

330058 - 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 ENERGY AND MINING RESOURCE ENGINEERING (Syllabus 2012). (Teaching unit Compulsory) BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory) BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory) BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory) BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory) BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2016). (Teaching unit Compulsory) BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2016). (Teaching unit Compulsory) BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2016). (Teaching unit Compulsory) BACHELOR'S DEGREE IN ICT SYSTEMS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits:	6
Teaching languages:	Catalan, Spanish

Teaching staff

Coordinator:	Carbonell Mañe, Montserrat
Others:	Bastardas Bonachi, Francesc Xavier Pregonas Sarrà, Jaume Villar Ribera, Alberto

Degree competences to which the subject contributes

Specific:

1. (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:

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.

Learning objectives of the subject

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Study load

Total learning time: 150h	Hours large group:	15h	10.00%
	Hours medium group:	0h	0.00%
	Hours small group:	45h	30.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

Content

title english	Learning time: 9h Laboratory classes: 3h Self study : 6h
Description: content english	
title english	Learning time: 20h Theory classes: 2h Laboratory classes: 3h Self study : 15h
Description: content english	
title english	Learning time: 64h Theory classes: 13h Laboratory classes: 6h Self study : 45h
Description: content english	
title english	Learning time: 57h Laboratory classes: 33h Self study : 24h
Description: content english	

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Bibliography

Basic:

Hernández Abad, Francisco; Hernández Abad, Vicente; Ochoa Vives, Manuel. Lugares geométricos: su aplicación a tangencias. Barcelona: Edicions UPC, 1993. ISBN 8476532814.

Comasòlivas Font, Ramon. Sistema diédrico [on line]. Barcelona: Edicions UPC, 1997 [Consultation: 05/03/2018]. Available on: <<http://hdl.handle.net/2099.3/36272>>. ISBN 848963141.

Hernández Abad, Francisco, i altres. Ingeniería gráfica: introducción a la normalización. 2ª ed. Terrassa: ETSEIAT. Departamento de Expresión Gráfica en la Ingeniería, 2006.

Complementary:

González García, Victorino. Sistemas de representación. Vol. 1, Sistema diédrico. Valladolid: Texgraf, 1977. ISBN 8440023316.

Ramos Barbero, Basilio; García Maté, Esteban. Dibujo técnico. 3ª ed. Madrid: AENOR, 2016. ISBN 8481439185.