

**Degree Project**

Code: 102734  
ECTS Credits: 12

Degree	Type	Year	Semester
2500895 Electronic Engineering for Telecommunication	OB	4	0

**Contact**

Name: Javier Martin Martinez  
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**Use of Languages**

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

**Teachers**

Javier Martin Martinez

**Prerequisites**

To register the Final Degree Project it is necessary that the student has overcome everything first and one third of the 240 credits of the degree.

**Objectives and Contextualisation**

The objectives of the subject will be defined specifically for each Final of Degree Work as established in the current regulations.

**Competences**

- Communication
- Develop personal attitude.
- Develop personal work habits.
- Develop thinking habits.
- Draft, develop and sign projects in the field of telecommunications engineering designed to conceive, develop or exploit electronic systems
- Resolve problems with initiative and creativity. Make decisions. Communicate and transmit knowledge, skills and abilities, in awareness of the ethical and professional responsibilities involved in a telecommunications engineers work.

**Learning Outcomes**

1. Adapt to unforeseen situations.
2. Assess ones own knowledge and skills regarding the project subject identifying the shortcomings.

3. Choose the most suitable software and hardware tools and use them correctly.
4. Cite sources of information used in accordance with internationally recognised standards
5. Communicate efficiently, orally and in writing, knowledge, results and skills, both professionally and to non-expert audiences.
6. Critically evaluate the work done.
7. Defend the proposed solutions with logical and coherent arguments.
8. Develop critical thinking and reasoning.
9. Develop curiosity and creativity.
10. Develop independent learning strategies.
11. Develop systemic thinking.
12. Develop the capacity for analysis and synthesis.
13. Efficiently use ICT for the communication and transmission of ideas and results.
14. Evaluate the limitations regarding resources, personnel and location for producing a realistic work plan. Clearly establish the work hypotheses, defending its validity in accordance with the results obtained previously by the actual students or by third parties.
15. Explain the strategy used to search for information, showing consultation of the most important sources in the field of study
16. Identify regulations (laws, standards, etc.) susceptible to be considered in the end of degree project
17. Make ones own decisions.
18. Manage available time and resources. Work in an organised manner.
19. Prevent and solve problems.
20. Produce an original individual exercise and present and defend before a university tribunal, a professional project in the field of the specific technologies of Telecommunication Engineering which synthesises and integrates the skills acquired on the course.
21. Read English texts with a high degree of understanding
22. Reasonably explain the different options that have been considered when establishing how to deal with the initially proposed problem.
23. Work autonomously.
24. Work in complex or uncertain surroundings and with limited resources.

## Content

All students who take the subject of TFG must carry out a written report. which will consist of:

1. Cover according to an established format and that includes: anagram of the UAB, title of the TFG, title, name of the author, name of the Director (and coDirectors) where appropriate), name of the Tutor and date.
2. Content of the Report, with one entry per chapter and annex (s).
3. On the last page of the Author's Memory, you will sign the document.
4. On the back cover of the Report, a summary of the TFG will be recorded (less than 200 words) in Catalan, English and Spanish. Students must submit a final document of the Final Degree Project to a court and defend it in a public ceremony.

## Methodology

Students must submit a TFG memory and defend it in a committee

## Activities

Title	Hours	ECTS	Learning Outcomes
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Type: Supervised

Guidance meetings with supervisor	55	2.2	1, 6, 14, 4, 5, 7, 11, 10, 12, 9, 8, 3, 15, 22, 13, 18, 21, 17, 19, 20, 23, 24, 2
Type: Autonomous			
report writing	46.5	1.86	1, 6, 14, 4, 5, 7, 11, 10, 12, 9, 8, 3, 15, 22, 13, 18, 16, 21, 17, 19, 20, 23, 24, 2
Oral presentation	15	0.6	1, 6, 14, 4, 5, 7, 11, 10, 12, 9, 8, 3, 15, 22, 13, 18, 17, 19, 20, 23, 24, 2
TFG Development	180	7.2	1, 6, 14, 4, 5, 7, 11, 10, 12, 9, 8, 3, 15, 22, 13, 18, 16, 21, 17, 19, 20, 23, 24, 2

## Assessment

The defense of the Final Degree Works will last 15 minutes, in which the students will present the results of the work.

Subsequently there will be a period of questions from the committee.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
report writing	20%	2	0.08	4, 5, 15, 22, 21
Evaluation of the Committee	40%	0.5	0.02	1, 6, 14, 4, 5, 7, 11, 10, 12, 9, 8, 3, 15, 22, 13, 18, 16, 21, 17, 19, 20, 23, 24, 2
Oral presentation and defense	20%	0.5	0.02	5, 7, 22, 20
Supervisor evaluation	20%	0.5	0.02	1, 11, 10, 12, 8, 18, 16, 23, 24

## Bibliography

There is no general bibliography of the subject, although the student is expected to make use of specific bibliography and document it in the memory to be delivered.