

SUBJECT TEACHING GUIDE

G628 - Safety and Mining Legislation

Degree in Mining Resources Engineering

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Degree in Mining Resources Engineering			Type and Year	Compulsory. Year 3
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	G628 - Safety and Mining 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					

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

Definition of basic concepts and principles of safety, must meet the basic terminology as well as the applicable law.
 Acquiring knowledge on mechanisms and techniques of prevention of occupational risks, as well as the responsibilities, safety standards, protections and the various risks the specific techniques.
 Give known to the fundamental 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. COURSE ORGANIZATION

CONTENTS

1	Chapter I: Introduction to safety and basic legal framework. General issues and concepts on safety. Factors of occupational safety. Normalization.
2	Chapter II: Occupational Safety and Hygiene. The accident at work. Justification of prevention. Security techniques. Risks evaluation. Standardization.
3	Chapter III: Ergonomics and Prevention Management. Ergonomics. Training, communication, information and negotiation techniques. Organization and management of prevention.
4	Chapter IV: Environmental Legislation. General scheme, databases on environmental legislation, newsletters, accreditations and certificates.
5	Chapter III Legislation and homologation of mining equipment. Mining laws. Laws on Explosives. Homologation of mining machinery.

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 case 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 and to attend the tests on a date scheduled according to their disponibility.				

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.