Course guides
330058 - EG - Graphic Expression

Last modified: 05/05/2020

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

Degree: BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Compulsory subject).
BACHELOR'S DEGREE IN ICT SYSTEMS ENGINEERING (Syllabus 2010). (Optional subject).
BACHELOR'S DEGREE IN ENERGY AND MINING RESOURCE ENGINEERING (Syllabus 2012). (Compulsory subject).
BACHELOR'S DEGREE IN INDUSTRIAL ELECTRONICS AND AUTOMATIC CONTROL ENGINEERING (Syllabus 2016). (Compulsory subject).
BACHELOR'S DEGREE IN MECHANICAL ENGINEERING (Syllabus 2016). (Compulsory subject).
BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2016). (Compulsory subject).

Academic year: 2020 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

Coordinating lecturer: 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 espaial 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.

TEACHING METHODOLOGY

LEARNING OBJECTIVES OF THE SUBJECT

.

STUDY LOAD

Type	Hours	Percentage
Self study	90,0	60.00
Hours large group	15,0	10.00
Hours small group	45,0	30.00

Total learning time: 150 h

CONTENTS

title english

Description:
content english

Full-or-part-time: 9h
Laboratory classes: 3h
Self study : 6h

title english

Description:
content english

Full-or-part-time: 20h
Theory classes: 2h
Laboratory classes: 3h
Self study : 15h

title english

Description:
content english

Full-or-part-time: 64h
Theory classes: 13h
Laboratory classes: 6h
Self study : 45h

title english

Description:
content english

Full-or-part-time: 57h
Laboratory classes: 33h
Self study : 24h

GRADING SYSTEM

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 [on line]. 3ª ed. Madrid: AENOR, 2016 [Consultation: 29/07/2020]. Available on: http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=8888. ISBN 8481439185.