

330413 - DIM - Mineral Deposits

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
 Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)
 ECTS credits: 4,5 Teaching languages: Catalan

Teaching staff

Coordinator: Alfonso Abella, Maria Pura

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.

Learning objectives of the subject

Study load

Total learning time: 112h 30m	Hours large group:	0h	0.00%
	Hours medium group:	45h	40.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	67h 30m	60.00%

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Content

title english	Learning time: 7h 30m Theory classes: 3h Self study : 4h 30m
Description: content english	
title english	Learning time: 17h 30m Theory classes: 6h Laboratory classes: 1h Self study : 10h 30m
Description: content english	
title english	Learning time: 72h 30m Theory classes: 15h Laboratory classes: 14h Self study : 43h 30m
Description: content english	
title english	Learning time: 10h Theory classes: 4h Self study : 6h
Description: content english	
title english	Learning time: 5h Theory classes: 2h Self study : 3h
Description: content english	

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Planning of activities

name english	Hours: 7h 30m Laboratory classes: 3h Self study: 4h 30m
name english	Hours: 30h Laboratory classes: 12h Self study: 18h
name english	Hours: 7h 30m Theory classes: 3h Self study: 4h 30m
name english	Hours: 5h Theory classes: 2h Self study: 3h

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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: 20/06/2017]. 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.

Others resources: