Master's Dissertation 2015 - 2016

Code: 42849
ECTS Credits: 12

<table>
<thead>
<tr>
<th>Degree</th>
<th>Type</th>
<th>Year</th>
<th>Semester</th>
</tr>
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<tbody>
<tr>
<td>4313797 Telecommunication Engineering</td>
<td>OB</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

Contact

Name: Jose Lopez Vicario
Email: Jose.Vicario@uab.cat

Prerequisites

No requirements needed.

Objectives and Contextualisation

1. Apply knowledge and research methodology to propose a scientific work (related to research or business). This work must be viable and have a predetermined duration.
2. Perform an information search with a critical assessment of the sources.
3. Write a scientific report.
4. Present scientific results.

Skills

- Capacity for critical reasoning and thought as means for originality in the generation, development and/or application of ideas in a research or professional context.
- Demonstrate an entrepreneurial, creative and innovative spirit
- Maintain proactive and dynamic activity for continual improvement
- Production, presentation and defence of an original, individual exercise before a university panel, once all the credits in the syllabus have been obtained. This should consist of a professional style integrated telecommunications engineering project in which the competencies acquired on the course are synthesised.
- Respect and promote human rights, democratic principles, principles of sex equality, solidarity, universal accessibility and design for all, prevention of labour risks, environmental protection and promotion of a culture of peace
- Students should be capable of integrating knowledge and facing the complexity of making judgements using information that may be incomplete or limited, including reflections on the social and ethical responsibilities linked to that knowledge and those judgements
- Students should know how to apply the knowledge they have acquired and their capacity for problem solving in new or little known fields within wider (or multidisciplinary) contexts related to the area of study
- Students should know how to communicate their conclusions, knowledge and final reasoning that they hold in front of specialist and non-specialist audiences clearly and unambiguously

Learning outcomes

1. Capacity for critical reasoning and thought as means for originality in the generation, development and/or application of ideas in a research or professional context.
2. Demonstrate an entrepreneurial, creative and innovative spirit
3. Direct innovation and research projects and work teams in the area of telecommunications engineering.
4. Maintain proactive and dynamic activity for continual improvement
5. Plan and carry out innovation and research projects with content specific to the subject areas to be covered by students
6. Respect and promote human rights, democratic principles, principles of sex equality, solidarity, universal accessibility and design for all, prevention of labour risks, environmental protection and promotion of a culture of peace
7. Students should be capable of integrating knowledge and facing the complexity of making judgements using information that may be incomplete or limited, including reflections on the social and ethical responsibilities linked to that knowledge and those judgements
8. Students should know how to apply the knowledge they have acquired and their capacity for problem solving in new or little known fields within wider (or multidisciplinary) contexts related to the area of study
9. Students should know how to communicate their conclusions, knowledge and final reasoning that they hold in front of specialist and non-specialist audiences clearly and unambiguously

Content
See methodology section.

Methodology
Each student will be assigned a thesis supervisor. The work will be developed according to the guidelines established by the supervisor in accordance with the student.

The teaching methodology will combine meetings between the student and the supervisor, the autonomous work carried out by the student and presentation of results.

Activities

<table>
<thead>
<tr>
<th>Title</th>
<th>Hours</th>
<th>ECTS</th>
<th>Learning outcomes</th>
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<tbody>
<tr>
<td><strong>Type: Supervised</strong></td>
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<tr>
<td>Supervised work by thesis advisor</td>
<td>99</td>
<td>3.96</td>
<td>4, 8, 9, 7, 6</td>
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<tr>
<td><strong>Type: Autonomous</strong></td>
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<tr>
<td>Autonomous work by student</td>
<td>170</td>
<td>6.8</td>
<td>1, 2, 3, 5</td>
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Evaluation
The final grade will be obtained from:
- 40% Master thesis
- 30% final report of the activities carried out by the student provided by the thesis supervisor.
- 30% oral presentation.

Both reports will be delivered to the Master's coordinator two weeks in advance to the oral presentation.

Evaluation activities

<table>
<thead>
<tr>
<th>Title</th>
<th>Weighting</th>
<th>Hours</th>
<th>ECTS</th>
<th>Learning outcomes</th>
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</table>
## Final report by thesis advisor
- 30%
- 0
- 0
- 4, 8, 7, 6

## Master thesis
- 40%
- 30
- 1.2
- 1, 2, 3, 5

## Oral presentation
- 30%
- 1
- 0.04
- 9

### Bibliography

No bibliography.