

SUBJECT TEACHING GUIDE

M2115 - Environmental Management Instruments

Master's Degree in Environmental Engineering and Management

Academic year 2022-2023

1. IDENTIFYING DATA					
Degree	Master's Degree in Environmental Engineering and Management			Type and Year	Compulsory. Year 1
Faculty	School of civil Engineering				
Discipline	Basis of Environmental Engineering				
Course unit title and code	M2115 - Environmental Management Instruments				
Number of ECTS credits allocated	3	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. CIENCIAS Y TECNICAS DEL AGUA Y DEL MEDIO AMBIENTE				
Name of lecturer	MARIA LUISA PEREZ GARCIA				
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Other lecturers	XABIER EDUARDO MORENO-VENTAS BRAVO				

3.1 LEARNING OUTCOMES

- Knowledge and use of the appropriate technology of discipline.
Differentiation, relationship and classification of the different environmental management instruments .
- Ability to apply the principles, objectives and regulations of the different instruments of environmental management .
- Management of models and regulations for the application of environmental management instruments.
- Knowledge of the advantages of incorporating environmental management instruments in companies.

4. OBJECTIVES

Know the different instruments of environmental management , the advantages they represent, the rules and regulations for their application.

6. COURSE ORGANIZATION

CONTENTS	
1	The company as a system. Economic model versus ecological model. Sustainable development.
2	Environmental impact. Environmental management. The environmental management instruments.
3	The legislative instruments.
4	Preventive instruments: Environmental impact assessment of plans. Integrated environmental authorization.
5	Informative Instruments.
6	Notary instruments: the management systems environmental, ecobalances, environmental audits.
7	Corrective instruments: rehabilitation, reuse, restoration, enhancement, improvement.
8	Economic instruments: direct negotiation, taxes, fees, tax incentives.
9	Social instruments, environmental education, public participation.
10	Auxiliary tools. Information Systems Geographic, ecological carbon footprint and ecological water footprint. Remote sensing.
11	Group work proposal
12	Evaluation

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Theoretical exam (70 %)	Written exam	Yes	Yes	70,00
Oral Presentation (30 %)	Work	Yes	No	30,00
TOTAL				100,00
Observations				
It will be necessary to pass the theoretical exam (70 %) and the presentation of the group work (30 %) to obtain the final grade of the subject. Only for duly justified causes (eg. health restrictions), the evaluation tests may organize remotely, with prior authorization from the center management.				
Observations for part-time students				
Students on a part-time dedication regime will undergo an evaluation process that will consist of taking a written exam of the subject taught (70% of the final grade) and submitting a work related to one of the instruments environmental management (30% of the final grade)				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

- Bautista, C. y Mercati, L. 2000. Guía Práctica de la Gestión Ambiental. Mundi-Prensa. Madrid.
- Canter, L. 1997. Manual de evaluación de impacto ambiental. Mc Graw Hill. Madrid.
- Conesa, V. 1997. Los Instrumentos de la Gestión Ambiental en la Empresa. Mundi-Prensa. Madrid.
- Gómez Orea, Domingo. 1999. Impacto ambiental. Mundi-Prensa. Madrid.
- Gómez Orea. 2007. Evaluación Ambiental Estratégica. Mundi-Prensa. Madrid.
- Gómez Orea y Gómez Villarino, M. 2007. Consultoría e Ingeniería Ambiental. Mundi-Prensa. Madrid.
- Lamprecht, J.L. 1997. ISO 14000. Directrices para la Implantación de un Sistema de Gestión Medioambiental. AENOR. Madrid.

