

330404 - GCG - Geology and Geological Cartography

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: 6 Teaching languages: Catalan

Teaching staff

Coordinator: Biosca Munts, Jose

Degree competences to which the subject contributes

Specific:

1. (ENG) Geologia general i de detall.
2. (ENG) Coneixements bàsics de geologia i morfologia del terreny i la seva aplicació a problemes relacionats amb la enginyeria. Cartografia geològica.

Transversal:

3. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 2. Applying sustainability criteria and professional codes of conduct in the design and assessment of technological solutions.
4. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 2. Using strategies for preparing and giving oral presentations. Writing texts and documents whose content is coherent, well structured and free of spelling and grammatical errors.
5. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.
6. TEAMWORK - Level 1. Working in a team and making positive contributions once the aims and group and individual responsibilities have been defined. Reaching joint decisions on the strategy to be followed.

Learning objectives of the subject

Study load

Total learning time: 150h	Hours large group:	0h	0.00%
	Hours medium group:	60h	40.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

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Content

<p>title english</p>	<p>Learning time: 10h Theory classes: 2h Self study : 8h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 33h Theory classes: 6h Laboratory classes: 7h Self study : 20h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 33h Theory classes: 6h Laboratory classes: 7h Self study : 20h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 40h Theory classes: 8h Laboratory classes: 10h Self study : 22h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 34h Theory classes: 8h Laboratory classes: 6h Self study : 20h</p>
<p>Description: content english</p>	

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Planning of activities

name english	Hours: 9h Self study: 4h Laboratory classes: 5h
name english	Hours: 19h Self study: 7h Laboratory classes: 12h
name english	Hours: 14h Self study: 6h Laboratory classes: 8h
name english	Hours: 14h Self study: 6h Laboratory classes: 8h
name english	Hours: 8h Theory classes: 2h Self study: 6h
name english	Hours: 8h Theory classes: 2h Self study: 6h
name english	Hours: 11h Theory classes: 3h Self study: 8h

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Bibliography

Basic:

Tarback, Edward J.; Lutgens, Frederick K. Ciencias de la tierra: una introducción a la geología física [on line]. 8ª ed. Madrid: Prentice Hall, 2005 [Consultation: 21/05/2019]. Available on: <https://discovery.upc.edu/iii/encore/record/C__Rb1510152?lang=cat>. ISBN 8420544000.

Tarback, Edward J.; Lutgens, Frederik K. Earth: an introduction to physical geology. 6th ed. Upper Saddle River: Prentice Hall, 1999. ISBN 970686069X.

Gómez Ortiz, David; Martín Crespo, Tomás; Martín Velázquez, Silvia. Introducción a la geología práctica. Madrid: Centro de Estudios Ramón Areces, 2004. ISBN 8480046538.

Complementary:

Bastida, Fernando. Geología: una visión moderna de las ciencias de la tierra. Vol. 1. Gijón: Trea, 2005. ISBN 8497042026.

Bertran, Jordi; Prats, Montserrat; Tarragó, Mercè. Geologia: batxillerat. Barcelona: Castellnou, 2000. ISBN 8482874829.

Riba i Arderiu, Oriol, i altres. Diccionari de geologia [on line]. Barcelona: Institut d'Estudis Catalans, 1997 [Consultation: 30/09/2016]. Available on: <<http://cit.iec.cat/dgeol/default.asp?opcio=0>>. ISBN 8441227934.

Vera Torres, Juan Antonio. Estratigrafía: principios y métodos. Madrid: Rueda, 1994. ISBN 8472070743.

Pozo, Manuel; González, Javier; Giner, Jorge. Geología práctica: introducción al reconocimiento de materiales y análisis de mapas. Madrid: Prentice Hall, 2004. ISBN 8420539082.

Others resources: