230028 - SBMAV - Microprocessor-Based Audio and Video Systems

Coordinating unit: 230 - ETSETB - Barcelona School of Telecommunications Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2015
Degree: BACHELOR'S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
ECTS credits: 4.5  Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: -
Others:

Degree competences to which the subject contributes

Generical:
1. They will have acquired knowledge related to experiments and laboratory instruments and will be competent in a laboratory environment in the ICC field. They will know how to use the instruments and tools of telecommunications and electronic engineering and how to interpret manuals and specifications. They will be able to evaluate the errors and limitations associated with simulation measures and results.

Transversal:
2. EFFECTIVE USE OF INFORMATION RESOURCES - Level 2. Designing and executing a good strategy for advanced searches using specialized information resources, once the various parts of an academic document have been identified and bibliographical references provided. Choosing suitable information based on its relevance and quality.

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 112h 30m</th>
<th>Hours large group: 26h</th>
<th>23.11%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours small group: 13h</td>
<td>11.56%</td>
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<tr>
<td>Self study: 73h 30m</td>
<td>65.33%</td>
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</tbody>
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## Content

<table>
<thead>
<tr>
<th>Topic</th>
<th>Learning time</th>
<th>Theory classes</th>
<th>Laboratory classes</th>
<th>Self study</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(ENG) Tema 1. Microprocessor Systems</strong></td>
<td>48h 30m</td>
<td>12h</td>
<td>4h</td>
<td>32h 30m</td>
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<tr>
<td><strong>(ENG) Tema 2. A/ D and D/ A converters</strong></td>
<td>15h</td>
<td>2h</td>
<td>3h</td>
<td>10h</td>
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<tr>
<td><strong>(ENG) Tema 3. Special processing architectures</strong></td>
<td>35h 20m</td>
<td>8h</td>
<td>4h</td>
<td>23h 20m</td>
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<tr>
<td><strong>(ENG) Tema 4. Operating systems</strong></td>
<td>13h 40m</td>
<td>4h</td>
<td>2h</td>
<td>7h 40m</td>
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<tr>
<td><strong>(ENG) Pràctiques</strong></td>
<td>45h</td>
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### Specific objectives:
Planning of activities

(ENG) Proves de resposta curta (Control)

(ENG) Pràctica de laboratori

(ENG) Proves de resposta llarga (Examen Final)

Bibliography

Basic:
