UAB
Universitat Autònoma de Barcelona

2020/2021

Professional Training

Code: 103982
ECTS Credits: 12

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

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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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

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 contact with the professional world,

so that they can apply and complement the competences acquired throughout their undergraduate

studies through a training activity supervised by the School and carried out by a company or external institution.

This training activity allows students to acquire a practical view of the world of work and professional practice,

thus facilitating their employability.

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
- 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 engineers work.
- Work in a team.

Learning Outcomes

1. Apply the appropriate methodology to develop a problem, combining theoretical development and simulations as appropriate.
2. Communicate efficiently, orally and in writing, knowledge, results and skills, both professionally and to non-expert audiences.
3. Develop critical thinking and reasoning.
4. Develop curiosity and creativity.
5. Develop independent learning strategies.
6. Develop scientific thinking.
7. Develop systemic thinking.
8. Develop the capacity for analysis and synthesis.
9. Evaluate project results and compare them with similar results from external sources and identify new contributions by the project to current knowledge on the subject.
10. Evaluate the discrepancies between the objectives and the planning of a project, identify the causes of the discrepancies and adopt the necessary corrective measures.
11. Generate innovative and competitive proposals in professional activity.
12. Identify the specific objectives of the project
13. Maintain a proactive and dynamic attitude with regard to ones own professional career, personal growth and continuing education. Have the will to overcome difficulties.
14. Manage available time and resources. Work in an organised manner.
15. Manage information by critically incorporating the innovations of ones professional field, and analysing future trends.
16. Plan a project using a Gantt chart
17. Prevent and solve problems.
18. Search, tackle and expose different alternatives emphasizing their importance and risks in relation to project implementation.
19. Synthesize information obtained and ones own knowledge in a structured overview of the state of the art of the project matter.
20. Work autonomously.
21. Work cooperatively.

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.

Methodology

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.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Supervised			
Development of the practices	300	12	1, 9, 10, 18, 2, 6, 7, 5, 8, 4, 3, 11, 14, 15, 12, 13, 16, 17, 19, 21, 20

Assessment

The assessment of the internship consists of three elements:

- Report of the internship (30%): short report including the activites during the stay and obtained results.
- Report of the tutor at the company (60%), indicating his/her own assessment of the internship.
- Assessment of the academic tutor (10%), based on the periodic follow-up of the student and the evaluation of the results obtained.

The templates for these documents and the documentation presentation calendar will be reported within the space of the subject in the Campus Virtual.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Evaluation of the supervisor	10%	0	0	1, 9, 10, 18, 2, 6, 7, 5, 8, 4, 3, 11, 14, 15, 12, 13, 16, 17, 19, 21, 20
Report of the student	60%	0	0	1, 9, 10, 18, 3, 12, 16, 19, 20
report of the supervisor	30%	0	0	1, 9, 10, 18, 2, 6, 7, 5, 8, 4, 3, 11, 14, 15, 12, 13, 16, 17, 19, 21, 20

Bibliography

In each case, the Tutor of the student in the company / external institution will propose the appropriate bibliography based on the work to be done.