School of Mines and Energy Engineering

## SUBJECT TEACHING GUIDE

## 1122 - Management of an energy investment project

## Master's Degree in mining engineering

### Academic year 2023-2024

1. IDENTIFYING DAT	A					
Degree	Master's Degree in mining engineering		Type and Year	Optional. Year 2		
Faculty	School of Mines and Energy Engineering					
Discipline	BLOCK II, SPECIALTY ENERGY Optional Module					
Course unit title and code	1122 - Management of an energy investment project					
Number of ECTS credits allocated	3	Term		Semester based (1)		
Web						
Language of instruction	Spanish	English Friendly	No	Mode of o	delivery	Face-to-face

Department	DPTO. INGENIERIA ELECTRICA Y ENERGETICA	
Name of lecturer	LUIS VICENTE ORTIZ DE ZARATE VIDAL	
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Office		

#### **3.1 LEARNING OUTCOMES**

- Students will gain the knowledge and skills necessary for proper management of energy investment projects.



#### 4. OBJECTIVES

To show students the technical and non-technical constraints associated with energy investment projects. To describe agents and interest groups that usually participate in energy projects. To discuss the importance of considering properly the applicable law, the environment and funding sources of projects.

Describe the agents and interest groups that generally participate in energy projects, taking into account the different forms of development that a project of these characteristics can have (promoter, financial entity, engineering, authorities, etc.).

Develop a complete financial-economic analysis of an energy project including the following chapters: Investment, Amortisation, Financing, Expected Profit and Loss Account, Cash Flows and Profit and Loss Account.

Analyse the importance of taking into account current technical legislation, environmental legislation and sources of project funding, the latter being essential for the realisation of projects.

Address the key factors in the development of an energy project: Formulation, Planning, Strategies and Risks.

To familiarise the student with the complex processes involved in the development of an energy project and to gain an overview of the problems dealt with in the course.

# 6. COURSE ORGANIZATION

	CONTENTS					
1	Block 1: Introduction to energy investment projects. a) Definition. b) Life Cycle					
2	Block2: Technical and non-technical project constraints. Agents of energy projects. Stakeholders of energy projects.					
3	Block3: Legislation. Environment. Financing energy projects.					

7. ASSESSMENT METHODS AND CRITERIA							
Description	Туре	Final E	val. Reassess	sn %			
Continuous assessment	Work	No	Yes	30,00			
Final exam	Written exam	Yes	Yes	70,00			
TOTAL 100,00							
Observations							
Attendance to at least 80% of classes is a requirement of the subject.							
Observations for part-time students							
Part-time students will present the work in February or September.							

#### 8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Materiales suministrados por los profesores de la asignatura.