Treball de Fi de Màster 2014/2015

Code: 42849
ECTS Credits: 12

Degree	Type	Year	Semester
4313797 Enginyeria de Telecomunicacions / Telecommunication Engineering	OB	2	1

Contact

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Use of languages

Principal working language: anglès (eng)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

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

Title	Hours	ECTS	Learning outcomes
Type: Supervised			
Supervised work by thesis advisor	99	3.96	4, 6, 7, 8, 9
Type: Autonomous			
Autonomous work by student	170	6.8	1, 2, 3, 5

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

Title	Weighting	Hours	ECTS	Learning outcomes
Final report by thesis advisor	30%	0	0	4, 6, 7, 8
Master thesis	40%	30	1.2	1, 2, 3, 5
Oral presentation	30%	1	0.04	9

Bibliography

No bibliography.