

330418 - MDT - Ground Modelling

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: Sanmiquel Pera, Lluís

Degree competences to which the subject contributes

Specific:

- (ENG) Coneixements d'un software que permeti fer operacions de modelització d'un terreny, d'un software de restitució d'imatges generades per drons, així com conceptes bàsics d'anàlisi territorial aplicats en la modelització d'un terreny a través de l'ArcGis 3DAnalyst Tools.

Transversal:

- SUSTAINABILITY AND SOCIAL COMMITMENT - Level 2. Applying sustainability criteria and professional codes of conduct in the design and assessment of technological solutions.
- TEAMWORK - Level 2. Contributing to the consolidation of a team by planning targets and working efficiently to favor communication, task assignment and cohesion.
- 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.

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: 16h Laboratory classes: 8h Self study : 8h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 26h Laboratory classes: 10h Self study : 16h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 18h Laboratory classes: 8h Self study : 10h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 34h Laboratory classes: 10h Self study : 24h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 26h Laboratory classes: 10h Self study : 16h</p>
<p>Description: content english</p>	

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title english	Learning time: 30h Laboratory classes: 14h Self study : 16h
Description: content english	

Planning of activities

name english	Hours: 18h Laboratory classes: 4h Self study: 14h
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name english	Hours: 10h Laboratory classes: 2h Self study: 8h
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Bibliography

Basic:

- Estruch Serra, Miquel. Topografía aplicada a obras de ingeniería. Barcelona: EPSEM, 1992.
- Martín Morejón, Luís. Topografía y replanteos. Vol. 1. Barcelona: Luís Martín Morejón, 1987. ISBN 8440405367.
- Martín Morejón, Luís. Topografía y replanteos. Vol. 2. Barcelona: Luís Martín Morejón, 1988. ISBN 8440405367.
- Sanmiquel Pera, Lluís. Métodos planimétricos: radiación, itinerario, intersección [on line]. Manresa: EPSEM, 2003 [Consultation: 21/11/2016]. Available on: <<http://hdl.handle.net/2117/11639>>. ISBN 9788469411254.
- Sanmiquel Pera, Lluís. Gestión del territorio y espacios subterráneos. Manresa: EPSEM, 2015.
- Santos Preciado, José Miguel. Sistemas de información geográfica. Madrid: Universidad Nacional de Educación a Distancia, 2004. ISBN 8436220064.

Complementary:

- Estruch Serra, Miquel; Tapia Gómez, Anna. Topografía subterránea para minería y obras [on line]. Barcelona: Edicions UPC, 2003 [Consultation: 21/11/2016]. Available on: <<http://ebooks.upc.edu/product/topografa-subterrnea-para-minera-y-obras>>. ISBN 8483016729.
- García-Tejero, Dominguez Francisco. Topografía general y aplicada. 13ª ed. Madrid: Mundi-Prensa, 1998. ISBN 8471147211.