COURSE DATA

DATA SUBJECT

Code: 44427
Name: Master's final project
Cycle: Master's Degree
ECTS Credits: 15
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2208 - Master's Degree in Molecular Nanoscience and Nanotechnology	Facultat de Química	1	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
2208 - Master's Degree in Molecular Nanoscience and Nanotechnology	Master's final project	MASTER THESIS PROJECT

COORDINATION

CORONADO MIRALLES EUGENIO

SUMMARY

Development of a research work in this area.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

Previous knowledge of chemistry, physics or materials science as taught in the degrees indicated in the recommended admission profile to the master's degree is required.

COMPETENCES / LEARNING OUTCOMES

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For students from field of knowledge (e.g. chemistry) to be able to scientifically communicate and interact with colleagues from another field (e.g. physics) in the resolution of problems laid out by the Molecular Nanoscience and Nanotechnology.

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.

To have the ability to develop a research team work.

To know the methodological approaches used in Nanoscience.

To know the molecular nanoscience "state of the art".

To know the state of the art in molecular nanomaterials with optical, electric and magnetic properties.

To possess the necessary knowledge and abilities to continue with future studies in the PhD program in Nanoscience and Nanotechnology.

DESCRIPTION OF CONTENTS

1. Master dissertation.

Students will carry out an initiation to research work and will defend their master dissertation.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the master's thesis	35,00
Presentation and defence of the master's thesis	1,00
Total hours	**36,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the master's thesis	300,00
Preparation of the master's thesis project	39,00
Total hours	**339,00**

TEACHING METHODOLOGY

The teaching methodology is based on the same methodology that must be applied to carry out a theoretical or practical research project.

Students are expected to carry out the Master's thesis autonomously under the supervision of the tutor: the approach to the tasks and objectives, the collection of previous information, the methodology and design of the project, the obtaining and discussion of the results in the written report and the presentation and oral defence of the report.

EVALUATION

The evaluation of the Master's Thesis (TFM) conducted by the students will be carried out through the presentation of a report and public defence before the Master's Thesis Committee.

The examining board will be made up of three PhDs from the departments and centres related to the master's degree. As far as possible, one of the members of the examining board shall be from a university other than the student's university of registration. The tutor of a TFM may not, under any circumstances, form part of the panel responsible for the assessment of the tutored student's work.

The examining board will assess the student's ability to analyse and interpret data from a research project, to apply the scientific knowledge acquired and extrapolate it to the resolution of other scientific or technological problems, as well as their ability to write a coherent report, present it and defend it orally.

REFERENCES