

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

Code: 46822
Name: Master's Thesis
Cycle: Master's Degree
ECTS Credits: 14
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2273 - Master's Degree in Environmental Radiation Protection	Facultat de Física	1	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
2273 - Master's Degree in Environmental Radiation Protection	Trabajo fin de máster	MASTER THESIS PROJECT

COORDINATION

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DIAZ MEDINA JOSE

SUMMARY

The subject "Master's Thesis" has been designed as an academic work of initiation to research or innovation, directed by a tutor and carried out by a student with the subsequent presentation and defence of a report on the activities carried out.

The coordination of this subject corresponds to the local coordinators of the master's degree in each participating university, and among their functions are the coordination and supervision of the whole process of assigning lines of work and tutors, communication with the students for information and organisation of the TFM, the appointment and communication with the members of the tribunals that are to assess the work and the organisation of the public defence of the TFM.

The tutors in charge of directing the TFM are lecturers of the Master's Degree. The work carried out will preferably be supervised by a tutor. If there are co-tutors, the number of co-tutors may not exceed two. Students participating in a mobility programme and/or carrying out the TFM in other research centres or in a company, subject to the establishment of the corresponding agreement, will be co-supervised by a tutor, with a higher degree, linked to the institution where the project is carried out and a lecturer from the



master's degree.

The aim of the subject is for the student to apply the scientific and technical knowledge acquired throughout the Master's studies to the resolution of a specific problem in the field of Environmental Radiation Protection, and consists of the development of a theoretical or applied work.

The dissertation will be publicly defended before an examining board appointed for this purpose. The TFM may only be defended if all of the other 46 ECTS credits that form part of the syllabus have been passed. Exceptionally and with due justification, a student may defend the dissertation before completing the External Academic Practice subject, provided that this subject can be passed during the same academic year.

The agreement of the Management Committee of the Centre d'Estudis de Postgrau of 23 June 2020 approves the Regulations for the preparation and assessment of master's degree final projects at the UIB. [LF1].

[\[LF1\]](#)

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

No requirements have been established for this subject.

COMPETENCES / LEARNING OUTCOMES

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Be able to communicate conclusions, and the knowledge and rationale underpinning these, concerning ionising radiation, its use and effects on the environment, to specialist and non-specialist audiences, clearly and unambiguously.

Be able to integrate knowledge of the sources of radioactivity, its interaction with matter and its effects on living organisms and to handle the complexity of formulating judgements with incomplete or limited information, but that includes reflections on the social and ethical responsibilities linked to the application of knowledge and judgements.

Be able to prepare, present and defend, before a university examining board, an original work carried out individually consisting of a comprehensive study or project in the field of environmental radiological protection, synthesising the skills acquired, adopting advances and novelties in this field, and contributing



innovative ideas.

Demonstrate knowledge and understanding of ionising radiations that provide a basis or opportunity to be original in developing or applying ideas, often in a research context in the field of environmental radioactivity.

Have the learning skills that allow students to continue to study in a manner that may be largely self-directed or autonomous.

Know how to apply knowledge and problem-solving abilities in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the field of study.

Understand that any professional activity must be carried out with respect for fundamental rights, the promotion of gender equality, the principle of universal accessibility and design for all, environmental protection and in accordance with the values of a culture of peace and democratic values.

DESCRIPTION OF CONTENTS

The student will carry out a Master's Thesis on a subject related to Science, Technology, Management or Engineering in the field of Environmental Radiation Protection. The Master's Thesis is not a subject comparable to the rest of the modules or subjects, being focused not only on the student's learning, but also on their ability to project, demonstrate and defend it through a small monograph or specific text (TFM as a work) on a topic that will have been developed in agreement with a teacher-tutor/director. The work will be carried out individually, and will be defended before an examining board.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the master's thesis	23,00
Presentation and defence of the master's thesis	2,00
Total hours	25,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the master's thesis	325,00
Preparation of the master's thesis project	0,00
Total hours	325,00

TEACHING METHODOLOGY



MD2	Internships in specialised laboratories or computer rooms
MD4	Tutorías individuales o colectivas, con interacción profesorado-estudiantes
MD5	Individual or group tutorials, with teacher-student interaction
MD6	Assessments and examination

The local Master's coordinators, as the people in charge of the TFM, will be responsible for proposing, after consulting the rest of the Master's lecturers, lines of work and academic tutors to cover the teaching needs of the students enrolled.

At the end of the enrolment period, the local coordinator will inform the students of the subject about the offer of lines of work and possible tutors. This offer will be available in the subject area in the Digital Classroom throughout the academic year. Students will choose the line and tutor that best suits their interests and will submit their request in writing to the local coordinator of the Master, who will evaluate them and will be responsible for the assignments. As a general criterion and in the event that a proposal is requested by more than one student, their CVs and a brief report on the reasons for their choice will be requested. Assignments will be communicated to the students within a period of no more than 15 days after the request has been made and the Centre for Postgraduate Studies will be informed so that the appropriate academic effects can take place through the TFM registration process on the dates established at each University.

The teaching methodology for the TFM consists of an introductory research or innovation project. Students will attend individual tutorials for initial orientation and follow-up with their academic tutor. Once the research work has been completed, the student will prepare the corresponding report in Spanish, which must be submitted prior to its defence by means of the procedure established in the regulations governing the TFM at each university. The report presented will have the structure of a scientific article: Title of the work, Abstract, Introduction, Materials and Methods, Results and Discussion (together or separately), Conclusions and Bibliography.

The local TFM coordinator in agreement with the Academic Committee will determine the period or periods in which the TFM can be defended. The submission of the TFM reports shall be made at least 7 calendar days before the date set for the defence of the reports. The local coordinator will inform students about the defence periods at the beginning of the course. In general, and without prejudice to any changes that may occur due to justified causes or force majeure, a defence period will be scheduled during the month of July of each academic year. The submission of the report constitutes the student's application for assessment of the dissertation.

The presentation and public defence of the final project of the master's degree will be carried out in front of a panel made up of lecturers/researchers with doctorates, appointed by the local coordinator of each



university, following the guidelines of the regulations of each university.

Both the tutor/s and the examining board will have at their disposal in the MCTE Digital Classroom space the rubrics developed for the evaluation of the execution of the work and the report and its presentation and defence. The rubrics will be available for students to consult in the TFM-research project section of the Digital Classroom. In these spaces it will also be possible to consult the regulations governing the TFM, and any other relevant documentation for the subject.

EVALUATION

1. Presentation and defence of the TFM

Description: AF6 Presentation and defence of the TFM. The defence of the TFM will take place in a public event during which the student will have a maximum of 30 minutes for the oral presentation of the work. Once the presentation is finished, the examining board will open a question and answer session for a maximum of 90 minutes.

Hours: 2

Assessment criteria: SE5 Presentation and defence of the TFM: assessment of its public presentation, taking into account both its technical validity and the student's documentation and communication skills. The structure and format of the work submitted and the presentation and defence will be assessed by means of the rubrics established for this purpose. Learning outcomes CN1, CN2, CN3, HA1, CM1, CM4 and CM7 will be assessed.

REFERENCES

The research work can be carried out on any topic proposed by the tutors and which is related to environmental radiation protection. Therefore, the general and specific bibliography recommended will depend on the assigned project. The bibliographic search related to the research work constitutes a fundamental part of the activity to be carried out by the student. For this purpose, the bibliographic resources of each university are available, where the student will have access to the electronic journals, books and databases available.