66213 - Environmental Management in Industry

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	531 - Master's in Chemical Engineering
ECTS	6.0
Year	1
Semester	First semester
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

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

- Lectures to develop the theoretical bases of the course and solving some model problems
- Practice sessions (cases). The kinds of problems, cases and visits to industries are the effective complement to the lectures. They allow to verify understanding of the contents and also to present a more practical and applied

approach.
- Special sessions (visits to companies ...).
- An assignment and its public defense.
- Continuous work and student participation.

5.2.Learning tasks

The course includes the following learning tasks:

- Lectures (25 hours). The theory of the course syllabus will be taught and problems will be solved.
- Practice sessions (20 hours). In these clases, problems will be solved by students under the supervision of the professor. Problems or cases will be related to the theoretical part explained in lectures.
- Special sessions (15 hours). Complementary activities in the form of visits to industries, experts' talks, thematic seminars, etc.
- Assignment (25 hours). Individual or preferably a group work on the different subjects proposed by teachers or by the students.
- Autonomous work and study (49 hours). It is recommended to study continuously throughout the semester.
- Tutorials (10 hours).
- Assessment (6 hours). There will be a final global exam where the theoretical and practical contents learnt by the student will be assessed.

5.3.Syllabus

The course will address the following topics:

SECTION 1. INTRODUCTION

- Topic 1. Distribution of competences between administrations
- Topic 2. Regulation of business-administration relations

SECTION 2. ADMINISTRATIVE AUTHORIZATIONS

- Topic 3. Regime of administrative authorizations and requirements: waste, air, waste and soil
- Topic 4. Integrated Environmental Authorizations
- Topic 5. Promotion of environmental activities: environmental taxes and environmental investment certificates

SECTION 3. BEST AVAILABLE TECHNIQUES (BAT)

- Topic 6. Environmental impact of industries in various sectors. Application of Best Available Techniques (BAT)

SECTION 4. MANAGEMENT SYSTEMS

- Topic 7. Environmental management systems: EMAS and ISO 14001

5.4.Course planning and calendar

The assignment will be presented in a public session during the last sessions of the course.

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 EINA website.

5.5.Bibliography and recommended resources

BB	Carretero Peña, Antonio. Aspectos ambientales : identificación y evaluación /

66213 - Environmental Management in Industry

BB

Antonio Carretero Peña . - [2ª ed.] Madrid : AENOR, D. L. 2007
Gestión ambiental . - 3ª ed. Madrid : AENOR, 2011

LISTADO DE URLs:

Documentos BREF - [http://www.prtr-es.es/documentos/documentos-mejores-tecnicas-disponibles]
Guía de las mejores tecnolgías dsiponibles en España del sector cervecero. Ed. Ministerio del Medio Ambiente, 2005. - [http://www.prtr-es.es/Data/images//Gu%C3%ADa%20MTD%20en%20Espa%C3
Guía de las mejores tecnolgías dsiponibles en España del sector de elaboración de malta. Ed. Ministerio del Medio Ambiente, 2009. - [http://www.prtr-es.es/Data/images//Gu%C3%ADa-MTD-en-Espa%C3%B1a-Malta
Prevención y control integrados de la contaminación (IPPC) : documento de referencia de mejores técnicas disponibles en la industria de fabricación de vidrio : documento BREF [Madrid] : Ministerio de Medio Ambiente, Centro de Publicaciones, 2004 - [http://www.prtr-es.es/Data/images//BREF%20Vidrio%20%28versi%C3%B3n%20
Prevención y control integrados de la contaminación (IPPC) : documento de referencia de mejores técnicas disponibles en la industria de la pasta y el papel : documento BREF [Madrid] : Ministerio de Medio Ambiente, Centro de Publicaciones, 2006 - [http://www.prtr-es.es/Data/images//Resumen%20Ejecutivo%20BREF%20Pasta%
Prevención y control integrados de la contaminación (IPPC) : documento de referencia de mejores técnicas disponibles en la industria de procesos de metales no férreos : documento BREF [Madrid] : Centro de Publicaciones, Ministerio de Medio Ambiente, 2005 - [http://www.prtr-es.es/Data/images//Resumen%20Ejecutivo%20BREF%20Metalur