

## SUBJECT TEACHING GUIDE

### 1134 - Project and execution of facilities for fuels

Master's Degree in mining engineering

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Academic year 2025-2026

1. IDENTIFYING DATA					
Degree	Master's Degree in mining engineering Master's Degree in mining engineering			Type and Year	Compulsory. Year 1 Compulsory. Year 1
Faculty	School of Mines and Energy Engineering				
Discipline	MINING				
Course unit title and code	1134 - Project and execution of facilities for fuels				
Number of ECTS credits allocated	4,5	Term	Semester based (2)		
Knowledge Field	Architecture, construction, building and urban planning, civil engineering Architecture, construction, building and urban planning, civil engineering				
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	JAVIER SEDANO CIBRIAN				
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Office	E.P. de Ingeniería de Minas y Energía. Planta: + 2. DESPACHO (232)				
Other lecturers					

#### 4. OBJECTIVES

Acquire a set of basic knowledge to Project and design a fuel facility

6. SUBJECT PROGRAM	
CONTENTS	
1	CHAPTER I: BASIC ENGINEERING.
2	CHAPTER II: DETAILED ENGINEERING.
3	THEMATIC BLOCK III: CONSTRUCTION.
4	CHAPTER IV: COMMISSIONING AND START-UP.
5	THEMATIC BLOCK V: TRANSPORT AND STORAGE OF SOLIDS, LIQUIDS AND GASES.

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
FINAL EXAM - Written Evaluation.	Written exam	Yes	Yes	60,00
ESSAY - Essay Evaluation (Group essay).	Work	No	Yes	25,00
PRACTICES - Practical evaluation - Resolution of practical cases.	Others	No	Yes	15,00
TOTAL				100,00
Observations				
The minimum scores required to pass the subject is 4.0 for the final exam, and 5 for the subject as a whole (taking into account the continuous evaluation). The maximum final numerical grade in the case of not passing the final exam would be 4.9.				
Observations for part-time students				
Part-time students will be evaluated according to the Regulations of the University of Cantabria. In addition to passing the final exam, they will be offered the possibility to hand the two essays and the practical activities individually , on a date to be agreed with them.				

8. BIBLIOGRAPHY AND TEACHING MATERIALS
BASIC
El gas natural. Del yacimiento al consumidor. Eloy Álvarez Pérez y Jacobo Balbán Peláez
El Gas natural. Andrés Pulgar Díaz y María del Rosario Olay Lorenzo
Apuntes de la Asignatura. Facilitados por el profesor