

SUBJECT TEACHING GUIDE

684 - Environmental Management Instruments

Master's Degree in Environmental Engineering and Management

Academic year 2023-2024

| 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 | 684 - Environmental Management Instruments | | | | |
| Number of ECTS credits allocated | 3 | Term | Semester based (1) | | |
| Web | | | | | |
| Language of instruction | Spanish | English Friendly | No | Mode of delivery | Face-to-face |

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|------------------|---|--|--|--|--|
| 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.

