

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

<b>Code</b>	33810
<b>Name</b>	Environmental Evaluation
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	6.0
<b>Academic year</b>	2023 - 2024

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. year</b>	<b>Period</b>
1318 - Degree in Geography and the Environment	Faculty of Geography and History	4	First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1318 - Degree in Geography and the Environment	632 - Environmental assessment	Obligatory

**Coordination**

<b>Name</b>	<b>Department</b>
SERRANO LARA, JOSE JAVIER	195 - Geography

**SUMMARY**

Environmental Assessment is a module that focuses on the applied study, from the paradigm of sustainable development, of key environmental policies for the prevention, management and mitigation of environmental impacts of human activity. This course aims to introduce students to the knowledge of the basic legislation and methodologies for conducting Environmental Impact Assessment and Strategic Environmental Assessments. It also addresses the study of corporate social responsibility from the analysis of instruments to improve the environmental quality of processes, such as environmental certifications.



## PREVIOUS KNOWLEDGE

### Relationship to other subjects of the same degree

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

### Other requirements

It is recomendable to have passed the modules of Environment and Productive Activity and Spatial Planning

## OUTCOMES

### 1318 - Degree in Geography and the Environment

- Have capacity for analysis and synthesis.
- Have skills for organisation, planning, management and assessment.
- Have problem-solving skills and decision-making capacity. Be able to design and manage projects.
- Be able to work independently.
- Be able to work in interdisciplinary teams.
- Be able to learn independently and show creativity, initiative and entrepreneurship. Be able to resolve unforeseen situations.
- Show motivation for quality, responsibility and intellectual honesty.
- Have research skills.
- Be able to communicate effectively with non-experts.
- Learn about methodology and fieldwork.
- Get acquainted with geographic information systems as a tool for learning about and interpreting the territory and the environment.
- Learn about the time and space dimensions in the explanation of social, territorial and environmental processes.
- Acquire basic knowledge for analysing and diagnosing public policies related to the geographical aspects of the environment.
- Learn basic techniques for fieldwork in geography and particularly for reading and interpreting the landscape in geographic terms.

## LEARNING OUTCOMES

1. Understanding of basic concepts in environmental economics, ecological economics, environmental impact, carrying capacity, ecological footprint and sustainable development.
2. Knowledge of the various policies of prevention and mitigation of environmental impacts of projects,



plans and programs.

3. Learning qualitative and quantitative techniques for conducting Environmental Impact Assessments.
4. Introduction to field work on detection and analysis of environmental impacts of projects and plans.
5. Understanding of the capacity land use methodology in a definite particular territory.
6. Basic knowledge of Environmental Management Systems of firms and institutions.

## DESCRIPTION OF CONTENTS

### 1. Environmental Impact Assessment and Sustainable Development

- 1.1. Development approaches and the evolution of the environmental perspective
- 1.2. The global ecological crisis
- 1.3. Answers: from environmental economics to ecological economics

### 2. Concept and attributes of environmental impact

- 2.1. Environmental impact concept
- 2.2. Components and attributes of environmental impacts

### 3. Legislation and components of an Environmental Impact Assessment

- 3.1. Characteristics of an EIA
- 3.2. EIA Legislation
- 3.3. Structure, content and limitations of an EIA
- 3.4. Corrective measures and environmental monitoring programs

### 4. Methods and techniques of Environmental Impact Assessment

- 4.1. Introduction
- 4.2. Impact identification methods
- 4.3. Impact assessment methods
- 4.4. Examples of case studies
- 4.5. BattelleColumbus and Leopold matrix

### 5. Strategic Environmental Assessment

- 5.1. The PPP triad
- 5.2. Structure and contents of an SEA
- 5.3. Methodologies

**6. Social and environmental responsibility of the company**

- 6.1. The environmental management system
- 6.2. Introduction to environmental auditing and Management Systems
- 6.3. Eco-audits and certification

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	30,00	100
Other activities	15,00	100
Classroom practices	15,00	100
Attendance at events and external activities	15,00	0
Development of group work	10,00	0
Development of individual work	5,00	0
Study and independent work	20,00	0
Readings supplementary material	5,00	0
Preparation of evaluation activities	10,00	0
Preparing lectures	5,00	0
Preparation of practical classes and problem	5,00	0
Resolution of case studies	5,00	0
<b>TOTAL</b>	<b>140,00</b>	

**TEACHING METHODOLOGY**

As a fourth-grade course and following the teaching-learning methodologies more common in the European Higher Education Area, it is expected of the student a good capacity for independent work (reading literature, preparation of individual practices, group and field .) In this way teaching is organized as follows:

- a) Lectures with explanation of basic concepts
- b) The types of group and individual practices
- c) Discussion sessions on required reading and text analysis
- d) individual and group tutorials
- e) Follow-up outside the classroom.

Throughout the course must complete a series of individual and group practices, plus a field, which constitute the bulk of the final grade for the course. For these practices, attendance at seminars and trips case is absolutely essential.



## EVALUATION

The evaluation of the course will take into account the evolution experienced by each student, as well as their participation and autonomous work. The distribution of the score will be as follows:

40% Final written test (Exam)

45% Class practices.

15% complementary activities

To add the note of the practical activities, to the final grade, it will be necessary that in the exam the student gets a note of at least 4 points. If you do not get a 4 in the exam, the final grade for the subject will be the grade obtained in the exam.

Practices are not recoverable in the first semester. To recover them, in the second semester, it will be necessary to carry out the practical part of the exam of the second call.

## REFERENCES

### Basic

- Conesa, V. (2010): Guía metodológica para la evaluación del impacto ambiental. Madrid: Mundi-Prensa
- Gómez Orea, D. (2002): Evaluación de Impacto Ambiental. Madrid: Mundi-Prensa
- Garmendia, A. (2010): Evaluación de Impacto Ambiental. Madrid: Pearson-Prentice Hall.
- BORDERÍAS, Ma. P. y MUGURUZA, C. (2014). Evaluación ambiental. Editorial UNED.
- GLASSON, J., & THERIEVEL, R. (2019). Introduction to environmental impact assessment. Routledge.
- GÓMEZ OREA, D. y GÓMEZ VILLARINO, M. (2013). Evaluación de impacto ambiental. Mundi-Prensa Libros
- GÓMEZ OREA, D., GÓMEZ VILLARINO, M. Y GÓMEZ VILLARINO, A. (2014). Evaluación ambiental estratégica. Un instrumento para integrar el medio ambiente en la formulación de políticas, planes y programas. Mundi-prensa Libros
- ONATE, J.J., PEREIRA, D., SUAREZ, F., RODRÍGUEZ, J.J. Y CHACON, J. (2002). Evaluación Ambiental Estratégica: la evaluación ambiental de Políticas, Planes y Programas. Ed. Mundi-Prensa. Madrid.

### Additional



- MARTÍNEZ-OROZCO, J. (2020). Casos prácticos en evaluación de impacto ambiental. Ed. Dtra.
- SANZ, I. (2021). El procedimiento de evaluación de impacto ambiental a través de sus documentos. Tirant lo Blanch.
- VICENTE DAVILA, F. (2016). Evaluación de impacto ambiental transfronteriza entre España y Portugal. Atelier.