820246 - LEIEIA - Industrial Electronics Laboratory

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: Spanish

Teaching staff
Coordinator: MANUEL ROMÁN LUMBRERAS
Others: MANUEL ROMÁN LUMBRERAS

Degree competences to which the subject contributes

Transversal:
1. 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 30.00%</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Hours medium group: 0h 0.00%</td>
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<td></td>
<td>Hours small group: 15h 10.00%</td>
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<td></td>
<td>Guided activities: 0h 0.00%</td>
</tr>
<tr>
<td></td>
<td>Self study: 90h 60.00%</td>
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| (ENG) Tema 1: Definición de las especificaciones del proyecto de CEEE | Learning time: 7h 30m  
Theory classes: 3h  
Self study: 4h 30m |
|---|---|
| (ENG) Tema 2: Sistema de potencia. | Learning time: 25h  
Theory classes: 10h  
Self study: 15h |
| (ENG) Tema 3: Cálculo y construcción de los componentes magnéticos | Learning time: 32h 30m  
Theory classes: 8h  
Laboratory classes: 5h  
Self study: 19h 30m |
| (ENG) Tema 4: Sistema de control | Learning time: 30h  
Theory classes: 8h  
Laboratory classes: 4h  
Self study: 18h |
| (ENG) Tema 5: Implementación física del proyecto | Learning time: 40h  
Theory classes: 12h  
Laboratory classes: 4h  
Self study: 24h |
| (ENG) Tema 6: Ensayos | Learning time: 15h  
Theory classes: 4h  
Laboratory classes: 2h  
Self study: 9h |
Bibliography

Basic:

Complementary:

Others resources: