

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

<b>Code</b>	33110
<b>Name</b>	Real-life cases of environmental evaluation
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	4.5
<b>Academic year</b>	2023 - 2024

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. year</b>	<b>Period</b>
1104 - Degree in Environmental Sciences	Faculty of Biological Sciences	4	First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1104 - Degree in Environmental Sciences	178 - Case studies of environmental assessment	Optional

**Coordination**

<b>Name</b>	<b>Department</b>
ROCA PEREZ, LUIS	25 - Plant Biology
RUIZ SANCHEZ, FRANCISCO JAVIER	200 - Geology
SACRISTAN MORAGA, DANIEL	25 - Plant Biology

**SUMMARY**

The subject "Real-life cases of environmental evaluation" is an optional subject taught in the fourth year of the Environmental Sciences Degree, within Module XI Optional Subjects, in the Thematic Block of Evaluation and Management of the Natural Environment and consists of 4.5 credits.

It is a subject in which it is intended that students acquire the basic knowledge for the development of practical cases of environmental impact assessment of different types of projects, in accordance with the legislation and regulations applicable in each case. The contents of the subject are structured in 2 blocks of 5 topics the first and the realization of a practical assumption in the second. This practical case will allow the student to develop the contents learned in this subject and others acquired in the related subjects. Finally, six internship sessions will be developed that will allow the student to learn how to handle cartographic information with a view to its use in the development of the practical assumption raised in the second block.



## 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 tuition restrictions have been specified for other subjects in the curriculum.

Be studying or have studied the subjects of the modules Environmental Technology, Management and Environmental Quality and Social, Economic and Legal Sciences, and have exceeded a minimum of 120 ECTS credits.

## OUTCOMES

### 1104 - Degree in Environmental Sciences

- Conocer diferentes tipos de proyectos, planes y programas y los procedimientos para su evaluación ambiental.

## LEARNING OUTCOMES

- Use of electronic bibliographic databases, cartographic databases and spatial analysis tools for the consequence of objectives related to the Environmental Assessment.
- Realisation of practical work involving problem solving, information analysis and critical interpretation.
- Development of an environmental assessment case study.
- Basic concepts of landscape integration.

## DESCRIPTION OF CONTENTS

### 1. BLOCK 1. CASE STUDIES.

Theme 1. Case Study 1: General Structural Plan.

Theme 2. Case Study 2: Extractive Activities.

Theme 3. Case Study 3: Coastal Regeneration Actions.

Theme 4. Case Study 4: Composting Plant.

Theme 5. Landscape Integration.

**2. BLOCK 2. CASE STUDIES**

PRACTICAL COURSE IN CLASSROOM SESSIONS. Introduction to the preparation of an Environmental Impact Study (EIA).

**3. COMPUTING PRACTICES**

PRACTICES 1 and 2. Environmental impact assessment of energy transport infrastructures on areas contained in Royal Decree 1432/2008 of 29 August (ZEPA, .)

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	27,00	100
Computer classroom practice	12,00	100
Laboratory practices	4,00	100
Tutorials	2,00	100
Development of group work	10,00	0
Study and independent work	20,00	0
Readings supplementary material	5,00	0
Preparation of evaluation activities	6,00	0
Preparing lectures	10,00	0
Preparation of practical classes and problem	6,00	0
Resolution of case studies	10,00	0
<b>TOTAL</b>	<b>112,00</b>	

**TEACHING METHODOLOGY**

The development of the subject is structured in theory sessions, practical classroom sessions of 1 hour duration, practical sessions (computer) of 2 hours, field trips of 5 and tutorials.

In **theory sessions**, the student will receive a global view of the subject (case studies) by the teacher, who will influence the key concepts for understanding it. The student will previously have material that must be prepared to be worked in class, so that there is an active participation of this in the development of the same, by raising questions, proposing examples, discussing concepts, etc.

In **practical classroom sessions** (theory), a practical course chosen by the teachers will be developed where students must face a real case and address issues such as problem-solving, decision-making and reporting by group and/or individually. To do this, the students will work in groups (with teacher supervision), forming a staff led by a manager (work manager), who will prepare the different sections of an EIA. Each group will issue, at the end of its work, a written report that will be presented in a 40-minute public session by the drafting team. In this presentation the director of the work, as well as each member of this team, should participate and in which the results of this study will be presented.



In **practical computer session**, developed in 2-hour sessions, the student will be introduced to the application of methodologies for the development of a system that allows the implementation of different types of environmental information that can be used in a project. Students will present a brief report with the results obtained and the pertinent discussion of them. Assistance to these activities is required, and assistance controls may be established when deemed appropriate.

In the **tutorials**, the student will be guided by the teacher on all elements of the learning process, both theoretical and practical questions. The tutorials will be held to help solve questions, problems, and also to direct work to be prepared by them, both in the preparation of the Report of the Practical Course and in the preparation of the work to be exhibited in the seminar sessions. Assistance to these activities is required, and assistance controls may be established when deemed appropriate.

## EVALUATION

During the development of the subject, both in theoretical and practical classes, a continuous evaluation of the attitude, interest and progress made by the student will be made, thus evaluating the degree of involvement in the teaching-learning process. The evaluable concepts in this subject are:

1. Joint presentation (working group) of the practical case: The note of this test will represent 40% of the final note.
2. Final examination on theoretical content: Written examination with theoretical-practical questions. The grade of this test will represent 50% of the final grade.
3. Continuous evaluation: A continuous evaluation of each student will be carried out, based on the different face-to-face and non face-to-face activities, evaluating the attendance of all of them, and the performance and presentation of all the work and complementary activities, participation and the degree of involvement in the teaching-learning process. This part will represent 10% of the final grade. To approve, the final note must be equal to or greater than 5 out of 10 points in each of the paragraphs.

A minimum of 80% of the scheduled theoretical classes must be attended.

Classroom practice sessions, computer practice sessions, field trips and tutorials are mandatory. Failure to comply with this requirement will result in the suspension of the subject and the impossibility of taking the exam.

To request the advance of the call for this subject the student must take into account that they must have carried out the obligatory activities indicated in the teaching guide of the subject.

## REFERENCES





### Basic

- Jorba M, Vallejo VR. Manual para la restauración de canteras de roca caliza en clima mediterráneo. ed. III. Catalunya. Àrea dAvaluació i Restauració dActivitats Extractives. Generalitat Catalunya.; 2010.
- Consejería de Medio Ambiente. Guía práctica de calificación ambiental: explotaciones ganaderas. Consejería de Medio Ambiente. Junta de Andalucía; 2011.
- Consejería de Medio Ambiente. Guía práctica de calificación ambiental: caminos rurales. Consejería de Medio Ambiente. Junta de Andalucía; 2011.
- Conselleria de Territorio y Vivienda GVA. ORDEN de 3 de enero de 2005, de la Conselleria de Territorio y Vivienda por la que se establece el contenido mínimo de los estudios de impacto ambiental que se hayan de tramitar ante esta Conselleria. [2005/96]. DOCV núm. 4922. [Internet]. 2005. Available from: [http://www.docv.gva.es/portal/ficha\\_disposicion\\_pc.jsp?sig=0163/2005&L=1](http://www.docv.gva.es/portal/ficha_disposicion_pc.jsp?sig=0163/2005&L=1)
- Alianza Mundial de Derecho Ambiental. Guía Para Evaluar EIAs de Proyectos Mineros. 1a Edición. Alianza Mundial de Derecho Ambiental (ELAW); 2010.
- ANEFA. Explotaciones de áridos y Medio Ambiente. Asociación Nacional de Empresarios Fabricantes de Áridos (ANEFA); 2010.
- Ministerio Medio Ambiente, Medio Rural y Marino. Indicadores de fragmentación de hábitats causada por infraestructuras lineales de transporte Documentos para la reducción de fragmentación de habitatsts causada por infraestructuras de transporte. no 4 O.A. PARques Nacionales. Ministerio Medio Ambiente, Medio Rural y Marino; 2010.
- Consejería de Medio Ambiente. Guía práctica de calificación ambiental: transporte de energía. Consejería de Medio Ambiente. Junta de Andalucía; 2011.
- Conselleria de Infraestructuras, Territorio y Medio Ambiente. Guía metodológica. Estudios de paisaje. Conselleria de Infraestructuras, Territorio y Medio Ambiente. Generalitat Valenciana.; 2012.

### Additional

- ITGE EPM, SA (1989): Manual de restauración de terrenos y evaluación de impactos ambientales en minería. Serie Ingeniería Medioambiental. ITGE Ministerio de Industria, Comercio y Turismo.
- A. Urzelai et al. 2006. Modelización de un sistema territorial urbano-rural para la evaluación de su sostenibilidad. Aplicación a una zona representativa del País Vasco. Revista Internacional de Sostenibilidad, Tecnología y Humanismo. Vol 1. Pp 15-172.
- Relea i Ginés, F. (1987): Recomanacions tècniques per a la restauració i condicionament dels espais afectats per activitats extractives. Departament de Política Territorial i Obres Públiques. Generalitat de Catalunya.