

SUBJECT TEACHING GUIDE

G776 - Projects and the Environment

Degree in Chemical Engineering First Degree in Chemical Engineering

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Chemical Engineering First Degree in Chemical Engineering			Type and Year	Compulsory. Year 3 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 MARIA JOSE RIVERO MARTINEZ (S2014)				
Other lecturers	LUCIA GOMEZ COMA FERNANDO PARDO PARDO				

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. SUBJECT PROGRAM

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 active participation in the case studies (min. 70%) and delivery of the portfolio. Students can retake Exam 1 during the ordinary period and Exam 1 and 2 in the extraordinary period.

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

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.

Project Management Institute (PMI) (2021) Guía de los fundamentos para la dirección de proyectos (Guía del PMBOK) y el estándar para la dirección de proyectos, 7ª edición, Project Management Institute, Pennsylvania.

Rodríguez, J.J., Ferro, V.R., Mateo, S., Navarro, P., Suárez, J.D. (2023) El proyecto en Ingeniería Química, editorial Síntesis, Madrid.

Sebastian, M.A., Arenas, J.M., Claver, J. (2017) Oficina técnica y proyectos, UNED

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

