

## 28947 - Sustainable development and the environment

### Syllabus Information

**Academic Year:** 2020/21

**Subject:** 28947 - Sustainable development and the environment

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

**Degree:** 583 - Degree in Rural and Agri-Food Engineering  
437 - Degree in Rural and Agri-Food Engineering

**ECTS:** 6.0

**Year:** 3

**Semester:** Second semester

**Subject Type:** 583 - Optional

437 - 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 (3 ECTS) and
- practice sessions (3 ECTS).

#### 4.2.Learning tasks

The course includes the following learning tasks::

- Theory sessions (3 ECTS) would be lectures with high participation of the students and will consist of:
  - Teacher lectures on theory contents of the subject.
  - Lectures on study cases



Tutorials																			
Evaluation																			
Off-site activity																			
Trabajo individual	2	4	4	4	2	4	4	4	2	9	2	2	2		2				
Group work											3	3	3	4	3				
TOTAL	6	8	8	8	8	8	8	8	2	9	9	7	9	6	9	10			

#### 4.5. Bibliography and recommended resources

- BB** Chiras, Daniel D.. Environmental science / Daniel D. Chiras . 10th ed Burlington, MA : Jones & Bartlett Learning, cop. 2016
- BB** Ecología y medio ambiente / Teresa Valverde ... [et al.] ; revisión técnica Gabriel Ramos García, Héctor Meraz Larraga . México : Pearson, 2005
- BB** Goleman, Daniel. Inteligencia ecológica / Daniel Goleman ; [traducción, David González Raga] . 1ª ed. Barcelona : Kairós, 2009
- BB** Miller, G.T. (2007). Ciencia Ambiental: Desarrollo Sostenible. Un Enfoque Integral. Thomson
- BB** Nebel, Bernard J.. Ciencias ambientales : ecología y desarrollo sostenible / Bernad J. Nebel, Richard T. Wright ; traducción, Francisco Javier Dávila ; revisión técnica, José Salvador Pantoja M. . 6ª ed. México [etc.] : Prentice Hall, 1999
- BB** Smith, Thomas Michael. Ecología / Thomas M. Smith, Robert Leo Smith. 6a. ed. Madrid [etc.] : Pearson Addison-Wesley, D.L. 2007

#### LISTADO DE URLs:

EUROPARC España

[<http://www.redeuroparc.org/>]

Ham, S.H. (1992). Environmental Interpretation. A practical guide for people with big ideas and small budgets. Colorado: North American Press

[<http://serceducationvolunteers.files.wordpress.com/2012/12/interpretation-sam-ham1.pdf>]

International Union for Conservation of Nature, IUCN

[<https://www.iucn.org/es>]

Ley 42/2007, de 13 de diciembre, del Patrimonio Natural y de la Biodiversidad

[[http://www.boe.es/diario\\_boe/txt.php?id=BOE-A-2007-21490](http://www.boe.es/diario_boe/txt.php?id=BOE-A-2007-21490)]

Ley 5/2002, de 4 de abril, de Caza de Aragón

[<http://www.boe.es/boe/dias/2002/05/14/pdfs/A17387-17407.pdf>]

Novo, M. (2009). La educación ambiental, una genuina educación para el desarrollo sostenible / Environmental Education, a genuine education for sustainable development. Revista de Educación, nº extraordinario, 195-217

[[http://www.revistaeducacion.mec.es/re2009/re2009\\_09.pdf](http://www.revistaeducacion.mec.es/re2009/re2009_09.pdf)]

Pool-Stanvliet, R., Clüsener-Godt, M. (2013). AfriMAB. Biosphere Reserves in Sub-Saharan Africa: Showcasing Sustainable Development. Pretoria: Department of Environmental Affairs y París: Unesco

[<http://unesdoc.unesco.org/images/0022/002269/226919e.pdf>]

The updated recommended bibliography can be consulted in:

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=28947>