COURSE DATA

DATA SUBJECT

Code: 36895
Name: External internships-Dual Mention
Cycle: Undergraduate Studies
ECTS Credits: 12
Academic year: 2026-27

STUDY (S)

Degree	Center	Acad. year	Period
1401 - Degree in Chemical Engineering	Escola Tècnica Superior d'Enginyeria	4	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
1401 - Degree in Chemical Engineering	External internships-Dual Mention	INTERNSHIPS

COORDINATION

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SUMMARY

The aim of these external internships is to strengthen the training of university students in the operational areas of institutions or companies in order to obtain professionals with a real vision of the problems and their interrelations, preparing their future incorporation into productive work or research.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

In order to successfully take the course, it is advisable that the student has passed the previous courses of the degree.
In order to be able to take the course, the student must have been selected to enroll in the option of Degree in Chemical Engineering- Dual Mention.

COMPETENCES / LEARNING OUTCOMES

1401 - Degree in Chemical Engineering

Ability to apply quality principles and methods.

Ability to handle specifications, regulations and standards of compliance.

Act autonomously in learning, make informed decisions in different contexts, issue judgements based on experimentation and analysis and transfer knowledge to new situations.

Analyse and evaluate the social and environmental impact of technical solutions.

Be able to understand and apply the legislation required for the practice of the profession of technical industrial engineer.

Collaborate effectively in work teams, assume responsibilities and leadership roles, and contribute to collective improvement and development.

Contribute to the design, development and implementation of solutions that respond to social demands, guided by the Sustainable Development Goals.

Demonstrate critical and self-critical thinking, considering professional ethics, moral values and social implications of the different activities carried out throughout the degree.

Know how to communicate effectively, both orally and in writing, adapting to the characteristics of the situation and the audience

Knowledge for carrying out measurements, calculations, valuations, appraisals, expert opinions, studies, reports, work plans and other similar work.

Organizational and planning skills in the business field, and other institutions and organizations.

Propose creative and innovative solutions to complex situations or problems, specific to the field of knowledge, to respond to diverse professional and social needs.

Solve problems with initiative, make decisions, think creatively and critically, and communicate and convey knowledge, skills and competences in the field of industrial engineering.

To know and understand, from within the field of the degree itself, the inequalities based on sex and gender in society; to integrate the different needs and preferences based on sex and gender in the design of solutions and problem resolution.

Work in a multilingual and multidisciplinary environment.

DESCRIPTION OF CONTENTS

UNIQUE MODEL

The Curricular Practice Model in the Bachelor's Degree in Chemical Engineering is unique and consists of the practical application in the field of professional action of the degree of the project methodology for the management of activities and resolution of complex technical problems.
1.- AREAS OR AREAS OF PROFESSIONAL ACTION: Technical departments in Chemical Engineering in public and private entities external to ETSE-UV.
2.- COMPETENCIES OR LEARNING OUTCOMES: those indicated globally as competencies and learning outcomes in the corresponding section of the teaching guide.
3.- PROFILE TUTOR COMPANY, INSTITUTION OR ENTITY: Chemical Engineer in public, private or free practice entities.
4.- DESCRIPTION OF POSSIBLE FUNCTIONS TO BE DEVELOPED: study, research, design, development, implementation, validation and testing, consulting, training, auditing, standardization, project management, operations management, infrastructure management, and any other technical activity in the field of Chemical Engineering.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at the internship centre	260,00
Attendance at supplementary activities	15,00
Monitoring and tutoring of internships	5,00
Total hours	**280,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent study and work	0,00
Preparation of supplementary reports	0,00
Preparation of the internship report and evaluation of the internship	20,00
Total hours	**20,00**

TEACHING METHODOLOGY

Within the programming of the subjects of the Dual Mention, the types of teaching activities that will be developed will be mainly:
MD5.- Attendance to courses and seminars: optional activity proposed, where appropriate, by the student, the university tutor or the company tutor. In case it is not carried out, the dedication will be complemented with attendance to the internship center.
MD7.- Lectures on the contents of each subject. In them, the topics will be developed providing a global and integrating vision, analyzing in greater detail the key aspects and of greater complexity, encouraging at all times, the participation of the student.
MD8.- Seminars or workshops.
MD10.- Tasks in the center where the internship is performed, which should include an integration of the student in the work environment of the company, receiving training from the company and providing solutions and initiative.
MD11.- Scheduled tutorials (individual or group).
MD12.- Practical activities that complement the theoretical activities in order to apply the basic concepts and expand them with the knowledge and experience acquired during the realization of the proposed work. Some of these activities will be carried out in small groups.

The company will appoint a company tutor and in turn the ETSE-UV will appoint an academic tutor. The coordination will be:
- Company tutor-academic tutor
- Company tutor - student
- Academic tutor-student
It is proposed that meetings be held, preferably face-to-face, with the following frequency:
- Company tutor-academic tutor: meetings will be held at the beginning and end of the training period. During this period, at least one meeting per month will be planned.
- Company tutor-student: at least one meeting at the beginning of the training, one every two weeks and at the end of the training period.
- Academic tutor-student: at least one meeting at the beginning of the training, biweekly and at the end of the training period.
The tutor appointed by the company must have higher education (Bachelor, Engineering or Degree) and will need to get the positive report from the joint committee overseeing dual training.
The tutor in the company will be responsible for coordinating the incorporation of the student, managing the planned training with the people in the company in charge of providing it, all with sufficient time in advance of the student's entry. In addition, he/she will ensure that the person to be trained receives the necessary equipment: PPE, work clothes, locker room assignment, etc.
The company tutor will meet, at least every two weeks, with the student to supervise his/her development and evaluate his/her work, indicating the points to be improved and his/her strong points. He/she will previously meet with the people who are providing his/her training to gather the necessary information for these follow-up meetings.
The academic tutor will ensure compliance with the training plan by the company and by the student and will mediate in case of conflict between the student and the company. Specifically, the academic tutor, through the coordination mechanisms, will ensure that the student acquires the learning outcomes foreseen in the training plan.

EVALUATION

It will be evaluated taking into account:
(a) The company tutor's report (40%).
b) The final report of the activities carried out in the company, which will objectively determine the difficulty of the tasks performed and the relation with the subjects of the degree. (30%)
c) Courses or seminars attended by the student, both given by the university and by the internship center (10%).
d) Interview of the student with the professor-tutor of the internship at the university. Other meritorious aspects (20%).

REFERENCES

- PASTOR, Gema (2008): Prácticas universitarias de calidad: gestión y seguimiento. Netbiblo.