

Course guide

330409 - TCG - General Surveying and Cartography

Last modified: 04/05/2023

Unit in charge: Manresa School of Engineering
Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering.

Degree: BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Compulsory subject).
BACHELOR'S DEGREE IN MINERAL RESOURCE ENGINEERING AND MINERAL RECYCLING (Syllabus 2021). (Compulsory subject).

Academic year: 2023 **ECTS Credits:** 6.0 **Languages:** Catalan

LECTURER

Coordinating lecturer: 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.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

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STUDY LOAD

Type	Hours	Percentage
Hours medium group	60,0	40.00
Self study	90,0	60.00

Total learning time: 150 h

CONTENTS

title english

Description:

content english

Full-or-part-time: 25h

Theory classes: 5h

Laboratory classes: 8h

Self study : 12h

title english

Description:

content english

Full-or-part-time: 46h

Theory classes: 10h

Laboratory classes: 6h

Self study : 30h

title english

Description:

content english

Full-or-part-time: 42h

Theory classes: 6h

Laboratory classes: 6h

Self study : 30h

title english

Description:

content english

Full-or-part-time: 23h

Theory classes: 3h

Laboratory classes: 8h

Self study : 12h

title english

Description:

content english

Full-or-part-time: 14h

Theory classes: 6h

Laboratory classes: 2h

Self study : 6h



ACTIVITIES

name english

Full-or-part-time: 5h

Laboratory classes: 4h

Self study: 1h

name english

Full-or-part-time: 5h

Laboratory classes: 4h

Self study: 1h

name english

Full-or-part-time: 8h

Laboratory classes: 4h

Self study: 4h

name english

Full-or-part-time: 7h

Laboratory classes: 4h

Self study: 3h

name english

Full-or-part-time: 6h

Laboratory classes: 4h

Self study: 2h

name english

Full-or-part-time: 16h

Laboratory classes: 10h

Self study: 6h

name english

Full-or-part-time: 8h

Practical classes: 2h

Self study: 6h



name english

Full-or-part-time: 8h

Practical classes: 2h

Self study: 6h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Martín Morejón, Luis. Topografía y replanteos. Vol. 1. Barcelona: Luís Martín Morejón, 1987. ISBN 8440405367.
- Sanmiquel Pera, Lluís. Métodos planimétricos: radiación, itinerario, intersección [on line]. Manresa: EPSEM, 2003 [Consultation: 13/11/2020]. Available on: <http://hdl.handle.net/2117/11639>. ISBN 9788469411254.
- Domínguez García-Tejero, Francisco. Topografía general y aplicada. 13ª ed. Madrid: Mundi-Prensa, 1998. ISBN 8471147211.
- 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.
- Maza Vázquez, Francisco. Introducción a la topografía y a la cartografía aplicada [on line]. [Alcalá de Henares]: Universidad de Alcalá, Servicio de Publicaciones, DL 2008 [Consultation: 23/06/2021]. Available on: <https://elibro.net/ereader/upcatalunya/53475>. ISBN 9788481387773.
- Martín Morejón, Luís. Topografía y replanteos. Vol. 2. Barcelona: Luis Martín Morejón, 1988. ISBN 8440417756.

Complementary:

- Chueca Pazos, Manuel. Topografía. Madrid: Dossat, DL 1982. ISBN 8423705897.
- Ojeda Ruiz, José Luís. Métodos topográficos y oficina técnica. 2ª ed. Madrid: José Luis Ojeda Ruiz, 1984. ISBN 8439809182.
- Méndez López, Celestino. Sistemas de planos acotados. San Sebastián: Donostiarra, DL 1988. ISBN 8470631586.