

SUBJECT TEACHING GUIDE

G597 - Safety and Energy Legislation

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	Compulsory. Year 3 Compulsory. Year 4
Faculty	School of Mines and Energy Engineering				
Discipline	Subject Area: Mining Pre-Technology Module: Training in Common with the Mining Branch				
Course unit title and code	G597 - Safety and Energy Legislation				
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	BEATRIZ MALAGON PICON				
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Other lecturers	RAQUEL MARTINEZ TORRE JOSE SALMON GARCIA				

3.1 LEARNING OUTCOMES

- Define the basic concepts and principles of security, having to know the basic terminology, as well as the applicable legislation.
- Acquire knowledge of mechanisms and techniques for the prevention of occupational hazards, as well as responsibilities, safety standards, protections and specific techniques for different risks.
- Know the fundamental principles of ergonomics, its current trends and its application to machine design, as well as prevention management in the mining company and in the industry in general.

4. OBJECTIVES

There are three main objectives:

The first one consists of the definition of basic concepts and principles of safety, paying special attention to the basic terminology as well as the current laws.

The second one is related to the acquisition of knowledge on mechanisms and techniques of prevention of occupational risks, as well as the responsibilities, safety standards, protections and the specific techniques to minimize each risk.

The third objective implies the analysis of the main principles of ergonomics, current trends and their application to machine design and management of prevention in the mining company and the industry in general.

6. SUBJECT PROGRAM

CONTENTS

1	Chapter I: Legal framework. Introduction. Legal framework. Mining laws and Mining Rights.
2	Chapter II: Safety and prevention. General Regulation on Mining Safety. Law on Occupational Risk Prevention. Normalization.
3	Chapter III: Energetic markets and laws. Hydrocarbon Law. Market of petroleum products. Electricity market. Electrotechnical Regulation on Low and High Voltage.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Final exam	Written exam	Yes	Yes	60,00
Individual essay	Work	No	Yes	20,00
Group work essay	Work	No	Yes	20,00
TOTAL				100,00
Observations				
In the event that the minimum mark is not exceeded in any of the parts, the final mark will be the minimum of 4.9 and the average obtained counting all the evaluation activities. The marks of the approved parts will be kept until the extraordinary call				
Observations for part-time students				
Partial-time students will be evaluated according to the normative of the University of Cantabria. In addition to the final exam, part-time students will be offered to develop both the individual and group work as individual essays				

8. BIBLIOGRAPHY AND TEACHING MATERIALS**BASIC**

APUNTES DE LA ASIGNATURA

FORMACIÓN EN INDUSTRIAS EXTRACTIVAS. Manual Para Operario de Planta. Establecimiento de Beneficio y puestos comunes en actividades extractivas de exterior. INREMIN, S.L. 2012

FORMACIÓN MINERA. FORMACIÓN PARA LA ACREDITACIÓN DE CALIFICACIÓN INDIVIDUAL DE MAQUINISTA MINERO DE MAQUINARIA FIJA Y MÓVIL. PERFORADORA. INREMIN, S.L. 2012

FORMACIÓN MINERA. FORMACIÓN PARA LA ACREDITACIÓN DE CALIFICACIÓN INDIVIDUAL DE MAQUINISTA MINERO DE MAQUINARIA FIJA Y MÓVIL. JUMBO. INREMIN, S.L. 2012

Manual de seguridad laboral. Ibermutuamur. Ed. P y CH Asociados. Madrid 2002

Manual de Prevención de Riesgos Laborales. Fernando Rescalvo Santiago y Rosa María de Diego López. Ibermutuamur. Ed. P y CH Asociados. Madrid 2002.

Higiene Industrial Aplicada. Manuel Jesús Falagán Rojo. Fundación Fernández Velasco. Oviedo, 2001

Manual de Hergonomía. Fernando Rescalvo Santiago y otros. Ibermutuamur. Madrid 2002

Ley 31/1995 de Prevención de Riesgos Laborales. Ley 34/1998, de 7 de octubre, del sector de hidrocarburos.

Reglamento electrotécnico de Baja Tensión.