

## Course guide

### 330413 - DIM - Mineral Deposits

Last modified: 13/11/2024

**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).  
BACHELOR'S DEGREE IN ENVIRONMENTAL ENGINEERING / BACHELOR'S DEGREE IN MINERAL RESOURCE ENGINEERING AND MINERAL RECYCLING (Syllabus 2024). (Compulsory subject).  
BACHELOR'S DEGREE IN MINERAL RESOURCE ENGINEERING AND MINERAL RECYCLING / BACHELOR'S DEGREE IN ENVIRONMENTAL ENGINEERING (Syllabus 2024). (Compulsory subject).

**Academic year:** 2024    **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.

**Transversal:**

5. GENDER PERSPECTIVE: An awareness and understanding of sexual and gender inequalities in society in relation to the field of the degree, and the incorporation of different needs and preferences due to sex and gender when designing solutions and solving problems.

#### 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

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### 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

Self study: 4h 30m

Laboratory classes: 3h

### name english

**Full-or-part-time:** 30h

Self study: 18h

Laboratory classes: 12h

### name english

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

Self study: 4h 30m

Theory classes: 3h

### name english

**Full-or-part-time:** 5h

Self study: 3h

Theory classes: 2h

## GRADING SYSTEM

## BIBLIOGRAPHY

### Basic:

- Barnes, H. L., ed. Geochemistry of hydrothermal ore deposits. 3rd ed. New York: John Wiley & Sons, 1997. ISBN 047157144X.
- Bustillo Revuelta, M.; López Jimeno, C. Recursos minerales: tipología, prospección, evaluación, explotación, mineralurgia, impacto ambiental. Madrid: [s.n], 1996. ISBN 8492170808.
- 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>.
- Edwards, R.; Atkinson, K. Ore deposit geology and its influence on mineral exploration. London: Chapman & Hall, 1986. ISBN 0412247003.
- 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.
- Evans, A. M. Ore geology and industrial minerals: an introduction. 3rd ed. Oxford: Blackwell Scientific Publications, 1993. ISBN 0632029536.
- Guines García, J.; Martínez Frías, J., coords. Recursos minerales de España. Madrid: Consejo Superior de Investigaciones Científicas, 1992. ISBN 8400072634.
- Kesler, Stephen E. Mineral resources, economics and the environment. New York: Macmillan College Publishing Company, 1994. ISBN 0023628421.
- 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.

**Complementary:**

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