

## SUBJECT TEACHING GUIDE

G630 - Mining Projects

Degree in Mining Resources Engineering

Academic year 2019-2020

1. IDENTIFYING DATA					
Degree	Degree in Mining Resources Engineering			Type and Year	Compulsory. Year 3
Faculty					
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	No	Mode of delivery	Face-to-face

Department	DPTO. TRANSPORTES Y TECNOLOGIA DE PROYECTOS Y PROCESOS				
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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. COURSE ORGANIZATION

### CONTENTS

#### 1 THEMATIC BLOCK I: CONCEPT AND GENERAL THEORY ABOUT PROJECT

##### Issue 1: DEFINITION OF IDEA AND PROJECT

Idea and concept definition

Idea or thought applicable to the project.

##### Issue 2: Design theory

Definition of Design

Relationship with the design idea.

Structure Design.

Main objectives.

Phases in design.

Design Methodology.

##### Issue 3: DESIGN METHODOLOGY APPLIED TO THE PROJECT.

- Definition of the Cartesian method.

- Project methodology.

##### 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.

#### 2 THEMATIC BLOCK II: ORGANIZATION AND PROJECT MANAGEMENT.

##### 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.

##### 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.

##### Issue 7: MANAGEMENT PROJECT COSTS.

- Definition of project costs and behavior.

- Concept overhead.

- Control of costs.

### 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Individual work on specific matters	Work	No	No	20,00
Group work through practical case resolution	Work	No	No	20,00
Final exam	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