

330409 - TCG - General Surveying and 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: Sanmiquel Pera, Lluís
Others: Bascompta Massanès, Marc

Degree competences to which the subject contributes

Specific:

1. (ENG) Coneixement de topografia, fotogrametria i cartografia.

Transversal:

2. SUSTAINABILITY AND SOCIAL COMMITMENT - Level 1. Analyzing the world's situation critically and systemically, while taking an interdisciplinary approach to sustainability and adhering to the principles of sustainable human development. Recognizing the social and environmental implications of a particular professional activity.
3. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.
4. 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.
5. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.
6. ENTREPRENEURSHIP AND INNOVATION - Level 1. Showing enterprise, acquiring basic knowledge about organizations and becoming familiar with the tools and techniques for generating ideas and managing organizations that make it possible to solve known problems and create opportunities.

Learning objectives of the subject



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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

title english	Learning time: 25h Theory classes: 5h Laboratory classes: 8h Self study : 12h
Description: content english	
title english	Learning time: 46h Theory classes: 10h Laboratory classes: 6h Self study : 30h
Description: content english	
title english	Learning time: 42h Theory classes: 6h Laboratory classes: 6h Self study : 30h
Description: content english	
title english	Learning time: 23h Theory classes: 3h Laboratory classes: 8h Self study : 12h
Description: content english	



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title english	Learning time: 14h Theory classes: 6h Laboratory classes: 2h Self study : 6h
Description: content english	

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Planning of activities

name english	Hours: 5h Self study: 1h Laboratory classes: 4h
name english	Hours: 5h Self study: 1h Laboratory classes: 4h
name english	Hours: 8h Laboratory classes: 4h Self study: 4h
name english	Hours: 7h Self study: 3h Laboratory classes: 4h
name english	Hours: 6h Self study: 2h Laboratory classes: 4h
name english	Hours: 16h Self study: 6h Laboratory classes: 10h
name english	Hours: 8h Practical classes: 2h Self study: 6h
name english	Hours: 8h Practical classes: 2h Self study: 6h

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Bibliography

Basic:

Domínguez García-Tejero, Francisco. Topografía general y aplicada. 13^a ed. Madrid: Mundi-Prensa, 1998. ISBN 8471147211.

Martín Morejón, Luis. Topografía y replanteos. Vol. 1. Barcelona: Luis Martín Morejón, 1987. ISBN 8440405367.

Martín Morejón, Luis. Topografía y replanteos. Vol. 2. Barcelona: Luis Martín Morejón, 1988. ISBN 8440417756.

Maza Vázquez, Francisco. Introducción a la topografía y a la cartografía aplicada. [Alcalá de Henares]: Universidad de Alcalá, Servicio de Publicaciones, DL 2008. ISBN 9788481387773.

Nuñez-García del Pozo, Alfonso; Vallbuena Puran, José Luís; Velasco Gómez, Jesús. GPS: la nueva era de la topografía. Madrid: Ediciones de las Ciencias Sociales, 1992. ISBN 8487510310.

Sanmiquel Pera, Lluís. Métodos planimétricos: radiación, itinerario, intersección [on line]. Manresa: EPSEM, 2003 [Consultation: 23/11/2016]. Available on: <<http://hdl.handle.net/2117/11639>>. ISBN 9788469411254.

Complementary:

Méndez López, Celestino. Sistemas de planos acotados. San Sebastián: Donostiarra, DL 1988. ISBN 8470631586.

Chueca Pazos, Manuel. Topografía. Madrid: Dossat, DL 1982. ISBN 8423705897.

Ojeda Ruiz, José Luís. Métodos topográficos y oficina técnica. 2^a ed. Madrid: José Luis Ojeda Ruiz, 1984. ISBN 8439809182.