

Centre	University College of Engineering of Vitoria-Gasteiz
Name of subject	26040 – Fundamentals of Environmental Technology and Management
Qualification	Degree in Computer Management and Information Systems Engineering
Type	Elective
Credits	4.5 ECTS
Year	4
Term(s)	1st
Department	Computer Languages and Systems
Language	Spanish

Outcomes / Objectives

Environmental effects of the current economic development. Sustainable development. Computer simulation (algorithms, etc.) for pollution control. Minimisation and recovery as management strategies. Environmental management.

Syllabus

The environment system. Pollution. Introduction to the environmental problem of waste. Computer waste management. Concept of waste. Waste generating activities. Management options. Treatment of computer waste. Application of waste separation technologies. Separation of solid waste. Environmental legislation applicable in the area of computers. State and European regulations concerning computer-related activities. Simulation systems to evaluate the sustainability of processes. Simulation programmes with application in pollution treatments.

Methodology

Teaching Method

Face-to-Face Teaching Hours

Lectures	Seminars	Classroom practice	Lab. practice	Computer sessions	Clinical practice	Workshops	Industrial workshops	Field practice
27	9	9						

Student Hours of Non Face-To-Face Activities

Lectures	Seminars	Classroom practice	Lab. practice	Computer sessions	Clinical practice	Workshops	Industrial workshops	Field practice
27	27	13,5						

Bibliography

Basic Bibliography

- INTRODUCCIÓN AL ESTUDIO DE LA CONTAMINACIÓN Y SU CONTROL. Alfonso Contreras López, Mariano Molero Meneses. Universidad Nacional de Educación a Distancia, Madrid 1995
- INGENIERÍA DEL MEDIO AMBIENTE. Mariano Seoáñez. Calvo Coedición: Ediciones Mundi
- Prensa / Análisis y trabajos prospectivos, S.L. Madrid 1996

In-depth Bibliography

- INGENIERÍA DEL MEDIO AMBIENTE. Mariano Seoáñez. Calvo Coedición: Ediciones Mundi
- Prensa / Análisis y trabajos prospectivos, S.L. Madrid 1996
- EVALUACIÓN DE IMPACTO AMBIENTAL. Domingo Gómez Orea

Websites

- Ministerio Medio Ambiente: <http://www.marm.es/>
- Environmental Protection Agency (USA): <http://www.epa.gov/>