Course guide
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 TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Optional subject).
Academic year: 2022 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>
</tr>
</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
(ENG) Tema 2. Semiconductors  
**Full-or-part-time:** 57h 44m  
Theory classes: 18h  
Practical classes: 4h 30m  
Self study: 35h 14m

(ENG) Tema 3. Dispositius fotònics  
**Full-or-part-time:** 34h 02m  
Theory classes: 9h  
Practical classes: 2h 30m  
Self study: 22h 32m

(ENG) Tema 4. MEMS y NEMS  
**Full-or-part-time:** 14h 44m  
Theory classes: 4h  
Practical classes: 1h  
Self study: 9h 44m

(ENG) Tema 5. Tecnologías y materiales  
**Full-or-part-time:** 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)
BIBLIOGRAPHY

Basic: