 2. CLASSES DE LABORATORI

Full-or-part-time: 28h
Laboratory classes: 14h
Self study: 14h

(ENG) ACTIVITAT 3. AVALUACIÓ PARCIAL

Full-or-part-time: 15h 30m
Theory classes: 1h 30m
Self study: 14h

(ENG) ACTIVITAT 4. AVALUACIÓ FINAL

Full-or-part-time: 15h 30m
Theory classes: 1h 30m
Self study: 14h

GRADING SYSTEM

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EXAMINATION RULES.

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