

## 340022 - QUIM-N1013 - Chemistry

Coordinating unit:	340 - EPSEVG - Vilanova i la Geltrú School of Engineering
Teaching unit:	713 - EQ - Department of Chemical Engineering
Academic year:	2019
Degree:	BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2009). (Teaching unit Compulsory) BACHELOR'S DEGREE IN ELECTRICAL 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 MECHANICAL ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
ECTS credits:	6
Teaching languages:	Catalan

### Teaching staff

Coordinator:	NATIVITAT SALVADÓ CABRÉ
Others:	SALVADOR BUTÍ PAPIOL AGUSTÍ FORTUNY SANROMÀ JOAQUIM OLIVÉ DURAN EMILIA PAPIOL VERA LURDES ROSET CALZADA MONTSERRAT RUIZ PLANAS NATIVITAT SALVADÓ CABRÉ

### Degree competences to which the subject contributes

#### Specific:

5. CE4. Ability to understand and apply principles of basic knowledge of general chemistry, organic and inorganic chemistry and its applications in engineering.

#### Transversal:

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

### Teaching methodology

### Learning objectives of the subject



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### Study load

Total learning time: 150h	Hours large group:	30h	20.00%
	Hours medium group:	0h	0.00%
	Hours small group:	30h	20.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

### Content

title english	Learning time: 60h Theory classes: 12h Laboratory classes: 12h Self study : 36h
Description: content english	
title english	Learning time: 90h Theory classes: 18h Laboratory classes: 18h Self study : 54h
Description: content english	

### Qualification system

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### Bibliography

#### Basic:

Atkins, P. W. Principios de química: los caminos del descubrimiento. 5a ed. Buenos Aires [etc.]: Médica Panamericana, 2012. ISBN 9789500602822.

Chang, Raymond; Kenneth A. Goldsby. Química. 11a ed. México: McGraw-Hill, 2013. ISBN 9786071509284.

#### Complementary:

Chang, Raymond. Fundamentos de Química. Madrid: McGraw-Hill, 2011. ISBN 00735110909.

Revista Educació Química [on line]. Barcelona: IEC, [Consultation: 18/09/2014]. Available on:  
<[http://publicacions.iec.cat/PopulaFitxa.do?moduleName=revistes\\_cientifiques&subModuleName=&idColleccio=6090](http://publicacions.iec.cat/PopulaFitxa.do?moduleName=revistes_cientifiques&subModuleName=&idColleccio=6090)>.