COURSE DATA

DATA SUBJECT

Code: 47094
Name: Master's Thesis
Cycle: Master's Degree
ECTS Credits: 9
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2285 - Máster Universitario en Contaminación Ambiental y Ecotoxicología	Facultat de Ciències Biològiques	1	Annual

SUBJECT-MATTER

Degree	Subject-matter	Character
2285 - Máster Universitario en Contaminación Ambiental y Ecotoxicología	Trabajo Fin de Máster	MASTER THESIS PROJECT

COORDINATION

MUÑOZ BERTOMEU JESUS

ROCA PEREZ LUIS

ANDREU SANCHEZ OSCAR ENRIQUE

SUMMARY

The Master's Thesis (TFM) is a compulsory 9 ECTS course. The TFMs will consist of an experimental, bibliographic and/or business-oriented project, supervised by an academic tutor, which will demonstrate the knowledge and skills acquired by the student throughout the degree program. These projects will be an independent and personal task for the student.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

In order to complete the Master's Thesis, students must have passed or be currently enrolled in the rest of the courses in the master's program.

COMPETENCES / LEARNING OUTCOMES

2285 - Máster Universitario en Contaminación Ambiental y Ecotoxicología

Acquire the capacity for autonomous and organised learning and for adapting to new situations.

Acquire the skills to convey ideas, problems and solutions and to communicate them to both professional and non-professional audiences.

Act autonomously in learning, make informed decisions in different contexts, issue judgements based on experimentation and analysis and transfer knowledge to new situations.

Assess the risks of pollutants in ecosystems and their biodiversity.

Be capable of producing a histopathological diagnosis in an environmental context.

Collaborate effectively in work teams, taking on responsibilities and leadership roles and contributing to collective improvement and development.

Contribute to the design, development and implementation of solutions that respond to social demands, considering the Sustainable Development Goals as a reference.

Create georeferenced databases of pollutants, apply geostatistics and produce thematic maps. Use remote sensing techniques in environmental studies.

Demonstrate critical and self-critical reasoning in the field of the degree, considering aspects such as professional ethics, moral value and the social implications of the different activities carried out.

Design and conduct studies and tests to identify and assess endocrine disruption caused by environmental pollutants.

Design ecotoxicity bioassays in various environmental matrices.

Design specific indicators for a particular environmental risk.

Develop and implement programmes and projects to prevent, control and mitigate environmental pollution.

Develop the ability to work in multidisciplinary teams and to cooperate effectively.

Develop the capacity for analysis, synthesis and critical thinking in applying the scientific method.

Diagnose environmental problems.

Evaluate the quality of water and soil.

Know and understand, within the area of the degree, inequalities based on sex and gender in society; integrate different needs and preferences based on sex and gender into the design of solutions and

problem-solving.

Know how to identify the effects of environmental pollutants on reproductive function in animals, including sexual function, gametogenesis, fertilisation and early embryonic development.

Know the animal models used for studying human diseases in relation to environmental pollution.

Know the histology of species used as bioindicators, sentinels or experimental models in an environmental context.

Know the standards and legislation relating to environmental pollution.

Learn how to write scientific articles in the fields of environmental pollution and ecotoxicology.

Understand the effects of pollutants on animal and plant physiology.

Understand the natural world as a product of evolution and its vulnerability to human influence.

Use computer tools, statistical methods and data simulation appropriately, applying software and statistics in ecotoxicology and in issues arising from environmental pollution.

Use different bibliographic sources and biological databases.

Use indicators of environmental risks and health-related damage.

DESCRIPTION OF CONTENTS

The Master's Thesis must be the result of individual research of an experimental, bibliographic and/or business-related nature, based on the content taught during the Master's program. It must have clearly defined objectives, describe the materials and methods used, present the results obtained, include a coherent discussion, and offer concise conclusions. There is no limit to the length of the Master's Thesis; the minimum number of pages is 30.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the master's thesis	9,00
Presentation and defence of the master's thesis	1,00
Total hours	**10,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the master's thesis	195,00
Preparation of the master's thesis project	20,00
Total hours	**215,00**

TEACHING METHODOLOGY

Students must develop the Master's Thesis independently. The role of the academic tutor is to supervise and/or direct each phase of the work: the approach and objectives, the collection of preliminary information, the methodology and design of the work, and the obtaining and discussion of the results.

The rules for preparing the Master's Thesis can be found at the following link: https://www.uv.es/mcta/Normativa/Publicacion.pdf

EVALUATION

An evaluation panel shall be appointed. It will composed of a chair and two members (and their substitutes). Under no circumstances may the student's tutor be a member of the evaluation panel.

The Master's Thesis manuscript accounts for 45% of the final grade, the presentation and defense for 25%, and the tutor's report for 30%.

The TFM will be defended in a public session, unless the work is subject to protection and/or technology and/or knowledge transfer processes (see the specific regulations at https://www.uv.es/dp358/REGESPOST).

The presentation should not exceed 20 minutes, after which there will be a discussion and questions from the panel.

The assessment criteria for the Master's Thesis can be found at the following link: https://www.uv.es/mcta/Normativa/crit_cs.pdf

REFERENCES

https://www.uv.es/master-contaminacion-ambiental-ecotoxicologia/es/treball-fi-master/normatives.html

https://www.uv.es/mcta/Normativa/Publicacion.pdf

https://www.uv.es/mcta/Normativa/crit_cs.pdf

https://www.uv.es/dp358/REGESPOST