230254 - SDR - Radio Systems and Devices

**Coordinating unit:** 230 - ETSETB - Barcelona School of Telecommunications Engineering

**Teaching unit:** 739 - TSC - Department of Signal Theory and Communications

**Academic year:** 2018

**Degree:**
- BACHELOR’S DEGREE IN TELECOMMUNICATIONS SYSTEMS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
- BACHELOR’S DEGREE IN TELECOMMUNICATIONS SCIENCE AND TECHNOLOGY (Syllabus 2010). (Teaching unit Optional)
- BACHELOR’S DEGREE IN NETWORK ENGINEERING (Syllabus 2010). (Teaching unit Optional)
- BACHELOR’S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Teaching unit Optional)

**ECTS credits:** 6

**Teaching languages:** Catalan, Spanish

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### Teaching staff

**Coordinator:** JOAN O’CALLAGHAN

**Others:** JOAN O’CALLAGHAN, SEBASTIÀ BLANCH

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### Prior skills

Basic previous knowledge in microwaves and antennas.

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### Teaching methodology

- Lectures
- Lab practise
- Group work
- Individual homework

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### Learning objectives of the subject

Ability to design, simulate and test radio systems and devices.

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### Study load

<table>
<thead>
<tr>
<th><strong>Total learning time:</strong> 150h</th>
<th>Hours large group: 26h</th>
<th>17.33%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hours small group: 26h</td>
<td>17.33%</td>
</tr>
<tr>
<td></td>
<td>Self study: 98h</td>
<td>65.33%</td>
</tr>
</tbody>
</table>
Planning of activities

(ENG) LABORATORI

(ENG) EXERCICIS

(ENG) CONTROLS DE RESPOSTA CURTA

Qualification system

Homework: 10%
Lab practises: 90%
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Bibliography

Basic: