



Asignatura: ENVIRONMENTAL LAW  
Código: 32771  
Centro: BIOLOGY  
Titulación: MASTER DEGREE IN INLAND WATER QUALITY ASSESSMENT  
Nivel: MASTER  
Tipo: ELECTIVE  
Nº de créditos: 4

## ASIGNATURA / COURSE TITLE

LEGISLACIÓN AMBIENTAL / ENVIRONMENTAL LAW

### 1.1. Código / Course number

32771

### 1.2. Materia / Course type

This course is elective and is not included in any higher rank area within the master

### 1.3. Tipo / Course type

Elective

### 1.4. Nivel / Course level

Master

### 1.5. Curso / Year

1<sup>st</sup>

### 1.6. Semestre / Semester

1<sup>st</sup> and 2<sup>nd</sup> (Annual)

### 1.7. Número de créditos / Credit allotment

4 ECTS

### 1.8. Requisitos previos / Prerequisites

Some previous knowledge of the main concepts related to water quality is advisable.



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## 1.9. Requisitos mínimos de asistencia a las sesiones presenciales / **Minimum attendance requirement**

Attendance is mandatory.

## 1.10. Datos del equipo docente / **Faculty data**

Lecturer. Javier Ruza

Ministerio de Agricultura y Pesca, Alimentación y Medio Ambiente

Email: javier.ruza@inv.uam.es

Office hours: Tuesday and Thursday 15-19h

Coordinator: Elvira Perona (B-002, Biology building)

## 1.11. Objetivos del curso / **Course objectives**

Learning outcomes.

The Course will provide knowledge about the main aspects of environmental law in the context of inland water ecosystems, with focus on the Water Framework Directive (2000/60/EC, October 23th) and the rest of EU legislation for the protection of water including inter alia Urban Waste Water Treatment, Nitrates, Drinking Water, Bathing Water, Shellfish, Freshwater Fish and Marine Strategy Framework Directives.

Students taking this course are expected to get the basic legislative knowledge concerning protection, management and restoration of inland water ecosystems in the context of Water Framework Directive (WFD) and its ways of implementation in different European Union countries.

Competences.

Generic: G1, G4 y G5

Specific: CB6, CB7, CB8, CB9 y CB10

## 1.12. Contenidos del programa / **Course contents**

- 1) Basis of EU legislation, types of regulations and ways to search and find legislation in force.



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- 2) Legislation on water planning. River basin management plans (RBMPs). The Water Framework Directive (WFD)
  - a) Administrative units. River basin districts and competent authorities
  - b) Water categories, water bodies (WB), WB typology
  - c) Pressures and impacts analysis, economic analysis,
  - d) Environmental objectives, exemptions. Monitoring programmes
  - e) Programmes of measures
  - f) Water status and water quality. Protected areas and related directives. e-flows.
- 3) Legislation on water management and pollution control. Implementation in different countries. Authorisation and permitting systems. Water pricing. Water reuse.
- 4) Other EU legislation related to water quality (standalone directives). Urban Waste Water Treatment Directive (UWWTD), Nitrates Directive (NiD), Industrial emissions directives, Floods directive (FD), Marine Strategy Framework Directives (MSFD), Environmental spatial information directive (INSPIRE). International conventions.

### 1.13. Referencias de consulta / Course bibliography

- Directive 2000/60/EC establishing a framework for Community action in the field of water policy
- Directive 91/271/EEC concerning urban waste-water treatment (UWWTD)
- Directive 91/676/EEC concerning the protection of waters against pollution caused by nitrates from agricultural sources (NiD)
- Directive 2006/7/EC concerning the management of bathing water quality (BWD)
- Directive 98/83/EC on the quality of water intended for human consumption
- Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)
- Directive 2007/60/EC on the assessment and management of flood risks
- Directive 2008/56/EC establishing a framework for community action in the field of marine environmental policy (Marine Strategy Framework Directive - MSFD)
- Directive 2007/2/EC establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)
  
- Main Common Implementation Strategy (CIS) for the WFD Guidance documents. Read mainly GD No 1, 2, 3, 4, 6, 7, 10, 13, 14, 15, 16, 20, 27, 30 and 31 which can be found at:  
[http://ec.europa.eu/environment/water/water-framework/facts\\_figures/guidance\\_docs\\_en.htm](http://ec.europa.eu/environment/water/water-framework/facts_figures/guidance_docs_en.htm)



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## 2. Métodos docentes / Teaching methodology

1. Lectures. Seminars and practical exercises, oral presentation
3. Papers prepared individually or in groups:
4. Online teaching
5. Office hours, including online
6. Written exam

(all tasks are mandatory at 80 %).

The calendar of every task will be notified to the students during lectures.  
\*(see final calendar for the master courses)

## 3. Tiempo de trabajo del estudiante / Student workload

1. Lectures: 33 hours (physical classroom and virtual classroom if necessary)
2. Additional exercises. 3 hours
3. Reports preparation. 42 hours.
4. Time spent preparing the exam. 22 hours.

Overall workload: 4 ECTS \* 25 hours = 100 hours.

## 4. Métodos de evaluación y porcentaje en la calificación final / Evaluation procedures and weight of components in the final grade

1. Evaluation procedures. Continued evaluation, assay tests and exam test
2. Final score will be calculated assuming the credit load of each module and students assignments
  - a. Exam about concepts: 70 %
  - b. Exercises and other activities: 20 %
  - c. Critical discussion in class: 10 %

Any student that has participated in less than 10% of evaluable activities will be qualified as “not graded”. If a student fails to achieve a minimum overall grade of 5 out of 10, he/she will try again the exam or the reports or both to pass the subject.



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## 5. Cronograma\* / Course calendar

Week	Contents	Contact hours	Independent study time
13	Lesson 2	3	7
14	Lesson 2	3	7
15	Lesson 2	3	7
16	Lesson 2	3	7
17	Lesson 2	3	6
18	Lesson 2	3	6
19	Lesson 2	3	6
2	Lesson 3	6	9
3	Lesson 4	3	6
4	Lesson 4	3	6
		<b>33</b>	<b>67</b>