

## 25221 - Environmental education

### Syllabus Information

**Academic Year:** 2020/21

**Subject:** 25221 - Environmental education

**Faculty / School:** 201 - Escuela Politécnica Superior

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

**ECTS:** 6.0

**Year:** 3

**Semester:** Second Four-month period

**Subject Type:** 277 - Compulsory

571 - Optional

**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

This subject is offered in the [English Friendly](#) form

## 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

Theoretical lectures will be mainly participative. Their development will consist in the explanation by the teacher of a part of the subject, with an active participation of the students. In some cases the theoretical lectures will be devoted to the application of some theoretical concepts seen previously. In other cases students will develop the lecture, preparing previously a part of it, following teacher's suggestions. The teacher will promote active participation of students, posing problems whose resolution is based in the use of Environmental Education or other subject's tools, searching for student's integration and reasoning.

In all there will be 30 theoretical lectures of 50 minutes each, some of them in English, using frequently Power Point presentations.

Practical lectures will be of three different types: field work; classroom lectures and collective tutorials. Field work will be developed in Protected Areas, in order to visit Interpretation Centres and in the natural environments surrounding the Technical School, both related with nature interpretation. Classroom practices will be developed in normal classrooms and in computer classrooms.

Participative processes will be related to different environmental problems; practical cases; bibliographic research; exposition of partial aspect of the collective report students must prepare, etc. Tutorials will be focused on the questions posed by groups students dedicated to elaborate collective reports, in order to discuss on their focus, objectives, structure and development.

In all there will be two days of field work to visit Interpretation Centres (10 hours of teaching); 16 horas of practices, that is 8 hours of practices of 2 hours each; and 2 periods of 2 hours of tutorials.

#### **4.2.Learning tasks**

The program includes:

1 Visit to Nature Interpretation Centres

2 Master lectures

3 Films

4 Workshops

5 Conferences and seminars by specialists

6 Legislation and Environmental Programs analysis

#### **4.3.Syllabus**

- Communication through technical and scientific writing
- Biodiversity crisis
- Communication theory
- Environmental Education
- Environmental Education Programs
- Campaigns
- The White Book of Environmental Education in Spain
- Aragonese Strategy of Environmental Education
- The Media
- Enterprises and institutions in Environmental Education
- Spanish legislation on Environmental Education
- Nature Interpretation
- International experiences
- Evaluation on Environmental Education Programs
- Responsible consume

#### 4.4.Course planning and calendar

It follows the Saragossa University academic calendar. The subject timetable, classrooms, tutorials and exams can be consulted in the Technical School web page. The information regarding the development of the subject will be presented to the students the first day of the term.

Activities/Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total	
<b>On-site activities</b>																						66
<b>Theory</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2							28
<b>Problems</b>			2		2																	4
<b>Laboratory practices</b>	2						2															4
<b>Field work</b>																						0
<b>Group work</b>				5									10		5							20
<b>Tutorials</b>		2										2										4
<b>Evaluation</b>															3	3						6
<b>Non on-site activities</b>																						84
<b>Personal work</b>	2	2	2	1	2	3	2	3	3	3	3	2		2		2	8	4				44
<b>Team work</b>	2	2	2	1	2	3	2	3	5	3	3	2		4		2		4				40
<b>TOTAL</b>	8	8	8	9	8	8	8	8	8	8	8	8	12	8	8	9	8	8	0			150

#### 4.5.Bibliography and recommended resources

- BB** Estrategia Aragonesa de Educación Ambiental (EÁREA). EAREA : Estrategia Aragonesa de Educación Ambiental. Documento / [dirección técnica, Dpto. Medio Ambiente, Gobierno de Aragón ; realización y redacción, Colectivo de Educación Ambiental] . [1ª ed.] [Zaragoza] : Gobierno de Aragón, Departamento de Medio Ambiente, 2003
- BB** Jornadas de Educación Ambiental de la Comunidad Autónoma de Aragón (3ª.. La educación ambiental en Aragón en los albores del siglo XXI [Zaragoza] : Gobierno de Aragón, Departamento de Medio Ambiente, D.L. 2006
- BB** Lecumberri Beloqui, Guadalupe. Guía para la elaboración de programas de educación ambiental / Guadalupe Lecumberri Beloqui, Javier Arbuniés Erce ; ilustraciones: Esteban Zozaya ?Birilo? [Navarra] : Centro Unesco Navarra, DL 2001
- BB** Libro Blanco de la educación ambiental en España en pocas palabras / [coordinación, Susana Calvo Roy y Mercedes González de la Campa] Madrid : Ministerio de Medio Ambiente, Secretaría General de Medio Ambiente, 1999
- BC** Calvo, Susana. El espejismo de la educación ambiental / por Susana Calvo, José Gutiérrez . [1ª ed.] Madrid : Morata, D. L. 2006
- BC** Jacobson, Susan K.. Communication Skills for Conservation Professionals / Susan K. Jacobson . 2nd. ed. Washington : Island Press, 2009

**LISTADO DE URLs:**

Agencia de Medio Ambiente y Sostenibilidad del Ayuntamiento de Zaragoza  
[<https://www.zaragoza.es/ciudad/medioambiente/>]

Boletín electrónico de la EAREA  
[<http://www.aragon.es/DepartamentosOrganismosPublicos/Departamentos/DesarrolloRuralSostenibilidad/AreasGenericas/>]

Calvo, S., González, M. (coord.) (1999). Libro blanco de la educación ambiental en España en pocas palabras. Madrid: Min  
[[http://www.mapama.gob.es/es/ceneam/recursos/documentos/pocas\\_tcm30-77432.pdf](http://www.mapama.gob.es/es/ceneam/recursos/documentos/pocas_tcm30-77432.pdf)]

Centro Nacional de Educación Ambiental, CENEAM  
[<http://www.marm.es/es/ceneam/>]

Centros de Interpretación de la Red Natural de Aragón  
[<http://www.aragon.es/DepartamentosOrganismosPublicos/Departamentos/DesarrolloRuralSostenibilidad/AreasTematicas/>]

Comisión on Education and Communication of IUCN  
[<http://www.iucn.org/about/union/commissions/cec/>]

Diputación de Zaragoza. Medio Ambiente  
[<http://www.dpz.es/areas/area-de-servicios-y-desarrollo-municipal/servicio-de-recursos-agrarios/medio-ambiente>]

Documento sobre diseño de proyectos en educación ambiental  
[[http://www.juntadeandalucia.es/medioambiente/educacion\\_ambiental/disenioProyectos.pdf](http://www.juntadeandalucia.es/medioambiente/educacion_ambiental/disenioProyectos.pdf)]

Educación Ambiental. Gobierno de Aragón. Departamento de Medio Ambiente  
[[http://www.aragon.es/Temas/MedioAmbiente/AreasTematicas/5\\_Educacionysens](http://www.aragon.es/Temas/MedioAmbiente/AreasTematicas/5_Educacionysens)]

Estrategia aragonesa de educación ambiental, EAREA  
[<http://www.aragon.es/medioambiente/educacion/EAREA>]

Guía de educación ambiental. Selección de lecturas y recursos del Centro de Documentación del Agua y el Medio Ambiente  
[<http://www.zaragoza.es/contenidos/medioambiente/cda/GuiaEducacionAmbiental.pdf>]

Guía de recursos ambientales de Aragón  
[  
<http://www.aragon.es/DepartamentosOrganismosPublicos/Departamentos/DesarrolloRuralSostenibilidad/AreasTematicas/>  
]

Hesselink, F., et al. (2007). Communication, Education and Public Awareness (CEPA). A toolkit for National Focal Points an  
[<http://www.cbd.int/cepa/toolkit/2008/doc/CBD-Toolkit-Complete.pdf>]

La Calle Indiscreta. Aula de Medio Ambiente Urbano. Gobierno de Aragón  
[<http://www.lacalleindiscreta.es/>]

Novedades y noticias del Ayuntamiento de Zaragoza  
[[http://www.zaragoza.es/ciudad/centros/buscar\\_Centro?&temas\\_smultiple=Medio%20Ambiente](http://www.zaragoza.es/ciudad/centros/buscar_Centro?&temas_smultiple=Medio%20Ambiente)]

Red de Entidades Locales por la Sostenibilidad del Alto Aragón, RETE 21  
[<https://www.dphuesca.es/la-red>]

Red Natural de Aragón  
[<http://www.rednaturaldearagon.com/>]

Treinta años de educación ambiental: una revisión colectiva desde el territorio y los contextos  
[[https://ecodes.org/archivo/proyectos/archivo-ecodes/pages/especial/revision\\_educacion\\_ambiental/index.html](https://ecodes.org/archivo/proyectos/archivo-ecodes/pages/especial/revision_educacion_ambiental/index.html)]

The updated recommended bibliography can be consulted in: <http://psfunizar10.unizar.es/br13/egAsignaturas.php?id=10979>