

Professional Training

Code: 106537
ECTS Credits: 12

2024/2025

Degree	Type	Year
2500898 Telecommunication Systems Engineering	OT	4

Contact

Name: Antoni Morell Perez
Email: antoni.morell@uab.cat

Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

Those defined in the UAB permanence regime, in the section corresponding to the enrolment progression.

Since this is a fourth year subject, the student must have passed all first year subjects and a total of 120 credits from subjects comprised in the first three years.

Objectives and Contextualisation

The objective of the External Practices is to put students in touch with the professional world, so that they can apply and complement the competences acquired throughout their Degree studies through a training activity supervised by the School and carried out in a company or external institution. This training activity allows students to acquire a practical vision of the world of work and professional practice, thus facilitating their employability.

Competences

- Communication
- Develop ethics and professionalism.
- Develop personal attitude.
- Develop personal work habits.
- Develop thinking habits.
- Draft, develop and sign projects in the field of telecommunications engineering that, depending on the speciality, are aimed at the conception, development or exploitation of telecommunication and electronic networks, services and applications.
- Learn new methods and technologies, building on basic technological knowledge, to be able to adapt to new situations.
- 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 engineer's work.

Learning Outcomes

1. Adapt to unforeseen situations.
2. Apply the ideal methodology to develop the problem, combining theoretical developments and simulations as required.
3. Assume social, ethical, professional and legal responsibility, if applicable, derived from professional exercise.
4. Critically evaluate the work done.
5. Develop critical thinking and reasoning.
6. Develop curiosity and creativity.
7. Develop independent learning strategies.
8. Develop systemic thinking.
9. Develop the capacity for analysis and synthesis.
10. Efficiently use ICT for the communication and transmission of ideas and results.
11. Evaluate discrepancies between the objectives and planning of the project, identify the causes of these discrepancies and adopt the necessary corrective measures.
12. Evaluate the results of the project comparing them with similar results from external sources and identifying the new contributions made by the project to current knowledge about the subject.
13. Generate innovative and competitive proposals in professional activity.
14. Identify the specific aims of the project.
15. Make one's own decisions.
16. Manage available time and resources.
17. Plan a project using a Gantt chart.
18. Prevent and solve problems.
19. Seek, pose and expose different alternatives highlighting the importance and risk in relation to the execution of the project.
20. Synthesise the information obtained and one's own knowledge in a structured overview of the state of the art of the project's subject.
21. Work autonomously.
22. Work in complex or uncertain surroundings and with limited resources.

Content

The contents of the internship will be determined by the work plan that will be agreed between the company, the student and the academic tutor. In order to approve the proposed work plan, the contents must be adapted:

- To the profile and the academic situation of the student.
- To the specific competences of the undergraduate degree in telecommunication systems engineering.

Important: Work plans written in a generic manner and without a clear list of tasks with competencies in the field of telecommunication engineering will be rejected.

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Tutoring	5	0.2	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
Type: Supervised			
Internship	295	11.8	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

Internship announcements

Three possible sources of offers are available:

1. Proposals from the School of Engineering, for placements in collaborating organisations. Offers are posted in the Coordinació module at the Campus Virtual.
2. Offers of non-curricular placements made by the "Servei d'Ocupabilitat de la UAB" (employment service). The coordinator verifies that the training project meets the subject's needs in terms of its competences and characteristics. An agreement on curricular placements must be drawn up between the School and the company, and signed.
3. Proposals from students themselves through direct contact with a company or based on an offer posted on online platforms or social networks. Before signing the agreement and starting the placement, the coordinator has to confirm that the training project meets the requirements of the subject.

Internship duration

The duration of curricular internship agreements must be for a total of 300 hours.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Internship report	30%	0	0	4, 5, 9, 10, 11, 12, 14, 16, 17, 18, 20
Tutor assessment	70%	0	0	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

The assessment of the intership consists of two elements:

- Internship report (30%): brief summary of the activities carried out and results obtained.
- Tutor's report (70%) evaluating the internship.

The document lenght is restricted to 10 pages. Free format.

Bibliography

In each case, the student's tutor at the company / external institution will propose the adequate bibliography depending on the work to be carried out.

Software

- Depends on the company.

Language list

Information on the teaching languages can be checked on the CONTENTS section of the guide.

PROVISIONAL