

330426 - CAV - Mine Ventilation and Working Conditions

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, Spanish, English

Teaching staff

Coordinator: Sanmiquel Pera, Lluís
 Others: Bascompta Massanès, Marc

Degree competences to which the subject contributes

Specific:

- (ENG) Coneixement de la ventilació principal i secundària que es pot trobar en una mina subterrània.

Transversal:

- EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
- TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.
- SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.
- THIRD LANGUAGE. Learning a third language, preferably English, to a degree of oral and written fluency that fits in with the future needs of the graduates of each course.

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

<p>title english</p>	<p>Learning time: 12h Theory classes: 4h Self study : 8h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 12h Theory classes: 4h Self study : 8h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 8h Theory classes: 3h Laboratory classes: 1h Self study : 4h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 32h Theory classes: 2h Laboratory classes: 10h Self study : 20h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 18h Theory classes: 5h Laboratory classes: 3h Self study : 10h</p>
<p>Description: content english</p>	

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title english	Learning time: 17h Theory classes: 5h Laboratory classes: 2h Self study : 10h
Description: content english	

title english	Learning time: 14h Theory classes: 4h Laboratory classes: 2h Self study : 8h
Description: content english	

Planning of activities

name english	Hours: 20h Laboratory classes: 20h
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name english	Hours: 10h Theory classes: 2h Self study: 8h
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Bibliography

Basic:

McPherson, Malcolm J. Subsurface ventilation and environmental engineering. London: Chapman & Hall, 1993. ISBN 0412353008.

Luque Cabal, Vicente. Manual de ventilación de minas. Madrid: Pedeca, 1988. ISBN 8440431929.

De la Vergne, Jack. Hard rock miner's handbook [on line]. 5th ed. Edmonton: Stantec Consulting, 2008 [Consultation: 17/11/2016]. Available on:

<http://www.stantec.com/content/dam/stantec/files/PDFAssets/2014/Hard%20Rock%20Miner%27s%20Handbook%20Edition%205_3.pdf>. ISBN 0968700616.

Complementary:

Hartman, Howard L., ed. SME mining engineering handbook. 2nd ed. Littleton, Col.: Society for Mining, Metallurgy and Exploration, 1992. ISBN 0873351002.

Hartman, Howard L. Mine ventilation and air conditioning. 2nd ed., [reprint with corrections]. Malabar, Florida: Krieger, 1991. ISBN 0894644718.