Universidad Zaragoza

Year : 2019/20

25230 - Environmental impact assessment

Syllabus Information

Academic Year: 2019/20
Subject: 25230 - Environmental impact assessment
Faculty / School: 201 -

Degree: 277 - Degree in Environmental Sciences
571 - Degree in Environmental Sciences

ECTS: 6.0
Year: 571 - Degree in Environmental Sciences: 4
277 - Degree in Environmental Sciences: 4

Semester: First Four-month period
Subject Type: Compulsory
Module: ---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

2.2.Learning goals

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

4.Methodology, learning tasks, syllabus and resources

4.1.Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practice sessions, seminars, fieldwork and tutorials.

4.2.Learning tasks

This course is organized as follows:

- **Lectures** (10 hours). Classroom activity in which the contents of the proposed topics will be developed. External experts may give some lectures and students may give some seminars.
- **Seminars** (40 hours). 20 two-hour sessions. Classroom activity in which different examples of environmental impact studies will be studied. Besides, the group work will be developed and orally presented in these sessions.
- **Group work.** Development of the collaborative work in groups of three members.
- **Fieldwork.** To analyse in situ an Environmental Impact Project.

- **Tutorials.**

4.3.Syllabus

This course will address the following topics:

Lectures

- **Topic 1**: Introduction to the concept of EIA
  - 1.1. Introduction to the concept of EIA
- **Topic 2**: 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.
- **Topic 3**: 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.
  - 3.6. Correction and control of impact.
- **Topic 4**: 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

Practice sessions

- **Section 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.
- **Section 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
  - EsIA?s official documents
  - Other documents

4.4.Course planning and calendar

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the Escuela Politécnica de Huesca website and Moodle.

Activity / Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Total
Classroom activity																						*61*
Theory	2	2	2	2	2																	10
Practical sessions						2	2	2	2	2	2	2	2	2								18
Group work sessions				2	2	2	2	2	2	2		2	2	2			2					22
Visits											8											8
Evaluation																				3		3
Off?site activities																						*89*

Individual work	5	1	1	1	1	2	1	1	2	1		1	2	2	4	4	6	6	7			*48*
Group work	1	5	5	3	3	2	3	3	2	1		1	2	2	4	4						*41*
TOTAL	8	8	8	8	8	8	8	8	8	6	10	6	8	8	8	8	8	6	7	3	0	*150*

4.5.Bibliography and recommended resources

BB 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 Alvarez, José María Casillas Barral, Rosa María Gómez Alonso . Madrid [etc.] : McGraw-Hill, D.L. 2000

BB 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)

BB Erias Rey, Antonio. Evaluación ambiental y desarrollo sostenible / Antonio Erias Rey, José Manuel Álvarez-Campana Gallo . Madrid : Pirámide, 2007

BB Evaluación de impacto ambiental / Alfonso Garmendia Salvador ... [et al.] . reimp. Madrid : Pearson Educacion, 2005 (reimp. 2008)

BB 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

BB 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=10986