COURSE DATA

DATA SUBJECT

Code: 45000
Name: Internship
Cycle: Master's Degree
ECTS Credits: 20
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2249 - Master's Degree in Chemistry	Facultat de Química	1	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
2249 - Master's Degree in Chemistry	Prácticas externas	INTERNSHIPS

COORDINATION

SAEZ CASES JOSE ANTONIO

SUMMARY

Intership dedicated to carrying out a stay in companies or organizations in the chemical or related sector selected b
The objetive is to reinforce the training of students in the field of chemical business to get a closer look at the real p

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

Chemistry and experimental work in the chemistry laboratory knowledge acquired during the Chemistry or other recommended entry degree are required.

COMPETENCES / LEARNING OUTCOMES

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Apply the advanced theoretical and practical knowledge gained in the different specialties of chemistry to

R&D and innovation.

Be able to conduct any type of research in the field of chemistry and/or the chemical industry, as a specialist.

Be able to design, conduct, analyse and interpret complex experiments and data, as a specialist.

Be able to present and defend publicly the results obtained in scientific research or as a result of work in a chemical industry.

Fomentar, en contextos académicos y profesionales del ámbito de la política económica,
el avance tecnológico, social o cultural dentro de una sociedad basada en el conocimiento y en el respeto a: a) los derechos fundamentales y de igualdad de oportunidades entre hombres y mujeres, b) los principios de igualdad de oportunidades y accesibilidad universal de las personas con discapacidad y c) los valores propios de una cultura de paz y valores democrático.

Have the ability to plan and to manage time and resources and gain experience in decision-making.

Possess the ability to plan and manage time and resources and gain experience in decision-making.

Possess the necessary skills to develop multidisciplinary activities within the field of chemistry at the master's level.

Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.

Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.

Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.

Students should demonstrate self-directed learning skills for continued academic growth.

Students should possess and understand foundational knowledge that enables original thinking and research in the field.

DESCRIPTION OF CONTENTS

1. External internships

This is a practical profile subject in which a project proposed by the company or organization will be carried out where the student will be integrated to carry it out. The specific contents of the work to be carried out will be the subject of the corresponding agreement signed with the company or body in which the practices are carried out. The work projects will be validated by those responsible for the subject and by the Academic Coordination Commission of the Master, paying special attention to the fact that the objectives and the methodology are adapted to the contents of the Master.

Below are some profiles of training programmes that students could follow for their external placements. These are not closed models, but guidelines. Examples:

1. Quality laboratories and/or analysis laboratories. Examples: research and organisation of normative documentation; sampling; treatment, conservation and conditioning of samples.

2. R&D laboratories. Examples: bibliographic review of a topic; organisation of bibliographic information in teams; design of experiments; chemical synthesis; analysis and characterisation.

3. Consultancies (environmental safety, certification). Examples: search and organisation of regulatory documentation; field work; supervision of procedures and application of regulations.

4. Production plant (chemical processes). Examples: training on the production process; control of raw materials; production planning.

5. Data processing/quality control. Examples: implementation of an in-plant data retrieval system; data collection and data formatting; data processing; experimental data analysis and decision making.

6. Work placement in UVEG laboratories. https://www.uv.es/graus/normatives/Reglament_PE_ACGUV.pdf (Art. 18). Examples: collaboration in bibliographic review/organisation, chemical synthesis, computational design, analytical techniques,...

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at the internship centre	0,00
Attendance at supplementary activities	0,00
Monitoring and tutoring of internships	0,00
Total hours	**0,00**

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	0,00
Total hours	**0,00**

TEACHING METHODOLOGY

The teaching methodology of this subject is based on attending an appropriate entity to carry out the corresponding intership, togheter wiht the tutoring and guidance both in the company and academically for the appropriate direction of the work. Therefore, each student will be assigned an academic tutor and a company tutor. Students will join the company or collaborating entity to carry out R&D work under the supervision of the company tutor. Before the beginning of the practices, both tutors will agree on the title, objectives and methodology of the task to be carried out by the student. The academic tutor will ensure the

adequacy of the development of the work to what is specified in the agreement and will provide the student with the schedule of tutorials to monitor the practices. The company tutor will inform the students about the organization and operation of the entity, supervise and guide its activities, providing the means and the complementary training that they need to carry out the internships. Both tutors will be in contact to resolve any doubt or problem situation that may arise or to make the necessary modifications in the initial project.

The administrative management of the Internship Agreements in this subject is the responsibility of the UV ADEIT service, under the supervision of the Academic Coordination Commission. For the selection of companies or entities, students will be presented with an offer with enough options so that they can choose according to their interests. The Academic Coordination Commission will ensure that the proposed work plan in each case is adequate to achieve the competencies and learning outcomes of the subject.

As communication support, the Virtual Classroom platform of the University of Valencia will be used, which allows teacher-student communication and the exchange of teaching resources such as the teaching guide, the external internship manual or the list of companies / organizations.

EVALUATION

In this subject, aspects related to the performance of the students during the internship will be evaluated mainly. At the end of the internship period, each student will prepare an ACTIVITY MEMORY, which will contain at least the following items:

1. General data of the practices.

2. Personal data.

3. Company / entity data.

4. Schedule and timetable of practices.

5. Brief description of the company / entity.

6. Activity report.

7. Description of tasks.

8. Assessment of the tasks in relation to the studies.

9. Objectives and work planning.

10. Assessment of training aspects.

11.Evaluation of the practices by the student and suggestions for improvement.

At the conclusion of the internship, the company tutor will make a final report in which they will assess the aspects referred to both the generic and specific skills of the work project: oral and written communication, problem solving, creativity, analytical skills critical, ability to assume responsibilities, transfer from theory to practice, social skills, adaptation to new and complex contexts, understanding the usefulness and scope of scientific research results, autonomy to participate in scientific and technological projects, ability to manage own professional development, planning and management of time and resources, decision-making, teamwork and mastery of skills and work methodologies. In this report, the company tutor will express an overall rating, on a scale of 0 to 10, which will represent 50% of the final grade for the subject.

For his part, the academic tutor will also issue a report in which he will assess the student's attitude in relation to carrying out and dedicating himself to the project. In said report she will include a grade, on a scale of 0 to 10, which will represent 25% of the grade for the subject. In addition, the academic tutor will evaluate the reports of activities presented and will rate them from 0 to 10. This grade will account for 25% of the final grade.

To consider the subject passed, the overall grade will have to be equal to or greater than five points.

REFERENCES

- Marco legal de las Prácticas en Empresa / Marc legal de les Pràctiques en Empresa / Legal framwork of the External Internship (R.D. 592/2014, BOE 30/07/2014, y el Reglamento de Prácticas externas de la Universitat de València /Reglament de les Pràctiques en Empresa de la UV / Regulations of the External Internships of the UV): https://www.adeituv.es/practicas/descargar-marco-legal/

- Modelo de la Memoria de Actividades de las Prácticas Externas/ Model de la Memòria d'Activitats de les Pràctiques Externes / Model of the Activities' Report for the External Internships: https://www.uv.es/uvweb/master-quimica/es/programa-del-master/tfm-1286043100805.html (Anexo XII)

- Modelo del Informe de valoración de las Prácticas Externas / Model de l'informe de valoració de les Pràctiques Exterenes / Model of the Assessment Report for the External Internships: https://www.uv.es/uvweb/master-quimica/es/programa-del-master/tfm-1286043100805.html (Anexo VIII)

- Guía para el tutor/a de empresa o entidad / Guia per al tutor/a d'empresa o entitat / Guide for the company or entity tutor: https://www.adeituv.es/practicas/guia-para-el-tutor/