

**COURSE DATA****Data Subject**

<b>Code</b>	34908
<b>Name</b>	Company internships degree in Telematics Engineering
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	12.0
<b>Academic year</b>	2023 - 2024

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. Period year</b>
1403 - Degree in Telematics Engineering	School of Engineering	4 Annual

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1403 - Degree in Telematics Engineering	20 - External internship in TE	External Practice

**Coordination**

<b>Name</b>	<b>Department</b>
FELICI CASTELL, SANTIAGO	240 - Computer Science

**SUMMARY**

The external practices aims to strengthen the training of university students in the operational areas of Institutions or Companies for professionals with a real insight into the problems and their interrelation, preparing future incorporation into productive work or research.

The University may establish agreements with institutions or companies, practical cooperation programs in which arrange their participation in specialized training and practical training required for students.

External practices programs will be established for the training of students in the final year of Degree and Master of the ETSE and must be made so as to suit the number of credits established.

The entity and activity to be performed will be assigned from a list of institutions and companies with the agreement established with the University of Valencia through ADEIT, or others with whom the student to establish a contact, subject to approval.



Dedication scheduled for this course is: tasks at the center where the practice is carried out 260 hours; meetings with university tutor 5 hours; attendance at courses and seminars 15 hours and report about the knowledge and the experience gained at the practice center 20 hours.

The organization and evaluation of the Final Project (TFG) is regulated by the Reglamet de Treball Fi deGrau, approved by the Council of Government of the University of Valencia(<http://www.uv.es/graus/PE/Reglament.pdf>) and instructions developed by the Escola Tècnica Superiord'Enginyeria of the University of Valencia ETSE-UV (<http://www.uv.es/uvweb/enginyeria/ca/estudisgrau/graus/practiques-externes/informacio-general/presentacio-1285968430540.html>)

## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

### Other requirements

The performance of the external practices required to have fully overcome the first two courses and 50% of the credits of the third.

## COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

### 1403 - Degree in Telematics Engineering

- R1 - Ability for self-learning of new knowledge and techniques appropriate for the conception, development and exploitation of telecommunications systems and services.
- G4 - Ability to solve problems with initiative, decision-making and creativity, and to communicate and transmit knowledge, abilities and skills, understanding the ethical and professional responsibility of the activity of a telecommunications technical engineer.
- G5 - Knowledge to carry out measurements, calculations, assessments, evaluations, loss adjustments, studies, reports, task planning, and other analogous work in the specific field of telecommunications.
- G8 - Knowledge and application of basic elements of economics and human resource management, project organization and planning, and legislation, regulations and norms in telecommunications.
- G9 - Ability to work in a multidisciplinary environment and in a multilingual group and to communicate, in writing and orally, knowledge, procedures, results and ideas related to telecommunications and electronics.
- G6 - Ability in the handling of specifications, regulations and norms of compulsory compliance.
- G7 - Ability to analyze and assess the social and environmental impact of technical solutions.



## LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

- Know how to detect needs and situations requiring professional intervention (G4, G5, G7, R1).
- Know how to identify useful resources that can carry out this procedure (G5, G8, R1).
- Know how to apply and develop this intervention (G5, G8, R1).
- Acquire appropriate professional skills (G4, G5, G8, G9).
- Develop skills of cooperation with other professionals (G9).
- Make contact with the specific aspects of professional practice (G4, G5, G8, G9).
- Ability to work in team (G9).
- Learn to manage different customer relationships (G4).
- Be aware of the ethical component and the ethical principles of professional practice (G6, G7).
- Become aware of the fundamental rights and equality between men and women in the workplace (G6,G7).

## DESCRIPTION OF CONTENTS

### 0. External practices

The contents of the course will be different depending on the specific practice that is to be carried out. The following activities are generic that and it can be performed during external practices:

- Computer network maintenance
- Design, development and maintenance of a web server
- Design, development and maintenance of a database
- Telecommunications systems
- Telematic Systems
- Analog and digital electronic systems
- Testing of electronic systems, computers and networks
- Configuration of networking systems
- Telecommunications projects for housing
- Structured Cabling Certification
- Computers and networks auditing
- Renewable energy



**WORKLOAD**

ACTIVITY	Hours	% To be attended
Internship		100
Internship	300,00	0
<b>TOTAL</b>	<b>300,00</b>	

**TEACHING METHODOLOGY**

Set of tasks in the center where the practice is performed, which shall include an integration of the student in the working environment (G4, G5, G6, G7, G8, G9, R1).

Others: class work while attending seminars or specific courses; student class work: preparing reports and presentation of results; individual or group tutoring.

**EVALUATION**

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The evaluation (G4, G5, G6, G7, G8, G9) will take into account: a) The report of the guardian of the company, will attest: (40%)

- Compliance with the estimated times.
- Ability to integrate into the working group.
- Assessment of the activity performed by the student.

b) The final report of the activities undertaken in the company, which objectively determine the difficulty of the tasks and the relation to the matters of degree. Contain at least the following (30%):

- Relationship of practical training studies conducted
- Input from the student at the center of practice
- New knowledge and skills acquired
- Relationship with center personnel practices and methodology work

c) courses or seminars you have attended the student, both taught by the university as the training center. (10%)

d) Interview the student with the teacher-tutor in college practices. (20%)

The shares allocated to each section are indicated in each case. The realization of the total hours of



practice is a prerequisite for the evaluation unless force majeure. The percentage of each subsection particular valuation depends on the judgment of the university tutor depending on the characteristics of the practice.

In any case the evaluation will be submitted to the statements of Reglament d'avaluació i qualificació de la Universitat de València per a títols de Grau i Màster.

## REFERENCES

### Basic

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