

330407 - EG - Graphic Expression

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
 Teaching unit: 717 - EGE - Department of Engineering Presentation
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)
 ECTS credits: 6 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Serra Santasusagna, Elisabeth
 Others: Lopez Martinez, Joan Antoni

Degree competences to which the subject contributes

Specific:

- (ENG) Capacitat de visió espacial i coneixement de les tècniques de representació gràfica, tant per mètodes tradicionals de geometria mètrica i geometria descriptiva, com mitjançant les aplicacions de disseny assistit per ordinador.

Transversal:

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

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

title english	Learning time: 10h Theory classes: 2h Laboratory classes: 2h Self study : 6h
Description: content english	
title english	Learning time: 20h Theory classes: 4h Laboratory classes: 4h Self study : 12h
Description: content english	
title english	Learning time: 60h Theory classes: 12h Laboratory classes: 12h Self study : 36h
Description: content english	
title english	Learning time: 60h Theory classes: 12h Laboratory classes: 12h Self study : 36h
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Bibliography

Basic:

Bertoline, G. R., et al. Engineering graphics communication. Chicago: Irwin, cop. 1995. ISBN 0256114188.

Gentil Balgrich, J. M. Método y aplicación de representación acotada y del terreno. Madrid: Bellisco, 1998. ISBN 8493000205.

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: 11/01/2017]. Available on: <<http://hdl.handle.net/2099.3/36272>>. ISBN 8489636141.

Hernández Abad, F., et al. Ingeniería gráfica: introducción a la normalización. 2ª ed. Terrassa: Departamento de Expresión Gráfica en la Ingeniería, 2006. ISBN 8460946592.

Giesecke, Frederick E. Modern graphics communication. 4th ed. Upper Saddle River, NJ: Prentice Hall, cop. 2010. ISBN 9780135151037.

Félez, Jesús; Martínez, María Luisa. Ingeniería gráfica y diseño. Madrid: Síntesis, DL 2008. ISBN 9788497564991.

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. 3ª ed. Madrid: AENOR, 2016. ISBN 9788481434743.

Méndez López, M. Prácticas de sistema de planos acotados. San Sebastián: Donostiarra, DL 1988. ISBN 8470631586.