820245 - EICEE - Industrial Electronics for Energy Static Converters

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2015
Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN ENERGY ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional) BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
ECTS credits: 6
Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: Alfonso Conesa Roca

Degree competences to which the subject contributes

Specific:
1. Summarise information and undertake self-directed learning activities.

Transversal:
2. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group: 45h</th>
<th>30.00%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group: 0h</td>
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<tr>
<td></td>
<td>Hours small group: 15h</td>
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<td>Guided activities: 0h</td>
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<td></td>
<td>Self study: 90h</td>
<td>60.00%</td>
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<tr>
<td>Content</td>
<td>Learning time: 29h</td>
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</table>
| **(ENG) 1. Introducción.** | Theory classes: 9h  
Laboratory classes: 2h  
Self study : 18h |
| **(ENG) 2. Convertidores de DC-DC.** | Theory classes: 9h  
Laboratory classes: 4h  
Self study : 18h |
| **(ENG) 3. Convertidores de DC-AC.** | Theory classes: 9h  
Laboratory classes: 4h  
Self study : 18h |
| **(ENG) 4. Convertidores de AC-DC.** | Theory classes: 9h  
Self study : 18h |
| **(ENG) 5. Convertidores de AC-AC.** | Theory classes: 4h  
Self study : 6h |
| **(ENG) 6. Convertidores resonantes.** | Theory classes: 6h  
Laboratory classes: 4h  
Self study : 12h |
Bibliography

Basic:


Others resources: