820227 - IEEIA - Electronic Instrumentation

Coordinating unit: 295 - EEBE - Barcelona East School of Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2019
Degree: BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
ECTS credits: 6
Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: FRANCISCO JOSÉ CASELLAS BENEFITO
Others: Primer quadrimestre:
FRANCISCO JOSÉ CASELLAS BENEFITO - T11, T12, T13, T15
XAVIER MARIMON SERRA - T14
FRANCESC XAVIER ROSET JUAN - T11, T12, T13, T14, T15

Degree competences to which the subject contributes

Specific:
1. Understand the applications of electronic instrumentation.

Transversal:
2. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.

Learning objectives of the subject
### Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total learning time:</strong></td>
<td>150h</td>
<td></td>
</tr>
<tr>
<td>Hours large group:</td>
<td>45h</td>
<td>30.00%</td>
</tr>
<tr>
<td>Hours medium group:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Hours small group:</td>
<td>15h</td>
<td>10.00%</td>
</tr>
<tr>
<td>Guided activities:</td>
<td>0h</td>
<td>0.00%</td>
</tr>
<tr>
<td>Self study:</td>
<td>90h</td>
<td>60.00%</td>
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</tbody>
</table>
## 1. Introduction to the subject of electronic instrumentation.

**Learning time:** 1h  
Theory classes: 1h

**Description:**

**Related activities:**

**Specific objectives:**

## 2. Measures and analysis of basic signals.

**Learning time:** 9h  
Theory classes: 3h  
Laboratory classes: 2h  
Self study: 4h

**Description:**

**Related activities:**

**Specific objectives:**
# 3. Basic instruments.

**Description:**

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**Related activities:**

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**Specific objectives:**

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**Learning time:** 85h
  - Theory classes: 21h
  - Laboratory classes: 8h
  - Self study: 56h

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# 4. Measurement systems.

**Description:**

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**Related activities:**

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**Specific objectives:**

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**Learning time:** 54h
  - Theory classes: 20h
  - Laboratory classes: 4h
  - Self study: 30h
Bibliography

Basic:


Complementary: