Degree competences to which the subject contributes

Specific:
6. CE11. Ability to comprehend, to develop, organize and manage nets, systems, telecommunication service and infrastructure in residential (home, cities, digital communities), company or institutional contexts.
7. CE17. Knowledge and use of the concepts of network architecture, protocols and communication interfaces.
8. CE19. Knowledge of interconnection and routing methods, as well as basics of planning, network dimensioning based on traffic parameters.
9. CE29. Ability to analyze and solve problems of interferences and electromagnetic compatibility.
10. CE6. Ability to independently learn new skills and appropriate techniques to the design development or exploitation of systems and telecommunication services.

Transversal:
1. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.
2. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.
3. 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.
4. TEAMWORK - Level 2. Contributing to the consolidation of a team by planning targets and working efficiently to favor communication, task assignment and cohesion.
5. 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

Teaching methodology

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340473 - COOP-T7P39 - Optical Communications

Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group:</th>
<th>15h</th>
<th>10.00%</th>
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<tr>
<td>Hours medium group:</td>
<td>0h</td>
<td></td>
<td>0.00%</td>
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<tr>
<td>Hours small group:</td>
<td>30h</td>
<td></td>
<td>20.00%</td>
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<td>Guided activities:</td>
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<td>Self study:</td>
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Content

(ENG) Part 1_Xarxes Òptiques

Degree competences to which the content contributes:

Description:
(ENG) Conèixer a nivell de sistema els components, les estructures i els protocols que permetran la transmissió i commutació d'informació per xarxes òptiques de gran ample de banda. Saber avaluar, calcular i dissenyar components i sistemes de transmissió i commutació òptica.

(ENG) Part 2_Dispositius Òptics

Degree competences to which the content contributes:

Description:
(ENG) Introducció als mecanismes físics de funcionament dels elements i dispositius òptics bàsics. Anàlisi de l'electrònica associada als emissors i receptors òptics. Realització pràctica d'una transmissió per fibra òptica de plàstic

Qualification system


Regulations for carrying out activities


Bibliography

Basic:


Complementary:


