

## 330344 - GMI - Mining Geophysics

Coordinating unit: 330 - EPSEM - Manresa School of Engineering  
 Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering  
 Academic year: 2016  
 Degree: MASTER'S DEGREE IN MINING ENGINEERING (Syllabus 2013). (Teaching unit Optional)  
 ECTS credits: 5 Teaching languages: Catalan

### Teaching staff

Coordinator: Parcerisa Duocastella, David

### Degree competences to which the subject contributes

Specific:

1. (ENG) Coneixement adequat d'aspectes científics i tecnològics de mecànica de fluids, mecànica de mitjans continus, càlcul d'estructures, geotècnia, carboquímica i petroquímica.
2. (ENG) Coneixement adequat de modelització i avaluació de recursos geològics, incloses les aigües subterrànies, minerals i termals.

### Learning objectives of the subject

### Study load

Total learning time: 125h	Hours large group:	0h	0.00%
	Hours medium group:	45h	36.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	80h	64.00%

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### Content

<p>title english</p>	<p>Learning time: 5h Practical classes: 2h Self study : 3h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 26h Practical classes: 6h Laboratory classes: 5h Self study : 15h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 19h Practical classes: 4h Laboratory classes: 3h Self study : 12h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 29h Practical classes: 6h Laboratory classes: 3h Self study : 20h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 22h Practical classes: 4h Laboratory classes: 3h Self study : 15h</p>
<p>Description: content english</p>	

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title english	Learning time: 24h Practical classes: 6h Laboratory classes: 3h Self study : 15h
Description: content english	

### Planning of activities

name english	Hours: 11h Laboratory classes: 5h Self study: 6h
name english	Hours: 10h Self study: 4h Laboratory classes: 6h
name english	Hours: 6h Laboratory classes: 1h Self study: 5h
name english	Hours: 5h Laboratory classes: 2h Self study: 3h
name english	Hours: 15h Practical classes: 3h Self study: 12h

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### Bibliography

#### Basic:

Orche García, Enrique. Manual de geología e investigación de yacimientos minerales. Madrid: U.D. Proyectos, 2001. ISBN 8493129275.

Milsom, J. Field geophysics [on line]. 3rd ed. Chichester: John Wiley & Sons, 2008 [Consultation: 16/06/2017]. Available on: <<http://www.uvm.edu/~lewebb/CCLI/Manuals/Milsom%20Field%20Geophysics%20Guide.pdf>>. ISBN 9780470843475.

#### Complementary:

Butler, Dwain K., ed. Near-surface geophysics. Tulsa, Oklahoma: Society of Exploration Geophysicists, 2005. ISBN 093183046X.

Reynolds, John M. An introduction to applied and environmental geophysics. Chichester: Wiley & Sons, 2007. ISBN 0471955558.

Sharma, P. Vallabh. Environmental and engineering geophysics. Cambridge: Cambridge University Press, 2002. ISBN 0521572401.

#### Others resources: