25229 - Environment Management Projects and Systems

Información del Plan Docente

Academic Year	2016/17
Academic center	201 - Escuela Politécnica Superior
Degree	277 - Degree in Environmental Sciences
ECTS	6.0
Course	4
Period	First Four-month period
Subject Type	Compulsory
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

The learning process designed for this course is based on the following methodologies: Theoretical sessions, Project-based learning, Independent learning and Tutorial.

5.2.Learning activities

The program that the student is offered to achieve the expected results includes the following activities:

- Theoretical sessions. The teacher explains the theoretical content of each session. One of the objectives of this activity will be the promoting of the participation of the students and the cooperative learning.
- Project-based learning. Students gain knowledge and skills by working with examples of real projects. It is included the analysis of environmental information of local and regional administrations.
- Independent learning. The goal of this activity will be to achieve the ability to take charge of one's learning based on individual and group works.
- Tutorial. Students, working in groups or individually, meet up with the professor and discuss their studies.

5.3.Program

Theoretical Programme

1. Introduction. Concept, objectives and characteristics of projects.
2. Types of projects. Phases of a project. General framework.

3. Contents of a classical project.

4. The project in a company. Its management.

5. Detection of opportunities. Client, market and product. Business plan. Business opportunities. Public tenders. The Contract Act of public administrations.

6. Assessment of projects and activities.

7. Preparation of offers and their presentation. Work allocation.

8. Project monitoring. Revision of offers and agreements. Organization and collection of resources. Project configuration control. Changes in the scope of projects. Application to environmental projects.

9. Closure of projects. Acceptance. Closure reports. Project outcome indicators.

Practical Sessions and real case studies on which students will work during the whole subject.

Distance Activities will be done by students without time restrictions and will consist of the exercises proposed during the theoretical and practical sessions.

5.4.Planning and scheduling

It is estimated that an average student should devote to this subject, 6 ECTS, a total of 150 hours. This time must include both classroom and non-attendance activities. The student must ensure that the dedication is distributed evenly throughout the quarter.

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Type Activity	Total
Presential activity	60
⁻ **Theory**	**30**
⁻ **Problems**	**24**
⁻ **Evaluation**	**6**
Non presential work	90
⁻ **Individual work**	**76**
⁻ **Team work**	**14**
TOTAL	150

5.5.Bibliography and recomended resources

BB: Basic Bibliography

BC: Complementary Bibliography

- BB Kiely, Gerard. Ingeniería ambiental : Fundamentos, entornos, tecnologías y sistemas de gestión / Gerard Kiely ; coordinador de la traducción y revisión técnica, José Miguel Veza . 1a ed. en español Madrid : McGraw-Hill, D.L. 1999
- BB Margalef, Ramón. Ecología / Ramón Margalef . 10a reimp. Barcelona : Omega, cop. 2005
- BB Restauración hidrológico forestal de cuencas y control de la erosión : ingeniería medioambiental / [dirección, Filiberto López Cadenas de Llano ; colaboradores, Gonzalo Fernández Tomás...(et al.)] . 2ª ed., rev. y amp. Madrid : TRAGSA : TRAGSATEC : Ministerio de Medio Ambiente : Mundi-Prensa, 1998
- BB Granero Castro, Javier. Cómo implantar un sistema de gestión ambiental según la norma ISO 14001:2004 :/ Javier Granero Castro, Miguel Ferrando Sánchez . 2ª ed. Madrid : Fundación Confemetal, 2009
- BB Gómez Orea, Domingo. Consultoría e ingeniería ambiental : planes, programas, proyectos, estudios, instrumentos de control ambiental, dirección y ejecución ambiental de obra, gestión ambiental de actividades / Domingo Gómez Orea, Mauricio Gómez Villarino . Madrid : Mundi-Prensa, 2007
- BB La evaluación del impacto ambiental de proyectos y actividades agroforestales / coordinadores, Manuela Andrés Abellán, Francisco Antonio García Morote . Cuenca : Universidad de Castilla-La Mancha, 2006
- 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|g(reimpr. 2000)