

SUBJECT TEACHING GUIDE

G776 - Projects and the Environment

Degree in Chemical Engineering

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Degree in Chemical Engineering			Type and Year	Compulsory. Year 3
Faculty	School of Industrial Engineering and Telecommunications				
Discipline	Subject Area: Industrial Environmental Sustainability, Project Organisation and Management, and Technical Department Module: Compulsory Training in Common with the Industrial Branch				
Course unit title and code	G776 - Projects and the Environment				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. INGENIERIAS QUIMICA Y BIOMOLECULAR
Name of lecturer	MARIA JOSE RIVERO MARTINEZ
E-mail	mariajose.rivero@unican.es
Office	E.T.S. de Ingenieros Industriales y de Telecomunicación. Planta: - 2. DESPACHO (S2014)
Other lecturers	JOSE ANTONIO FERNANDEZ FERRERAS GABRIEL ZARCA LAGO

3.1 LEARNING OUTCOMES

- Develop project organization and staffing, define management functions, develop time management approaches and implement integrated project management techniques.

Educate students on the key elements of an integrated approach to environmental project management, an endeavor that requires expertise in scientific, engineering, legal, public policy, and project management disciplines.

4. OBJECTIVES

To introduce the student of Environmental Project Management to the basic definitions, concepts and structures associated with the management of projects, and to familiarize the student with the project management profession.

To develop a thorough understanding of a project's life cycle.

Explore the concept of an "environmental project" and how environmental projects are managed.

6. COURSE ORGANIZATION

CONTENTS

1	Project Design Documents
2	Principles of Project Management
3	Regulatory Environment
4	Case Studies

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Exam 1. Multiple choice test corresponding to Unit 1 and 2.	Written exam	No	Yes	35,00
Exam 2. Multiple choice test corresponding to Unit 3.	Written exam	No	Yes	35,00
Case studies will be presented in a portfolio.	Others	No	Yes	30,00
TOTAL				100,00

Observations

Continuous assessment requires attendance to case studies (min. 70%) and delivery of the portfolio.
Students can retake Exam 1 and Exam 2 in June. In september there is a single exam for the three units.

Observations for part-time students

In the case of part-time students there will be single exam for the whole subject and the delivery of the Case Studies will be required.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Asociación Española de Normalización y Certificación (2008) Gestión ambiental: normas UNE. 2ª ed., AENOR, Madrid.

Conesa Fernández-Vitoria, V. (2010). Guía metodológica para la evaluación del impacto ambiental. 4ª ed. rev. y ampl. Mundi-Prensa, Madrid.

Horine, G. M. (2010) Manual imprescindible de gestión de proyecto. Anaya Multimedia, Madrid.

Jonker, J., Harmsen, J. (2013) Ingeniería para la sostenibilidad: Guía práctica para el diseño sostenible. Reverté, Barcelona.

Kerzner, H. (2013) Project management: a systems approach to planning, scheduling, and controlling, 11th ed., John Wiley & Sons, Inc., New Jersey.

Martínez de Pisón, F.J., Ordieres, J., Castejón, M., De Cos, F.J., Vergara, E.P., Alba, F. (2002) La oficina técnica y los proyectos industriales, Copy Center, Zaragoza.

Project Management Institute (PMI) (2017) Guía de los fundamentos para la dirección de proyectos (Guía del PMBOK), 6ª edición, Project Management Institute, Pennsylvania.

Sinnot, R., Towler, G. (2012) Diseño en ingeniería química, Reverté, Barcelona.