Universidad Zaragoza

25253 -

Información del Plan Docente

Academic Year	2017/18
Faculty / School	201 - Escuela Politécnica Superior
Degree	571 - Degree in Environmental Sciences
ECTS	3.0
Year	2
Semester	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

a) **Theoretical classes** will generally be taught as master classes, although teaching methods such as 'flipped classroom' and 'problem-based learning' may also be used to work on some theoretical contents of the theory. These classes will require the participation of students, who will participate to interact with explanations, make comments or debates, show readings, presenting or participating with case studies, solving problems, etc., either individually or in a group.

Before tackling each topic, reading material and bibliography will be delivered through the Digital Teaching Ring -ADD-, in

order the student can prepare the themes. The recommended bibliography, both basic and complementary, will be specified. Prior to each theoretical theme, also the necessary indications to develop the learning based on the 'inverted classroom' or to work on specific problems will be given.

The teacher will also deliver the images projected in class (Power Point), in which the theoretical contents treated in class will appear in a schematic and summarized way.

b) In the **practical clases,** the needed material for its preparation and for the accomplishment of the works will be given or indicated through the ADD. As a practical work, a **field trip** will be carried out; in this trip, the students will apply and recognize on the territory the theoretical contents previously treated.

c) Apart from the theory and practice activities, there are sessions of face-to-face and **personalized tutoring,** individually or in groups, during the stipulated hours. The tutorials will not be done by email.

5.2.Learning tasks

The learning process that has been designed for this subject is based on the following:
1 - Theoretical classes:
They will be 6 sessions, 50 minutes each and will generally be addressed as master classes, although teaching methods such as 'inverted classroom' and 'problem-based learning' may also be used to work on some theoretical contents.
Theoretical classes will require the participation of students, who will interact with explanations, making comments or debating, showings readings, presenting or participating case studies, solving problems, etc., either individually or in group.
Before tackling each topic, the teacher will deliver reading material and bibliography through the Digital Teaching Ring (ADD). The recommended bibliography, both basic and complementary, is also specified. Before each theoretical theme, the necessary indications to develop the learning based on the 'inverted classroom' or work on specific problems will be given.
The teacher will also deliver the images projected in class (Power Point), in which schematic and summarized ideas of the theoretical contents treated in class will appear.
2- Practical classes:
a) Practical work:
The necessary material for the preparation of these works will be given or indicated before each session.
b) Field trip:
A field trip is planned as a practical work, in which the theoretical contents seen in the subject will be recognize by the student in the territory.
3- Tutorials:
To follow the activities of theory and practice, personalized tutoring sessions and / or groups are available at the specified hours. Tutorials will not be conducted by email.
Among the activities, a lecture by an external collaborator will be given, in which theoretical aspects of the subject will be discussed.

5.3.Syllabus

Theory program:
Theme 1. The growth and distribution of the population. Inequalities and socio-environmental and territorial problems.
Theme 2. Transport and mobility of the population.
Theme 3. The urbanization process: the motor of social and territorial transformations.

Theme 4. The sustainability of rural areas: depopulation.
Theme 4. Tourism, territory and environment.
Theme 6. Economic growth and environmental consequences.
Each of these sections of the program will spend about 2 hours, or something else, in the classroom, which will cover the theoretical 16 hours.

5.4.Course planning and calendar

The information of the subject will be presented on the first day of class of each year and will be placed in the Digital Ring Teaching (ADD), so it is highly recommended the attendance of those who intend to enroll in it.

This subject of 3 ECTS credits has an estimated dedication on the part of the student of 75 hours, both between the face-to-face and non-face-to-face activities. These hours should be distributed evenly throughout the semester, as can be seen in the following table-calendar (the numbers represent the hours):

Type of activities / Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Total
	20/09	27/09	04/10	11/10	18/10	25/10	01/11	08/11	15/11	22/11	29/11	06/12	13/12	20/12	27/12	03/01	10/01	17/01	24/01	
Actividad Presencial																				31,5
Theory	2	2		2		2		2		2			2				2			16
			2		2		2		2					2						10
Fieldwork (practice)											4									4
Evaluation																			1,5	1,5
Activities, non presential																				39,5
Individual work (theory)	1	1	2	2	2	2	2	3	2	2	2	2	2	2	2	2	3	3,5	4	37,5
Individual work (practical)							1		1											2
Total by weeks:	3	3	4	4	4	4	5	5	5	4	6	2	4	4	2	2	5	3,5	5,5	75
	*Atención: En la semana 5, el martes 17 de octubre se seguirá horario de jueves																			
	*Atención: En la semana 8, el lunes 6 de noviembre se seguirá horario de miércoles																			

5.5.Bibliography and recommended resources

BB	Cambio global: impacto de la actividad humana sobre el sistema Tierra / Carlos M. Duarte (coord.); [autores] Juan Carlos Abanades ... [et al.]. Ed. ampl. y rev.

	Madrid: CSIC: Catarata, 2009
BB	Geografía humana de España [Recurso eelctrónico] / coordinador: Juan Romero ; autores: Antonio Ariño ... [et al.] . 1a ed. Valencia : Tirant humanidades, 2017
BB	Geografía humana: procesos, riesgos e incertidumbres en un mundo globalizado / Juan Romero (coord.); José Ortega ... [et al.]. 2ª ed. act. Barcelona: Ariel, 2007
BB	La población rural de España: de los desequilibrios a la sostenibilidad social / Luis Camarero (coordinador); Fátima Cruz ...[et al.]. Barcelona: Fundación La Caixa, D.L. 2009
BB	Sánchez Barricarte, Jesús Javier. El crecimiento de la población mundial: implicaciones socioeconómicas, ecológicas y éticas / Jesús Javier Sánchez Barricarte. Valencia: Tirant lo Blanch, 2008
BC	Agenda local 21: ¿Qué es?, ¿cómo se hace?, ¿para qué sirve la planificación participativa? / [edición a cargo de Jesús Martín]; Luis Enrique Espinoza Guerra ... [et al.]. Madrid: Fundación de Iniciativas Locales, 2003
BC	Castells, Manuel. La era de la información: economía, sociedad y cultura. Vol. 1, La sociedad red / Manuel Castells. 3ª ed., 2ª reimp. Madrid: Alianza, 2005 (reimp. 2011)
BC	Medio ambiente y sociedad : elementos de explicación sociológica / Luis Camarero (coord.) [et al.] . Madrid : Thomson, 2006
BC	Puyol, Rafael. Población y recursos: el incierto futuro / Rafael Puyol Madrid: Pirámide, D.L. 1984
BC	Sociedad y medio ambiente / edición de Jesús Ballesteros y José Pérez Adán . 2ª ed. Madrid : Trotta, 2000

LISTADO DE URLs:

Aguado, I., Barrutia, J.M., Echebarria, C. (2007). La Agenda 21 Local en España. Ekonomiaz. Revista Vasca de Economía, 64 (174-213) [http://www.ogasun.ejgv.euskadi.net/r51-k86aekon/es/k86aEkonomiazWar/ekonor
Brunet, P.J., Almeida, F., Coll, M. (2005). Agenda 21: Subsidiariedad y cooperación a favor del desarrollo territorial sostenible. Boletín de la AGE, 39, 423-446 [http://age.ieg.csic.es/boletin/39/16-AGENDA.pdf]
Camarero, L., coord. (2009). La población rural de España: de los desequilibrios a la sostenibilidad social. Barcelona: Fundación La Caixa [http://www.palencia21rural.com/doc/La%20poblaci%C3%B3n%20rural%20de%2
González, M.J., González, M.L. (2005).

25253 -

Indicadores básicos para la planificación de la sostenibilidad urbana local. Biblio 3W. Revista Bibliográfica de Geografía y Ciencias Sociales, X, (586), 30 de mayo [http://www.ub.es/geocrit/b3w-586.htm]