VNIVERSITAT DE VALÈNCIA

Course Guide
44621 Master's final project

COURSE DATA

Data Subject	
Code	44621
Name	Master's final project
Cycle	Master's degree
ECTS Credits	6.0
Academic year	2019 - 2020

Study (s)

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

Subject-matter

Degree	Subject-matter	Character
2218 - Master's Degree in Chemistry	14 - Master's final project	End Labour Studies

Coordination

Name	Department
GIMENEZ SAIZ, CARLOS	320 - Inorganic Chemistry

SUMMARY

In the subject Master’s Final Project (TFM), each student must write and publicly defend a report on a work that meets one of the following conditions:

(a) A research work carried out in a Research Centre, Institute or Department in which the student has been integrated.

(b) An R&D work carried out in a company or agency of the chemical or related sector in which the student has completed an internship.

The Academic Coordination Commission (CCA) of the Master has developed specific Guidelines (see references section) in which all the procedures that students must perform in this subject are detailed (registration of the topic of the TFM, changes of subject or tutor, defence application, etc).

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 is required, at the level taught in the qualifications listed in the recommended profile for admission of candidates to the Masters Degree.

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.
- Be able to present and defend publicly the results obtained from a scientific investigation or in a chemical industry.

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

- To elaboratte a clear and concise report of the results obtained in a research center or in a chemical company.
- To explain and defend publicly, the development, results and conclusions of a research work , or of a work done in a chemical company.

DESCRIPTION OF CONTENTS

1. Master Thesis work

Elaboration, exposition and public defense of the work carried out at the Research Placement or in a company (External Internship).

WORKLOAD

ACTIVITY	Hours	% To be attended
Graduation project		100
Seguimiento i tutorización del Trabajo Fin de Máster	10,00	100
Presentación y defensa del Trabajo Fin de Máster	3,00	100
*Realización del Trabajo Fin de Máster	137,00	0
TOTAL	**150,00**	

TEACHING METHODOLOGY

From the beginning of the course, each student will have at their disposal a sufficient offer of topics to carry out their TFM, being able to choose one of them or propose a different one. In this last case, the topic 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, whatever the itinerary chosen by the student (Academic or Professional).

Each student will present a written report that must follow the format established by the CCA of the Master in the *Guidelines for the Master's Final Project* (see the references section).

The contents 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 their TFM in a public and face-to-face session.

EVALUATION

The TFM will be presented and evaluated when at least 49 ECTS credits of the Master have been passed. Outgoing mobility students, however, may present their TFM even if the validation of some other subject at the destination centre is still pending. Incoming mobility students enrolling in this subject will also be exempt from meeting this requirement.

The evaluation tribunals of the TFM will consist of three members, appointed by the CCA of the Master. The supervisor of a TFM will not, under any circumstances, be part of the tribunal responsible for the evaluation of the work of the tutored student.

The oral defence of the TFM will have a maximum duration of 15 minutes. Then, the members of the tribunal will ask the questions they deem appropriate, with a maximum duration of 20 minutes. The tribunal will evaluate the ability to analyse and interpret data pertaining 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 defence of the Master's Thesis: 40%.

Each tribunal may propose only one candidate for the grade of Excellent with a special mention (with Honours) in this subject. The candidate must have a numerical grade equal to or greater than 9.0 in the oral defence.

REFERENCES

Basic

- Directrices específicas para la asignatura Trabajo Fin de Máster del Máster Universitario en Química, aprobadas por la CCA el 9 de mayo de 2018 y modificadas el 13 de mayo de 2019 / Directrius especifiques per a l'assignatura Treball Final de Màster del Màster Universitari en Química, aprovades per la CCA el 9 de maig de 2018 i modificades el 13 de maig de 2019 / Guidelines for the Master's Final Project of the Master in Chemistry, approved by the ACC on May 9 2018 and modified on May 13 2019 [https://www.uv.es/master-quimica (pestaña/pestanya/tab: Programa del Master / TFM)]

- Portada de la memoria del TFM / Portada de la memòria del TFM / Cover of the TFM report: https://www.uv.es/master-quimica (pestaña/pestanya/tab: Programa del Master / TFM / Anexo VIb)
- Formato de la memoria del TFM / Format de la memòria del TFM / Instructions for writing the Master's Final Project report: https://www.uv.es/master-quimica (pestaña/pestanya/tab: Programa del Master / TFM / Anexo VIa)
- Formato de las referencias bibliográficas de la memoria del TFM /Format de les referències bibliogràfiques de la memòria del TFM / Instructions for the bibliographic references: https://www.uv.es/master-quimica (pestaña/pestanya/tab: Programa del Master / TFM / Anexo VIc)
- Reglamento regulador de los Trabajos de Fin de Máster y de la concesión de premios extraordinarios de Máster en la Universitat de València / Reglament regulador dels Treballs Finals de Màster i de la concessió de premis extraordinaris de Màster a la Universitat de València / Regulations for the Master's Final Projects and awarding of extraordinary Master's prizes at the University of Valencia: https://www.uv.es/sgeneral/Reglamentacio/Doc/Estudis/C38.pdf

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

English version is not available