

## 25230 - Environmental impact assessment

### Información del Plan Docente

Academic Year	2017/18
Faculty / School	201 - Escuela Politécnica Superior
Degree	277 - Degree in Environmental Sciences
ECTS	6.0
Year	4
Semester	First Four-month period
Subject Type	Compulsory
Module	---

### **1.General information**

#### **1.1.Introduction**

#### **1.2.Recommendations to take this course**

#### **1.3.Context and importance of this course in the degree**

#### **1.4.Activities and key dates**

### **2.Learning goals**

#### **2.1.Learning goals**

#### **2.2.Importance of learning goals**

### **3.Aims of the course and competences**

#### **3.1.Aims of the course**

#### **3.2.Competences**

### **4.Assessment (1st and 2nd call)**

#### **4.1.Assessment tasks (description of tasks, marking system and assessment criteria)**

### **5.Methodology, learning tasks, syllabus and resources**

#### **5.1.Methodological overview**

The learning process that is designed for this subject is based on:

The theoretical sessions will consist in participatory lectures. Besides, they may include the participation of external experts and seminars realized by students.

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Two types of practical activities will be developed: a) Field trips in order to analyse and discuss in situ the impacts of different projects; b) Review of reports and documents from different Environmental Impact Studies. Besides, the collaborative work group will be developed in these seminars under the supervision of the teacher.

### 5.2.Learning tasks

The program includes the following activities:

- **Theory sessions.** Classroom activity in which the contents of the proposed topics will be developed. The total duration of this activity will be 10 hours.
- **Seminars.** Classroom activity in which different examples of environmental impact studies will be studied. Besides, the cooperative work be developed and presented in these classes. (20 sessions of 2 hours).
- **Collaborative work.** Development of the collaborative work in groups of three members.
- **Field practices** to analyse in situ an Environmental Impact Project.
- **Tutorials.**

### 5.3.Syllabus

#### Theory Programme

I: INTRODUCTION TO THE CONCEPT OF EIA

1.1. Introduction to the concept of EIA

II: ADMINISTRATIVE METHODOLOGY OF EIA: THE LEGAL FRAMEWORK

2.1. Legal precedents and specific regulations.

2.2. EIA procedures according to state legislation.

2.3. EIA legislation within the autonomous region of Aragon.

III: DEVELOPMENT OF THE ENVIRONMENTAL IMPACT STUDY. METHODOLOGIES.

3.1. Environmental impact. Concepts and characteristics.

3.2. Content of environmental impact studies.

3.3. Description of the project and specific actions. Examination of alternatives.

3.4. Environmental inventory.

3.5. Evaluation of impact. Methodologies.

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3.6. Correction and control of impact.

### IV: AN EVALUATION OF THE ENVIRONMENTAL IMPACT OF KEY PROJECTS AND ACTIVITIES

4.1. Extractive activities

4.2. Lineal infrastructure

4.3. Wind farms

4.4. Dams

4.5. Irrigation projects

### Practical Programme

1. Projects review (some of the next projects will be reviewed):

- Quarry "Los Quebraderos de La Serrana" EsIA.
- Enlargement of the "Yesa" dam EsIA.
- Road to the "Javalambre" ski station by the southern slope-side EsIA.
- Electric line "Mezquita de Jarque-Teruel" EsIA.

2. Analysis of the "Biscarrués" dam EsIA

- Land and water uses in the "Gállego" catchment
- Environmental and socio-economic traits of the potentially affected area
- Geological and biological traits of the potentially affected area



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TOTAL	9	9	8	8	9	9	8	9	9	9	12	8	8	4	4	8	6	6			150
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### 5.5. Bibliography and recommended resources

<b>BB</b>	Canter, Larry W.. Manual de evaluación de impacto ambiental : técnicas para la elaboración de estudios de impacto / Larry W. Canter ; traducción, Ignacio Español Echániz...[et al.] ; revisión técnica, José Vicente López Álvarez, José María Casillas Barral, Rosa María Gómez Alonso . Madrid [etc.] : McGraw-Hill, D.L. 2000
<b>BB</b>	Conesa Fernández-Vítora, Vicente. Guía metodológica para la evaluación del impacto ambiental / Vicente Conesa Fdez-Vítora ; colaboradores, Vicente Conesa Ripoll [et al.] ; prólogo de María Teresa Estevan Bolea . 3ª ed. rev. y amp., reimp. Madrid [etc.] : Mundi-Prensa, 1997 (reimpr. 2000)
<b>BB</b>	Erias Rey, Antonio. Evaluación ambiental y desarrollo sostenible / Antonio Eras Rey, José Manuel Álvarez-Campana Gallo . Madrid : Pirámide, 2007
<b>BB</b>	Evaluación de impacto ambiental / Alfonso Garmendia Salvador ... [et al.] . reimp. Madrid : Pearson Educacion, 2005 (reimp. 2008)
<b>BB</b>	Gómez Orea, Domingo. Evaluación de impacto ambiental : un instrumento preventivo para la gestión ambiental / Domingo Gómez Orea. 2ª ed. rev. y amp. Madrid [etc.] : Mundi-Prensa, 2003
<b>BB</b>	Guía para la elaboración de estudios del medio físico / [autores Miguel Aguiló Alonso ... (et al.)] . 3ª ed. Madrid : Ministerio de Medio Ambiente, Centro de Publicaciones, 2006

The updated recommended bibliography can be consulted in:  
<http://psfunizar7.unizar.es/br13/egAsignaturas.php?id=2179>