

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

Code	45001
Name	Trabajo final de Máster
Cycle	Master's degree
ECTS Credits	6.0
Academic year	2023 - 2024

Study (s)

Degree	Center	Acad. year	Period
2249 - M.D. in Chemistry	Faculty of Chemistry	1	Annual

Subject-matter

Degree	Subject-matter	Character
2249 - M.D. in Chemistry	9 - Trabajo Final de Máster	End Labour Studies

Coordination

Name	Department
ALBELDA GIMENO, MARIA TERESA	320 - Inorganic Chemistry

SUMMARY

In the subject Final Master's Thesis (TFM), each student must write and publicly defend a report on a research or R&D&I work carried out in a Research Center, Institute or Department in which the student has been integrated. The Academic Coordination Commission (CCA) of the Master has developed specific Guidelines (see references section) in which all the procedures that students must carry out in this subject are detailed.

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 knowledge acquired during the Chemistry or recommended entry degree are required.

OUTCOMES

2249 - M.D. 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.
- Possess the necessary skills to develop multidisciplinary activities within the field of chemistry at the master's level.
- Possess the ability to plan and manage time and resources and gain experience in decision-making.

LEARNING OUTCOMES

- Being able to propose R+D+i projects that improve the productivity and sustainability of the chemical sector.
- Be able to propose improvements related to new technologies.
- Be able to propose improvements related to sustainability.
- Be able to develop an entrepreneurial project in the chemical sector.
- Being able to prepare a clear and concise report of the results of a research project.
- Be able to present and defend the results of a research work.
- Knowing how to apply the knowledge acquired to contribute to the Sustainable Development Goals (SDGs), such as the sustainable management of water, raw materials and energy sources (SDGs 6 and 7) and to develop a professional work with the least environmental impact and using alternative raw materials (SDGs 11, 14 and 15)

DESCRIPTION OF CONTENTS

**1. Master's thesis**

Carry out research work in a branch of chemistry or related to a certain sector of the chemical industry on any of the following aspects: R & D & i, incorporation of new technologies, strategies to increase sustainability, entrepreneurship, etc.

Prepare a clear and concise memory of the results obtained as a result of the research work.

Publicly explain and defend the development, results and conclusions of the research work.

WORKLOAD

ACTIVITY	Hours	% To be attended
Graduation project		100
Development of individual work	30,00	0
*Realización del Trabajo Fin de Máster	109,00	0
Seguimiento i tutorización del Trabajo Fin de Máster	10,00	0
Presentación y defensa del Trabajo Fin de Máster	1,00	0
TOTAL	150,00	

TEACHING METHODOLOGY

Each student will have, from the beginning of the course, an offer of topics to carry out their TFM, being able to choose one of them or propose a different one, in which case it will have to be approved by the CCA of the Master.

The TFM will be prepared individually by each student, who will have the tutoring and guidance of at least one academic tutor.

Each student will present a written report that must follow the format established by the CCA of the Master in the Guidelines for the TFM subject (see the references section). The content of the report will be structured in the following sections:

- Summary (in two of the accepted languages)
- Index
- Introduction
- Objectives
- Experimental part
- Results and Discussion



- Conclusions
- Bibliography

Each student will orally defend her TFM in a public and face-to-face session.

EVALUATION

The TFM will be presented and evaluated once at least 30 ECTS credits of the Master have been passed. Outgoing mobility students, however, will be able to present their TFM even if the validation of some other subject carried out at the destination center is still pending. Incoming mobility students who enroll in this course will also be exempt from meeting this requirement.

The evaluating tribunals of the TFM will be formed by three members, appointed by the CCA of the Master. The tutor of a TFM may not, in any case, be part of the court responsible for evaluating the work of the tutored student.

The oral defense of the TFM will have a maximum duration of 15 minutes. The court may then ask the questions it deems appropriate, with a maximum duration of 20 minutes. The court will evaluate the ability to analyze and interpret data belonging to a research or R&D work, to apply the acquired chemical knowledge and solve complex problems, as well as to write a coherent report and defend it orally. The grade will be the weighted average of the following items:

- Report corresponding to the Master's Final Project, 60%.
- Presentation, exhibition and public defense of the Master's Final Project, 40%.

Each court may issue a proposal for the award of honors in the TFM (only to one candidate, who must have a score equal to or greater than 9.0 in the oral defense).

REFERENCES

Basic

- Directrices específicas para la asignatura Trabajo Fin de Máster del Máster Universitario en Química / Directrius específiques per a l'assignatura Treball Fi de Màster de l'Màster Universitari en Química / Specific guidelines for the subject Final Master's Thesis of the University Master's Degree in Chemistry: <https://www.uv.es/uvweb/master-quimica/es/programa-del-master/tfm-1286043100805.html>
- Instrucciones para el formato de la memoria del TFM / Instruccions per al format de la memòria del TFM / Instructions for writing the Master's Final Project report (Anexos VIa, VIb, VIc): <https://www.uv.es/uvweb/master-quimica/es/programa-del-master/tfm-1286043100805.html>
- Reglamento de estudios oficiales de postgrado en la Universitat de València / Reglament d'estudis oficials de postgrau a la Universitat de València / Regulations for official postgraduate studies at the University of Valencia: https://www.uv.es/postgrau/normativa/Reglament_estudis_postgrau.pdf