

## SUBJECT TEACHING GUIDE

### G630 - Mining Projects

#### Degree in Mining Resources Engineering First Degree in Mining Resources Engineering

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Mining Resources Engineering First Degree in Mining Resources Engineering			Type and Year	Compulsory. Year 3 Compulsory. Year 4
Faculty	School of Mines and Energy Engineering				
Discipline	Subject Area: Engineering Projects Module: Training in Common with the Mining Branch				
Course unit title and code	G630 - Mining Projects				
Number of ECTS credits allocated	6	Term	Semester based (1)		
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	SANTIAGO SALGUERO PEREDA				
E-mail	santiago.salguero@uncan.es				
Office					
Other lecturers					

### 3.1 LEARNING OUTCOMES

- Knowledge for Development of Project Management, applied to the management, drafting and development of mining projects.

### 4. OBJECTIVES

The specific objectives are to provide knowledge in organizational and management matters in drafting and implementing development projects and learning methodologies and regulations applicable to the drafting projects.

**6. SUBJECT PROGRAM**

**CONTENTS**

1	<p><b>THEMATIC BLOCK I: CONCEPT AND GENERAL THEORY ABOUT PROJECT</b></p> <p>Issue 1: DEFINITION OF IDEA AND PROJECT          Idea and concept definition          Idea or thought applicable to the project.</p> <p>Issue 2: Dessing theory          Definition of Design          Relationship with the design idea.          Structure Design.          Main objetives.          Phases in design.          Design Methodology.</p> <p>Issue 3: DESIGN METHODOLOGY APPLIED TO THE PROJECT.          - Definition of the Cartesian method.          - Project methodology.</p> <p>Issue 4: THEORY OF PROJECTS.          - Applicable regulations in the drafting.          - Types of projects.          - Inputs, outputs related to the drafting and preparation of projects.          - Structure and project documents.          - Software applied to the writing and project development.</p>
2	<p><b>THEMATIC BLOCK II: ORGANIZATION AND PROJECT MANAGEMENT.</b></p> <p>Issue 5: ORGANIZATION PROJECT.          - Definition of documentary and productive organization.          - Address, strategy, forecasting operations projects.          - Life cycle of the project and organization.          - Planned production capacity dedicated to the project.</p> <p>Issue 6: PROJECT MANAGEMENT AND SCOPE          - Techniques productive organization .          - Project Planning (CPM).          - Project Scheduling (PERT / CPM, ROY, GANTT).          - Time Acceleration Project (Reducing Critical Path).          - Software applied to the organization.</p> <p>Issue 7: MANAGEMENT PROJECT COSTS.          - Definition of project costs and behavior.          - Concept overhead.          - Control of costs.</p>

7. ASSESSMENT METHODS AND CRITERIA				
Description	Type	Final Eval.	Reassessn	%
Individual work on specific matters	Work	No	Yes	20,00
Group work through practical case resolution	Work	No	Yes	20,00
The structure of the final exam consists of a 30 min test of duration and questions of theoretical development of 2 h duration.  The test will have a weight of 25% and development questions 75% of the final exam.  In those cases in which the student has n	Written exam	Yes	Yes	60,00
TOTAL				100,00
Observations				
Observations for part-time students				
Part-time students will be evaluated according to the Regulations of the University of Cantabria.				

#### 8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC
La redacción del proyecto. Aspectos previos y metodología. Fernando Cañizal Berini, M <sup>a</sup> Antonia Pérez Hernando
Manual de diseño de explotaciones mineras. M. Bustillo Revuelta, C. López Jimeno.
Manual de evaluación técnico-económica de proyectos mineros de inversión. IGME
Apuntes de la asignatura dispuestos en el aula virtual y OpenCourseWare. Raúl Husillos Rodríguez