COURSE DATA

DATA SUBJECT

Code: 34779
Name: Company internships degree in chemical engineering
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)
1934 - Double Degree Program in Chemistry-Chemical Engineering	Facultat de Química	5	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
1401 - Degree in Chemical Engineering	External internship in chemistry engineering	INTERNSHIPS
1934 - Double Degree Program in Chemistry-Chemical Engineering	Prácticas externas	INTERNSHIPS

COORDINATION

CHAFER ORTEGA AMPARO

LLOPIS ALONSO FRANCISCO

SUMMARY

The external practice 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.

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 / 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.

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, typical of the area of ¿¿¿¿connection, to donate responses to the various professional and social needs

Saber comunicarse de manera efectiva, tanto de forma oral como escrita, adaptándose a las características de la situación y de la audiencia

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

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 and it can be performed during external practices:

Design, simulation, planning, scheduling and optimization of industrial processes
Production and control of chemical processes
Exploitation and industrialization of natural resources
Technologies prevention and correction of pollution
Environmental Laboratory
WWTP: Wastewater Treatment Plants
Aspects of legal, economic and financial Engineering
Quality control, hygiene and safety
Transformation, arbitration, expertise, pricing, application and manufacturing of chemicals

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

- 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 class work: preparing reports and presentation of results.
- Individual or group tutoring.

EVALUATION

The evaluation will take into account:

a) The report of the guardian of the company, will attest: (40%)

- Compliance with the estimated times.
- 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 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. Other meritorious aspects.(20%)

The realization of the total hours of practice is a prerequisite for the evaluation unless force majeure.

The subject is considered overcome when the mark obtained is equal to or greater than 5 (over 10).

External practices must take into account the ETSE-UV specific regulation of external practices that can be found in http://www.uv.es/etse

Anyhow, the evaluation system will be based on the guides stated in the "Reglament d'Avaluació i Qualificació de la Universitat de València per a Graus i Màsters" (ACGUV 108/2017).

Copying or plagiarism of any activity that is part of the evaluation will result in the impossibility of passing the course, and the student will then be subject to the appropriate disciplinary procedures indicated in the ACTION PROTOCOL FOR FRAUDULENT PRACTICES AT THE UNIVERSITY OF VALENCIA (ACGUV 123/2020).

REFERENCES