

**COURSE DATA****Data Subject**

Code	43812
Name	Analysis and application of environmental legislation
Cycle	Master's degree
ECTS Credits	3.0
Academic year	2022 - 2023

Study (s)

Degree	Center	Acad. year	Period
2227 - Master's Degree in Environmental Engineering	School of Engineering	1	First term
2250 - Master's Degree in Environmental Engineering	School of Engineering	1	First term

Subject-matter

Degree	Subject-matter	Character
2227 - Master's Degree in Environmental Engineering	4 - Environmental management	Obligatory
2250 - Master's Degree in Environmental Engineering	17 - Análisis y aplicación de la legislación ambiental	Obligatory

Coordination

Name	Department
REVUELTA PEREZ, INMACULADA	45 - Administrative and Procedural Law

SUMMARY

Compulsory subject of 3ECTS in the first semester of the first year of the Master of Environmental Engineering.

This subject offers the student the necessary legal knowledges to apply and interpret environmental regulations.



It is focussed on basic legal regime of main legal instruments of environmental law protection and its articulation.

The knowledge and skills to be developed serves as a basis and link for other subjects of the Master, such as water treatment, Environmental impact assessment or waste management and treatment.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

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

Other requirements

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

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

2227 - Master's Degree in Environmental Engineering

- 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.
- Assume with responsibility and ethics the Environmental Engineer role in a professional context.
- Adapt to changes, being able to apply the principles of Environmental Engineering to unknown cases and use new and advanced technologies and other relevant developments, with initiative and entrepreneurial spirit.
- Understand and apply environmental national and international legislation, adapting environmental solutions to these regulations.



- Apply methodologies for evaluation and correction of environmental impact.
- Evaluate the environmental quality of water from a global point of view, especially when there is a risk to public health.
- Evaluate the environmental quality of the air from a global point of view, especially when there is a risk to public health.
- Evaluate the environmental quality of soils from a global point of view, especially when there is a risk to public health..

2250 - Master's Degree in Environmental Engineering

- 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.
- Recognise the ethical and professional responsibilities of environmental engineering and make informed judgements considering the impact of engineering solutions in global, economic, environmental and social contexts.
- Work in a team effectively and with leadership, in a collaborative and inclusive environment, setting goals, planning tasks and meeting objectives.
- Learn and apply new knowledge, using appropriate learning strategies.
- Interpret and apply national and international environmental legislation and adapt environmental solutions to these regulations.
- Apply tools for environmental assessment and management including environmental impact assessment and environmental risk assessment.

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

1.Ability to use and apply environmental sustainability principles.

2. Ability to



apply pollution prevention technics and restoration environment

3. Ability to interpret and apply internacional and domestic environmental regulations, adapting the environmental solutions to that regulations.

4. Ability to know the competences of Environmental Public Administrations (Nacional, Regional and local)

5. Ability to use reliable legal data bases and select the environmental regulation (European, National and Regional) applicable in an individual environmental case



DESCRIPTION OF CONTENTS

1. BASES OF ENVIRONMENTAL LAW

- 1.Sources
2. Relationship between European and Domestic Regulations
- 2) Principles
- 4) The environment in Spanish Constitution
- 5) Environmental legal tools typology

2. Integrated legislation (I) ENVIRONMENTAL ASSESSMENTS

- 1.Origin and characteristics; 2. Tipology; 3. Applicable legislation; 4) Environmental impact assessment: A) Scope; B) Procedure; C) The Environmental Impact Statement; 5) The Strategic Environmental Assessment; A) Scope; B) Procedure; C) Breadth

3. Integrated regulations (II): control of industrial emissions and polluting activities emissions

- 1) Background and characteristics; 2) Applicable legislation; 3) National legislation (TRLPCIC of 2016): A) Scope of application; C) Protection tools: a) The integrated environmental authorization; b) The Best available Techniques (BAT) rule: The BREFs and the BAT conclusions; b) Inspections and sanctions ; c) The Pollutant Release and Transfer Register; 3) Regional Legislation

4.

Quizás quisiste decir: Legislación sectorial (Y): protección de las aguas

51/5000

Sectoral legislation (I): protection of waters

- 1) Applicable legislative framework (European directives and state legislation); 2) Continental and maritime waters: A) Key concepts: continental waters; transition waters; coastal waters; hydrographic basin; hydrographic demarcation; B) Incidence of the Water Framework Directive in the TRLA; C) Main protection techniques: a) Preventives: Delimitation of access zones and of police; Public use easement; Public domain; Prohibition of activities and authorizations; Underground waters: perimeter protection of aquifers; Humid areas; Hydrological planning; Authorizations and concessions; Release authorizations; Dumping Canon b) Repressive: Declaration of overexploited aquifer; Sanctions; 3) Urban wastewater: A) Treatment and purification infrastructures. Legal system; B) Emission levels; C) Competence aspects: fixation of emission levels and discharge authorization; D) Canon for sanitation and purification.

**5. SECTORAL LEGISLATION (II)**

1) Air Pollution; 2) Waste and polluted soils; 3) Biodiversity and Natural protected areas

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	19,00	100
Other activities	4,00	100
Classroom practices	4,00	100
Seminars	3,00	100
Development of group work	7,00	0
Preparation of evaluation activities	13,00	0
Preparing lectures	17,00	0
Preparation of practical classes and problem	8,00	0
TOTAL	75,00	

TEACHING METHODOLOGY

The teaching development is structured as follows:

- Theoretical-practical classes, following the participatory model, a session weekly, during the first semester.

There will be several case studies throughout the course that will be solved in small groups of students. At the end of each session, they will be discussed in class and evaluate the solutions presented.

- Realization and presentation of a work, which will consist of the analysis of a sector Environmental regulations (Water protection; Atmospheric pollution; Control of Chemical substances; Renewable energies; Protection of the mountains, etc.). The work will be done in groups. The teacher will attribute the topics of the following by proposal of the groups established jobs and throughout the course will verify its development and authorize its exposure.

- Visit to the Institute of Legal Medicine and Forensic Sciences of Valencia, in the City of Justice. As a technical body that performs technical assistance functions (expert reports, sampling, etc.) to the Courts, Prosecutors and prosecutors related to Environmental Crimes). The students will give a summary of the training session.

The e-learning platform will be used (Virtual Classroom of the University of Valencia and / or PoliformaT of the Polytechnic University of Valencia) as a support for communication with the students. Through it you will have access to the didactic material used in class, as well as the cases to be solved.



EVALUATION

Final exam: 70 % of overall score

Practice mark: 10% of overall score

Group work and Seminars: 20 % of overall score

The Evaluation subject system will be governed by the indications in

Reglament de Avaluació i Qualificació de la Universitat de València per a títols de Grau i Màster
(<http://links.uv.es/7S40pj>)

REFERENCES

Basic

- LOZANO CUTANDA, B. y ALLI TURRILLAS, J. C., Administración y Legislación ambiental, editorial Dyckinson.
- ESTEVE PARDO, J, Derecho del medio ambiente, Marcial Pons.
- LOZANO CUTANDA, B., Derecho Ambiental Administrativo, editorial La Ley.