

Degree	Type	Year	Semester
4313797 Telecommunications Engineering	OT	2	1

Contact

Name: Jose Lopez Vicario

Email: Jose.Vicario@uab.cat

Prerequisites

This subject is for the second year of the master.

It is mandatory to contact to Master Coordinator to start the Company-University agreement procedure.

Use of languages

Principal working language: english (eng)

Objectives and Contextualisation

The goal is to do internships in the telecommunications sector to:

- Look further in the knowledge, skills and attitudes of professionals in Telecommunications Engineering
- Link students with the business reality of the sector
- Complement the theoretical training with practical experience in the field of technology.

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.
- "Capacity for the elaboration, direction, coordination and technical and economical management of projects about: systems, networks, infrastructures and telecommunication services, including the supervision and coordination of partial projects of coordination of part of its accompanying work projects; common telecommunications infrastructures in buildings or residential areas, including digital home projects; telecommunications infrastructure in transport and environment; with corresponding energy supply facilities and evaluation of electromagnetic emissions and electromagnetic compatibility."
- Capacity for working in interdisciplinary teams
- Demonstrate an entrepreneurial, creative and innovative spirit
- Maintain proactive and dynamic activity for continual improvement
- 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. Assess the discrepancies between the objectives and project planning, identifying the causes of the discrepancies and take the necessary corrective measures
2. 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.
3. Capacity for working in interdisciplinary teams
4. Demonstrate an entrepreneurial, creative and innovative spirit
5. Development, strategic planning, direction, coordination and technical and financial management of projects in the field of Telecommunications Engineering following quality and environmental criteria.
6. Direct, plan and supervise multidisciplinary teams
7. Maintain proactive and dynamic activity for continual improvement
8. Plan a project using a GANT chart
9. 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
10. 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
11. 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
12. 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

External practices developed by all students will have the supervision of an academic tutor and a tutor at the collaborating institution. At the beginning of the semester, both tutors will be responsible for defining a Training Project in accordance with the objectives of the Master in Telecommunication Engineering. Exceptionally, students may also propose a Training Project agreed individually with a cooperating entity.

The teaching methodology will combine meetings between the student and the supervisor / tutor and the autonomous work carried out by the student.

Activities

Title	Hours	ECTS	Learning outcomes
Type: Supervised			
Supervised work at company	200	8	2, 3, 11, 10, 9
Type: Autonomous			
Autonomous work by student	20	0.8	4, 12

Evaluation

The final grade will be obtained from:

- 60% final report of the activities carried out by the student provided by the supervisor of the company.
- 40% final report provided by the student.

Both reports will be delivered to the Master's coordinator at the end of the training period at the company.

Evaluation activities

Title	Weighting	Hours	ECTS	Learning outcomes
Final report provided by the student	40	5	0.2	1, 2, 3, 4, 6, 5, 7, 8, 11, 12, 10, 9
Final report provided by the supervisor	60	0	0	1, 2, 3, 4, 6, 5, 7, 8, 11, 12, 10, 9

Bibliography

No bibliography.