

## SUBJECT TEACHING GUIDE

### G611 - Management of Energy Production

#### Degree in Energy Resources Engineering First Degree in Energy Resources Engineering

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Energy Resources Engineering First Degree in Energy Resources Engineering			Type and Year	Optional. Year 3 Optional. Year 3
Faculty	School of Mines and Energy Engineering				
Discipline	Optional Subjects for Energy Resources Module: Optional Training				
Course unit title and code	G611 - Management of Energy Production				
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. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS				
Name of lecturer	NOEMI BARRAL RAMON				
E-mail	noemi.barral@unican.es				
Office	E.P. de Ingeniería de Minas y Energía. Planta: + 2. DESPACHO (233)				
Other lecturers	JAVIER SEDANO CIBRIAN				

### 3.1 LEARNING OUTCOMES

-Once the subject has been passed, the student will have acquired enough knowledge to lead and manage a power generation facility, and to guarantee and adequate transportation, processing and management of electrical and thermal energy. The student must be able to deal with logistics and energy distribution industry.

### 4. OBJECTIVES

The main objectives of this subject consist of providing the student with specific training about management of thermal and electric energy generation facilities, and also about its transportation and transformation.

6. SUBJECT PROGRAM	
CONTENTS	
1	Management 1. Introduction to Operations Management. 2. Design of operations. 3. Resource Planning.
2	PRODUCTION GESTION 1. Stock Management (purchase and storage of raw materials). 2. Aggregate Production Planning. 3. Programming of materials necessities. 4. Maintenance and reliability. 5. Quantitative methods for decision making
3	ENERGETIC RESOURCES 1. Markets. 2. Cost of sales. 3. Financial transactions in commodities.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Exam	Written exam	Yes	Yes	60,00
Test	Written exam	No	Yes	20,00
Individual work	Work	No	Yes	20,00
TOTAL				100,00
Observations				
Continuous evaluation will be considered in the event that the grade of 5 has been exceeded in the written examination of the subject. Those students who do not obtain this minimum grade will obtain the final grade of the subject obtained in the written exam. The grades obtained from the continuous evaluation will be kept until the July sitting.				
Observations for part-time students				
Part-time students will be evaluated according to the Regulations of the University of Cantabria. They have the option of performing the test the day of the final exam.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
MANUAL DE EVALUACIÓN TÉCNICO ECONÓMICA DE PROYECTOS MINEROS DE INVERSIÓN. Instituto Tecnológico GeoMinero de España. I.S.B.N. 84-7840-305-1 INTRODUCCIÓN A LA METODOLOGÍA DE INVESTIGACIÓN MINERA. Instituto Geológico y Minero de España. Azcárate. I.S.B.N. 84-600-2687-6
APUNTES BÁSICOS DE CLASE. Facilitados por el profesor.

