

Professional Training

Code: 103982
ECTS Credits: 12

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

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

Teachers

Javier Martin Martinez

Prerequisites

Those defined in the permanence regime of the UAB, within the section on enrollment progression.

As this is a fourth year subject, it is necessary to have passed at least all the subjects of the first year and a total

In addition, to take the subject: The student must have been selected by a company / institution

for a place in practice (once assessed suitability based on attitudes, knowledge and accredited skills).

The university / business educational cooperation framework agreement (if it does not already exist) and the spe

The student must register in person in academic management, after signing an accident and civil liability insuran
Incompatibilities The subject. External Practices is incompatible with carr

in the framework of an internship agreement, and vice versa. If the student wants to do external

internships and at the same time wants these practices to serve as a TFG, then it is necessary to

manage the practices from the beginning as curricular practices for TFG, signing a specific

agreement for this purpose through the School. You will not be able to register the subject of External Practices,

since with the agreement of practices for TFG you are already enjoying the opportunity to acquire an

experience in the labor world. It is the responsibility of the student to ensure compliance with this rule.

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 agreed between the company, the student and the academic tutor.

In order to give the approval at academic level, the contents must be adapted:

To the profile and the academic situation of the student.

In the specific competences of the degree curriculum in telecommunication systems engineering

Methodology

The person in charge of the subject will be responsible for making available to the students the offers of External Practices that are available through the coordination space of the Virtual Campus. Students interested in doing external internships can: Request some of them distributed through the head of the subject. Request other internship offers available at Campus Job (www.uab.es/treball-campus), or contact directly with companies looking for interns. In this case, the person responsible for the subject of External Practices will be informed in order to receive approval of the proposed training program and, where appropriate, proceed to prepare the corresponding agreements. Duration of External Practices The agreement signed between the three parties (company, student and university) may have a maximum duration of 700 hours, although for the purpose of academic recognition of the student's file, only a maximum of 300 hours (corresponding to 12 ECTS credits) for the completion of External Practices. For the internship of the student, a maximum of 20 hours per week is recommended during the school year.

Activities

| Title | Hours | ECTS | Learning Outcomes |
|------------------|-------|------|-------------------|
| Type: Supervised | | | |

Assessment

The evaluation of the subject of External Practices consists of three elements: Report of the tutor in the company / institution (50%), where an evaluation of the tasks carried out by the student during his internship period must be recorded. Student's report (40%), where it will include a detailed description of the work plan, the development thereof, the degree of compliance with the objectives set, and the results obtained. Evaluation of the academic tutor (10%), based on the periodic monitoring of the student and the overall assessment of the results obtained. The templates of these reports and the documentation submission calendar will be informed within the Virtual Campus's External Practices space.

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 | 40% | 0 | 0 | 1, 9, 10, 18, 3, 12, 16, 19, 20 |
| report of the supervisor | 50% | 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.