

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

Code	44620
Name	External internships
Cycle	Master's degree
ECTS Credits	14.0
Academic year	2022 - 2023

Study (s)

Degree	Center	Acad. Period year
2218 - Master's Degree in Chemistry	Faculty of Chemistry	1 Second term

Subject-matter

Degree	Subject-matter	Character
2218 - Master's Degree in Chemistry	16 - External internships	External Practice

Coordination

Name	Department
IBAÑEZ PUCHADES, RAFAEL	320 - Inorganic Chemistry

SUMMARY

This subject is dedicated to the accomplishment of practices in companies or in public or private organisms in the chemical and related sectors, selected by the Academic Coordination Committee of the Master. With this course we intend to reinforce the training of students in the context of a chemical company to get a closer view of the real problems they will face in their professional development.

PREVIOUS KNOWLEDGE

**Relationship to other subjects of the same degree**

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

Other requirements

Prior knowledge of chemistry and experimental work in the laboratory of chemistry taught in the degrees indicated in the recommended income profile for the student of the master's degree are required.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)**2218 - Master's Degree in Chemistry**

- 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.
- Be able to solve complex chemistry problems, whether in the academic, research or industrial application areas at a specialization or masters-level.
- Possess the necessary skills to develop multidisciplinary activities within the field of chemistry at the master's level.
- Be able to design, perform, analyse and interpret experiences and complex data in the environment of chemistry at a specialization level.
- Acquire the necessary advanced knowledge to assess the importance of chemistry in economic and social development in a context of specialization.
- Be able to address any type of research in the field of chemistry and/or chemical industry at the level of disciplinary knowledge and appropriate specialization to master's studies.

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

To know the strategies of the organization and management in a chemical company and the rules for their activity.

To know the operation and structure of a chemical company and its relationship with the environment.

To know how to analyze and combine data from various studies and fields, taking into account the information and terminology commonly used in chemical industries or companies.

To perform a job in a company or organization related to the chemical industry or similars, according to its planning and needs, where the student will be integrated through the mandatory internship agreement.



DESCRIPTION OF CONTENTS

1. External internships

The specific contents of the work will be subject to the corresponding agreement, signed with the company or organization in which the internship will be carried out. The project will be validated by the persons in charge of the course and by the Academic Coordination Committee of the Master, paying particular attention to the objectives and methodology being adapted to the contents of the Master.

WORKLOAD

ACTIVITY	Hours	% To be attended
Internship		100
Development of individual work	15,00	0
Internship	320,00	0
Seguimiento y tutorización de Prácticas externas	15,00	0
TOTAL	350,00	

TEACHING METHODOLOGY

Each student will be assigned an academic supervisor/tutor and a company supervisor/tutor. Students will join the company (or collaborating entity) to carry out a R&D work under the supervision of the company tutor. Before the beginning of the internship, both tutors will agree on the title, objectives and methodology of the task to be performed by the student. The academic tutor will ensure the adequacy of the development of the work as specified in the agreement and will provide the student with the schedule of tutorials for the follow-up of the internship. The company tutor will inform the students about the organization and operation of the company, supervising and guiding their activities, providing them with the means and complementary training they need to carry out the internship. Both tutors will be in contact to solve any doubt or problematic situation that may arise, or to make the necessary modifications in the initial project.

The administrative management of the internship agreements is within the scope of the ADEIT service, always under the supervision of the Academic Coordination Commission. For the selection of the companies (or entities), an offer with enough options will be presented to the students, so they can choose according to their interests. The Academic Coordination Commission will ensure that the work plan proposed in each case is adequate to achieve the skills and learning outcomes of the subject. The students will use the results and conclusions of the tasks carried out during the internship in the company (or entity) to prepare, write and defend their Master's Final Project, within the framework of the subject of the same name.



EVALUATION

In this subject the aspects related to the performance of the students in the workplace will be evaluated. At the end of the internship period each student will write an **ACTIVITIES REPORT** of the **EXTERNAL INTERNSHIP**, which will contain at least the following items:

1. General data of the internship.
2. Personal data.
3. Data of the company / entity.
4. Calendar and schedule of the internship.
5. Brief description of the company / entity.
6. Activity report.
7. Description of tasks.
8. Assessment of tasks in relation to studies.
9. Objectives and work planning.
10. Assessment of the formative aspects.
11. Assessment of the stay by the student and suggestions for improvement.

At the end of the internship, the company tutor will deliver a final report in which he/she will assess the following aspects that refer to both, the generic and specific competencies of the project: oral and written communication skills, problem solving, creativity, ability for critical analysis, ability to assume responsibilities, transfer of theory to practice, social skills, adaptation to new and complex contexts, understanding of the usefulness and scope of the results of scientific research, autonomy to participate in scientific and technological projects, ability to manage their 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 a global grade, on the scale of 0 to 10, which will represent 60% of the final grade for the subject.

For his/her part, the academic tutor will also issue a report in which he/she will assess the attitude of the student in relation to the accomplishment and dedication to the project and the written memory. This report will include a grade, on the scale of 0 to 10, which will represent 40% of the grade of the subject.

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

REFERENCES

Basic

- Marco legal de las Prácticas en Empresa / Marc legal de les Pràctiques en Empresa / Legal framework 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): <http://www.adeituv.es/practicas-en-empresas/marco-legal/>



- Modelo del Informe de valoración de las Prácticas en Empresa por parte del tutor/a académico/a; Model de l'informe de valoració de les Pràctiques en Empresa per part del tutor/a acadèmic/a; Model of the Assessment Report for the External Internships, to be issued by the academic supervisor: <https://www.uv.es/master-quimica> (Pestaña/Pestanya/Tab: Programa del Master/ TFM/ anexo VIII)
- Modelo de la Memoria de Actividades de las Prácticas en Empresa / Model de la Memòria d'Activitats de les Pràctiques en Empresa / Model of the Activities' Report for the External Internships, to be written by the student: <https://www.uv.es/master-quimica> (Pestaña/Pestanya/Tab: Programa del Master/ TFM/ anexo XIIb)
- 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:
http://www.adeituv.es/download/practicas/Guia_tutor_empresa_UV_ADEIT_C.pdf