Course guides
230035 - FMNT - Fundamentals of Micro- and Nanotechnologies

Unit in charge: Barcelona School of Telecommunications Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering.

Degree: BACHELOR'S DEGREE IN ELECTRONIC SYSTEMS ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR'S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Optional subject).

Academic year: 2021 ECTS Credits: 6.0 Languages: Catalan, Spanish, English

LECTURER
Coordinating lecturer: -Castañer Muñoz, Luis M.
Others: Castañer Muñoz, Luis M.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Transversal:
06 URI N3. 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.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>65,0</td>
<td>43.33</td>
</tr>
<tr>
<td>Self study</td>
<td>85,0</td>
<td>56.67</td>
</tr>
</tbody>
</table>

Total learning time: 150 h

CONTENTS

(ENG) Tema1. Introducció

Full-or-part-time: 9h
Theory classes: 2h
Practical classes: 0h 30m
Self study: 6h 30m
<table>
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<tr>
<th>Tema</th>
<th>Full-or-part-time</th>
<th>Time Distribution</th>
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| 2. Semiconductors | 57h 44m | Theory classes: 18h  
Practical classes: 4h 30m  
Self study: 35h 14m |
| 3. Dispositius fotònics | 34h 02m | Theory classes: 9h  
Practical classes: 2h 30m  
Self study: 22h 32m |
| 4. MEMS y NEMS | 14h 44m | Theory classes: 4h  
Practical classes: 1h  
Self study: 9h 44m |
| 5. Tecnologias y materiales | 18h | Theory classes: 5h  
Practical classes: 3h  
Self study: 10h |

**ACTIVITIES**

- (ENG) Presentació oral
- (ENG) Proves de resposta curta (Control)
- (ENG) Proves de resposta llarga (Control)
- (ENG) Proves de resposta curta (Test)
- (ENG) Exercicis
- (ENG) Proves de resposta llarga (Examen Final)
GRADING SYSTEM

BIBLIOGRAPHY

Basic: