

**COURSE DATA****DATA SUBJECT**

Code: 46993
Name: Master's Thesis
Cycle: Master's Degree
ECTS Credits: 30
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2278 - Master in Advanced Materials	Facultat de Química	1	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
2278 - Master in Advanced Materials	Trabajo Fin de Máster - Sin Mención Dual	MASTER THESIS PROJECT

COORDINATION**SUMMARY**

This module consists of the development of an introductory work to the investigation and defense of the Final Master's Thesis (TFM).

The Final Master's Theses are a key point for assimilating and putting into practice the knowledge acquired in the master's. They will be carried out throughout the academic year and individually and will be tutored by a professor from one of the universities participating in the master's degree, mostly from the university where the students are enrolled, regardless of whether it is done in another institution or in external companies.

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 entry profile to the master's degree is required.

**COMPETENCES / LEARNING OUTCOMES****DESCRIPTION OF CONTENTS**

The Final Master's thesis is organized around any topic that involves advanced materials, either practically or theoretically. It must be an original exercise carried out individually and defended before a university board.

The CCA of each university will be in charge of assigning to each student the subject of their TFM among those proposed by the university professors or doctors from external institutions or companies taking into account the preferences of all of them.

WORKLOAD**PRESENCIAL ACTIVITIES**

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the master's thesis	50,00
Presentation and defence of the master's thesis	1,00
Total hours	51,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the master's thesis	400,00
Preparation of the master's thesis project	299,00
Total hours	699,00

TEACHING METHODOLOGY

The training activities that the students will carry out are laboratory work, bibliographic review and the design of experiments, preparation of the report and presentation of the work, tutorials with the TFM tutor and, finally, presentation and defense of the work.

When the TFM is carried out in an institution or company, it must designate an external tutor who will collaborate, together with the academic tutor designated by the CCA based on the subject, in defining the content of the TFM and its development.

EVALUATION

The Final Master's Thesis will be evaluated by a panel composed of three doctors with experience in the field of advanced materials. As far as possible, at least one of them will be affiliated with an institution other than the one where the evaluated students are enrolled, preferably another university participating in this master's degree.

The evaluation of the Final Master's Thesis will be based on the report, the report prepared by



the tutor, the oral presentation and the public defense of the work.

In the evaluation process, criteria such as scientific and technical rigor, the originality and relevance of the **work** presented, as well as the student's capacity for analysis and synthesis will be considered. Likewise, the clarity, coherence and structure of both the written memory and the oral presentation will be assessed. During the **presentation and oral defense**, the student's ability to communicate ideas clearly, confidently and convincingly, as well as his mastery of the subject, will be evaluated. In addition, the ability to answer questions, argue and defend the work before the court in a grounded and rigorous way will be taken into account.

The evaluation of the Final Master's Thesis (TFM) will be comparable to the evaluation of a doctoral thesis, in which the evaluation panel has the autonomy and responsibility to establish the appropriate evaluation criteria, attending in any case to the aspects previously indicated. The evaluation by the court of the memory, the presentation and the defense will be comprehensive and joint, considering the complementarity of these elements to determine the overall quality of the work.

REFERENCES