Work Placement II

Code: 44663
ECTS Credits: 9

Degree	Type	Year	Semester
4313797 Telecommunication Engineering	OT	2	1

Contact

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Use of Languages

Principal working language: english (eng)

Prerequisites

Successful completion of the first part of "Profesional Practices".

This is the second part of the "Profesional Practices" module which is split into two periodo for the purpose of evaluation. These credits are distributed in two subjects of 9 ECTS credits each, and that the student must pass to obtain recognition of external practices. These are the subjects "Professional Practices I" and "Professional Practices II", which correspond to the two halves in which the total duration of the student's external practices can be divided. This division in two blocks allows: 1) the carrying out an intermediate stage monitoring of the student, as established in RD-1707/2011 in article 13.2, and 2) create a differentiated profile between the first and second half of the internship period.

Objectives and Contextualisation

The first half of "Professional Practices" focuses on the development of technical skills in the field of Telecommunications Engineering, while the second half of the module "Professional Practices", will focus on the development of competencies in the field of management, without neglecting technical skills.

Competences

- "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 coordinación 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 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 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

The first half of "Professional Practices" focuses on the development of technical skills in the field of Telecommunications Engineering, while the second half of the module "Professional Practices", will focus on the development of competencies in the field of management, without neglecting technical skills.

Methodology

External practices developed by all students who choose this option 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.

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.

Activities

Title	Hours	ECTS	Learning Outcomes

Type: Supervised			
Supervised work at the collaborating entity.	200	8	1, 2, 3, 4, 6, 5, 7, 8, 10, 11, 12, 9
Type: Autonomous			
Autonomous work by student	20	0.8	1, 2, 3, 4, 6, 5, 7, 8, 10, 11, 12, 9

Assessment

The courses "42842 Professional Practices I" (WP1) and "42843 Professional Practices II" (WP2) are two half-modules with a value of 9 ECTS credits each. The student's external Work Placement (WP1+WP2) must be approved by the Coordinator prior to starting, with the standard Engineering School Agreement set up between the UAB and the external collaborating entity. The student must also be enrolled in both courses, WP1 & WP2, in order for these agreements to be established. Having a total of 18 ECTS credits, the total number of hours of dedication for WP1+WP2 is 450. The division into two half-modules is established in accordance with article 13.2 of RD-1707/2011, in order to permit a mid-course appraisal of student progress, as well as to create a differentiated profile between the first and second half of the internship. In particular, the first half will focus on the development of technical skills and problem solving in the field of Telecommunications Engineering, whilst the second half, although not necessarily abandoning technical skills, will focus more on the development of competencies related to organization, testing, and monitoring. Students should make it clear to the collaborating external entity, from the beginning, that these two aspects of the work-placement, technical and organizational, will be evaluated separately, and that although there is a high degree of flexibility in the overall planning of work, at the end of both periods the reports should reflect these different aspects.

The evaluations for WP1 and WP2 will be carried out separately and are weighted by the ratio 60% Company Tutor Evaluation (CTE): 40% Evaluation UAB (EUAB), where the former is based on the activities carried out by the student and supervised at the Company premises by the Company Tutor (CT), and the latter is based on the sequence of weekly questionnaires and the Student Final Report (SFR) produced by the Student and signed by the Tutor, presenting the evidences that support the responses given to the questionnaires throughout the course.

The completed and signed CTE must be sent directly by the CT to the Coordinator, by email. The SFR must be signed by both CT and student and deposited via the course module on the Campus Virtual.

Assessment 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, 10, 11, 12, 9
Final report provided by the supervisor.	60	0	0	1, 2, 3, 4, 6, 5, 7, 8, 10, 11, 12, 9

Bibliography

Some bibliography may be suggested by the collaborating entity.

Software

Some may be suggested by the collaborating entity.