



## COURSE DATA

### Data Subject

|                      |                     |
|----------------------|---------------------|
| <b>Code</b>          | 34669               |
| <b>Name</b>          | Company internships |
| <b>Cycle</b>         | Grade               |
| <b>ECTS Credits</b>  | 12.0                |
| <b>Academic year</b> | 2023 - 2024         |

### Study (s)

| Degree                                | Center                | Acad. Period year |
|---------------------------------------|-----------------------|-------------------|
| 1400 - Degree in Computer Engineering | School of Engineering | 4 Annual          |

### Subject-matter

| Degree                                | Subject-matter                                   | Character         |
|---------------------------------------|--|-------------------|
| 1400 - Degree in Computer Engineering | 10 - External internship in computer engineering | External Practice |

### Coordination

| Name                        | Department             |
|-----------------------------|------------------------|
| MARTINEZ PLUME, JAVIER      | 240 - Computer Science |
| SORIANO GARCIA, FRANCISCO R | 240 - Computer Science |

## SUMMARY

The external practices aim to strengthen the training of university students in the operational areas of public organisations or private companies. Students should acquire an overview of the real problems when preparing future incorporation into productive work or research.

The University may establish agreements with institutions or companies and/or practical cooperation programs where arrange their participation in both specialized 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 an



agreement with the University of Valencia through ADEIT, or others with whom the student has established a contact, subject to approval by the External Practices Commission.

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.

## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

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

### Other requirements

For enrolling in the subject of external practices, it is needed to have fully surpassed the first two courses, or 150 credits of the curriculum.

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

### 1400 - Degree in Computer Engineering

- G1 - Ability to design, write, organise, plan, develop and sign projects in the field of computer engineering aimed at the design, development or exploitation of computer systems, services and applications.
- G7 - Ability to recognise, understand and apply the legislation required in the professional practice of computer engineering and to deal with mandatory specifications, regulations and standards.
- G11 - Ability to analyse and assess the social and environmental impact of technical solutions, and understanding of the ethical and professional responsibility of a computer engineer.
- G12 - Knowledge and application of the basic principles of economics and human resource management, project organisation and planning, and legislation, regulation and standardisation in the field of computer projects, in accordance with both the knowledge and the specific skills acquired in the degree.
- T11 - Ability to understand the environment of an organisation and its needs in the field of information and communication technology.
- T12 - Ability to select, design, implement, integrate, evaluate, build, manage, exploit and maintain hardware, software and network technologies, within adequate cost and quality thresholds.
- T13 - Ability to use user-centred and organisation-centred methodologies for the development, assessment and management of IT-based applications and systems, to ensure accessibility, ergonomics and usability.



- T14 - Ability to select, design, implement, integrate and manage communication networks and infrastructures in an organisation.
- T15 - Ability to select, implement, integrate and manage information systems that meet the needs of the organisation taking account of cost and quality criteria.
- T16 - Ability to design systems, applications and services based on network technologies, including the Internet, the web, e-commerce, multimedia, interactive services and mobile computing.
- T17 - Ability to understand, implement and manage the security and safety of computer systems.

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

- Know how detecting needs and situations requiring professional intervention.
- Know how to identify useful resources for carry out this procedure.
- Know how to apply and develop this intervention.
- Acquire appropriate professional skills.
- Develop cooperation skills with other professionals.
- Make contact with the specific aspects of professional practice.
- Ability to work together other professionals.
- Learn to manage different customer relationships.
- Be aware of the ethical component and the ethical principles of professional practice.
- Become aware of the fundamental rights and non-discrimination between men and women in the working place.

## DESCRIPTION OF CONTENTS

### 1. 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:

- Analysis, design and development of computer systems
- The implementation of computer systems
- The evaluation, maintenance and auditing of computer systems
- Management and coordination of computer-related projects



## 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
- Class work while attending seminars or specific courses
- Student home work: preparing reports and presentation of results
- Individual or group tutoring

## EVALUATION

The evaluation will take into account:

a) The report of company where practice was held, will indicate: (40%)

- Compliance with the estimated time-schedule.
- The ability to integrate into the working group.
- The assessment of the activity performed by the student.

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

- Relationship of the practice with the different studies subjects
- Inputs from the student at the center of practice
- New knowledge and skills acquired
- Relationship with center personnel practices and methodology of work

c) Courses or seminars that the student has attended, both taught by the university and the training center. (10%)



d) Interview with the tutor in the university (20%)

The percentages 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.

External practices must have into account the ETSE specific regulation which is available in <http://www.uv.es/etse>

The evaluation will be conducted in accordance with the University of Valencia Qualifications Legislation. At the time of writing this teaching guide, the current legislation is the one approved by the Governing Council of the UVEG in January 27, 2004, adjusted as provided for that purpose by the Royal Decrees 1044/2003 and 1125 / 2003. It states basically that the qualifications will be numbered from 0 to 10 with a decimal element and they must be accompanied with the qualitative rating in accordance with the following scale:

From 0 to 4.9: "Failed"

From 5 to 6.9 "Approved"

From 7 to 8.9, "Notable"

9 to 10: "Outstanding" or " Outstanding with honors"