340475 - SIAU-T7P39 - Audiovisual Systems

Coordinating unit: 340 - EPSEVG - Vilanova i la Geltrú School of Engineering
Teaching unit: 739 - TSC - Department of Signal Theory and Communications
Academic year: 2015
Degree: BACHELOR'S DEGREE IN ELECTRONIC SYSTEMS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits: 6
Teaching languages: Catalan

Teaching staff
Coordinator: Vicente Sales Zaragozá
Others: Joan Vicent Castell Balaguer

Degree competences to which the subject contributes

Specific:
1. CE18. Ability to distinguish net concepts of access and transport, circuits and package commutation nets, fixed and mobile nets, as well as of application systems of distributed nets, voic, data and audio services and interactive and multimedia services.
2. CE6. Ability to independently learn new skills and appropriate techniques to the design development or exploitation of systems and telecommunication services.

Transversal:
3. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.
4. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.
5. THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.
6. TEAMWORK - Level 1. Working in a team and making positive contributions once the aims and group and individual responsibilities have been defined. Reaching joint decisions on the strategy to be followed.
7. EFFECTIVE USE OF INFORMATION RESOURCES - Level 1. Identifying information needs. Using collections, premises and services that are available for designing and executing simple searches that are suited to the topic.

Learning objectives of the subject
### Study load

<table>
<thead>
<tr>
<th></th>
<th>Hours large group:</th>
<th>Hours medium group:</th>
<th>Hours small group:</th>
<th>Guided activities:</th>
<th>Self study:</th>
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<td><strong>Total learning time:</strong> 150h</td>
<td>15h</td>
<td>0h</td>
<td>30h</td>
<td>0h</td>
<td>105h</td>
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</table>
### Content

#### (ENG) Ondas sonoras

**Degree competences to which the content contributes:**

1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)

#### (ENG) Sistemas de captación

**Degree competences to which the content contributes:**

1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)

#### (ENG) Emisión acústica.

**Degree competences to which the content contributes:**

1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)

#### (ENG) Electrónica para señales acústicas

**Degree competences to which the content contributes:**

1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)
(ENG) Montajes acústicos

Degree competences to which the content contributes:
1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)

(ENG) Digitalización i compresión de la señal acústica

Degree competences to which the content contributes:
1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)

(ENG) Teoría del color

Degree competences to which the content contributes:
1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)

(ENG) Señal de video

Degree competences to which the content contributes:
1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)
(ENG) Procesado digital de imágenes

Degree competences to which the content contributes:
1 (Specific)
2 (Specific)
3 (Transversal)
4 (Transversal)
5 (Transversal)
6 (Transversal)
7 (Transversal)

Bibliography