

Course guide

330463 - PPM - Material Processing Principles

Last modified: 25/04/2024

Unit in charge: Manresa School of Engineering
Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering.

Degree: BACHELOR'S DEGREE IN MINERAL RESOURCE ENGINEERING AND MINERAL RECYCLING (Syllabus 2021).
(Compulsory subject).

Academic year: 2024 **ECTS Credits:** 6.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: Josep Oliva

Others: Josep Oliva

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

Design, operation and maintenance basics of mineral processing plants, industrial and ornamental rocks, construction materials and waste.

STUDY LOAD

Type	Hours	Percentage
Self study	90,0	60.00
Hours medium group	60,0	40.00

Total learning time: 150 h

CONTENTS

title english

Description:

content english

Full-or-part-time: 30h

Theory classes: 15h

Practical classes: 15h



title english

Description:

content english

Full-or-part-time: 30h

Theory classes: 15h

Practical classes: 15h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- King, R. P; Schneider, C. L; King, E. A. Modeling and simulation of mineral processing systems [on line]. 2nd ed. Englewood (Colorado): Society for Mining, Metallurgy and Exploration, 2012 [Consultation: 25/07/2023]. Available on: <https://www-sciencedirect-com.recursos.biblioteca.upc.edu/book/9780080511849/modeling-and-simulation-of-mineral-processing-systems>. ISBN 9780873353458.
- Kelly, Errol G; Spottiswood, David J. Introducción al procesamiento de minerales. México: Limusa, 1990. ISBN 9681833376.
- Wills, B. A; Torres Reyes, Alejandro; Huerta Cerdan, Antonio. Tecnología de procesamiento de minerales : tratamiento de menas y recuperación de minerales. México D.F: Limusa : Noriega, 1987. ISBN 9681819861.
- Weiss, Norman L. SME mineral processing handbook. New York: Society of Mining Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers, 1985. ISBN 0-89520-433-6.
- Abouzeid, A. Z. M. Mineral processing laboratory manual. Clausthal-Zellerfel: Trans Tech, cop. 1990. ISBN 0-87849-082-5.
- Gupta, A; Yan, D. S. Mineral processing design and operations : an introduction [on line]. Second edition. Amsterdam: Elsevier, 2016 [Consultation: 06/10/2023]. Available on: <https://www-sciencedirect-com.recursos.biblioteca.upc.edu/book/9780444635891/mineral-processing-design-and-operations>. ISBN 9780444635921.