Course guide
330407 - EG - Graphic Expression

Last modified: 04/05/2023

Unit in charge: Manresa School of Engineering
Teaching unit: 717 - DEGD - Department of Engineering Graphics and Design.

Degree: BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Compulsory subject).

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

LECTURER

Coordinating lecturer: Lopez Martinez, Joan Antoni

Others: Villar Ribera, Albert

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
1. Capacity of spatial vision and connection of the techniques of graphic representation, both by traditional methods of metric geometry and descriptive geometry, with mitigation of design applications and assistit per computer.

Transversal:
2. 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.
3. 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.
4. SELF-DIRECTED LEARNING - Level 1. Completing set tasks within established deadlines. Working with recommended information sources according to the guidelines set by lecturers.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

.

STUDY LOAD

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

Total learning time: 150 h

CONTENTS

title english

Description:
content english

Full-or-part-time: 10h
Theory classes: 2h
Laboratory classes: 2h
Self study : 6h

title english

Description:
content english

Full-or-part-time: 20h
Theory classes: 4h
Laboratory classes: 4h
Self study : 12h

title english

Description:
content english

Full-or-part-time: 60h
Theory classes: 12h
Laboratory classes: 12h
Self study : 36h

title english

Description:
content english

Full-or-part-time: 60h
Theory classes: 12h
Laboratory classes: 12h
Self study : 36h

GRADING SYSTEM

BIBLIOGRAPHY

Basic:
- Félez, Jesús; Martínez, María Luisa. Ingeniería gráfica y diseño. Madrid: Síntesis, DL 2008. ISBN 9788497564991.
- Hernández Abad, F., et al. Ingeniería gráfica: introducción a la normalización. 2ª ed. Terrassa: Departamento de Expresión Gráfica en la Ingeniería, 2006. ISBN 8460946592.
- Bertoline, G. R., et al. Engineering graphics communication. Chicago: Irwin, cop. 1995. ISBN 0256114188.
- Hernández Abad, F.; Hernández Abad, V.; Ochoa Vives, M. Lugares geométricos: su aplicación a tangencias. Barcelona: Edicions UPC, 1993. ISBN 8476532814.
- Comasòlivas Font, R. Sistema diédrico [on line]. Barcelona: Edicions UPC, 1997 [Consultation: 19/11/2020]. Available on: http://hdl.handle.net/2099.3/36272. ISBN 8489636141.
- Gentil Balgrich, J. M. Método y aplicación de representación acotada y del terreno. Madrid: Bellisco, 1998. ISBN 8493000205.
- Giesecke, Frederick E. Modern graphics communication. 4th ed. Upper Saddle River, NJ: Prentice Hall, cop. 2010. ISBN 9780135151037.

Complementary:
- González García, V.; López Poza, R.; Nieto Oñate, M. Sistemas de representación. Valladolid: Texgraf, DL 1977-. ISBN 8440023316.
- Ramos Barbero, B.; García Maté, E. Dibujo técnico [on line]. 3ª ed. Madrid: AENOR, 2016 [Consultation: 08/06/2022]. Available on: https://www-ingebook-com.recursos.biblioteca.upc.edu/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=8888. ISBN 8481439185.
- Méndez López, M. Prácticas de sistema de planos acotados. San Sebastián: Donostiarra, DL 1988. ISBN 8470631586.