

Course guide

330413 - DIM - Mineral Deposits

Last modified: 04/05/2023

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

Degree: BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Compulsory subject).
BACHELOR'S DEGREE IN MINERAL RESOURCE ENGINEERING AND MINERAL RECYCLING (Syllabus 2021). (Compulsory subject).

Academic year: 2023 **ECTS Credits:** 4.5 **Languages:** Catalan

LECTURER

Coordinating lecturer: Alfonso Abella, Maria Pura

Others:

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:

1. (ENG) Elaboració i interpretació de plànols i mapes geològics.
2. (ENG) Modelització de jaciments miners.
3. (ENG) Direcció facultativa de explotacions mineres.
4. (ENG) Capacitat d'anàlisi i síntesi.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

STUDY LOAD

Type	Hours	Percentage
Hours medium group	45,0	40.00
Self study	67,5	60.00

Total learning time: 112.5 h

CONTENTS

title english

Description:

content english

Full-or-part-time: 7h 30m

Theory classes: 3h

Self study : 4h 30m



title english

Description:

content english

Full-or-part-time: 17h 30m

Theory classes: 6h

Laboratory classes: 1h

Self study : 10h 30m

title english

Description:

content english

Full-or-part-time: 72h 30m

Theory classes: 15h

Laboratory classes: 14h

Self study : 43h 30m

title english

Description:

content english

Full-or-part-time: 10h

Theory classes: 4h

Self study : 6h

title english

Description:

content english

Full-or-part-time: 5h

Theory classes: 2h

Self study : 3h

ACTIVITIES

name english

Full-or-part-time: 7h 30m

Laboratory classes: 3h

Self study: 4h 30m



name english

Full-or-part-time: 30h

Laboratory classes: 12h

Self study: 18h

name english

Full-or-part-time: 7h 30m

Theory classes: 3h

Self study: 4h 30m

name english

Full-or-part-time: 5h

Theory classes: 2h

Self study: 3h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Bustillo Revuelta, M.; López Jimeno, C. Recursos minerales: tipología, prospección, evaluación, explotación, mineralurgia, impacto ambiental. Madrid: [s.n], 1996. ISBN 8492170808.
- Craig, J. R.; Vaughan, D. J.; Skinner, B. J. Resources of the earth: origin, use and environmental impact. 3rd ed. Upper Saddle River: Prentice Hall, 2001. ISBN 0130834106.
- Cox, D. P.; Singer, D. A., eds. Mineral deposit models [on line]. Washington: USGS, 1986 [Consultation: 17/12/2020]. Available on: <http://pubs.usgs.gov/bul/b1693/html/bullfrms.htm>.
- Evans, A. M. Ore geology and industrial minerals: an introduction. 3rd ed. Oxford: Blackwell Scientific Publications, 1993. ISBN 0632029536.
- Edwards, R.; Atkinson, K. Ore deposit geology and its influence on mineral exploration. London: Chapman & Hall, 1986. ISBN 0412247003.
- Kesler, Stephen E. Mineral resources, economics and the environment. New York: Macmillan College Publishing Company, 1994. ISBN 0023628421.
- Barnes, H. L., ed. Geochemistry of hydrothermal ore deposits. 3rd ed. New York: John Wiley & Sons, 1997. ISBN 047157144X.
- Lunar, R.; Oyarzun, R. Yacimientos minerales: técnicas de estudio, tipos, evolución metalogénica, exploración. Madrid: Centro de Estudios Ramón Areces, 1991. ISBN 8487191746.
- Orche, E. Manual de evaluación de yacimientos minerales. Madrid: Carlos López Jimeno, 1999. ISBN 8492170891.
- Guines García, J.; Martínez Frías, J., coords. Recursos minerales de España. Madrid: Consejo Superior de Investigaciones Científicas, 1992. ISBN 8400072634.

Complementary:

- Per cada contingut s'indicaran diverses referències específiques que figuraran al final de cada tema en els ppt penjats a l'Atenea.