

# Course guide

## 820531 - QOQ - Organic Chemistry

Last modified: 02/02/2024

**Unit in charge:** Barcelona East School of Engineering  
**Teaching unit:** 713 - EQ - Department of Chemical Engineering.

**Degree:** BACHELOR'S DEGREE IN CHEMICAL ENGINEERING (Syllabus 2009). (Compulsory subject).

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

### LECTURER

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**Coordinating lecturer:** JOAN TORRAS COSTA

**Others:** Primer quadrimestre:  
ELAINE APARECIDA ARMELIN DIGGROC - Grup: M1  
JOSE IGNACIO IRIBARREN LACO - Grup: M1

Segon quadrimestre:  
JUAN TORRAS COSTA - Grup: M1  
DAVID ZANUY GOMARA - Grup: M1

### PRIOR SKILLS

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It is necessary for the student to have prior knowledge of general chemistry (atomic structure, chemical bonding, thermodynamics and kinetics). Also, it is necessary for him to have basic knowledge of the structure, formulation and nomenclature of organic molecules.

### REQUIREMENTS

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QUÍMICA - Prerequisit

### DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

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**Specific:**  
CEQUI-19. Understand mass and energy balances, biotechnology, mass transfer, separation operations, chemical reaction engineering, the design of reactors, and the recovery and processing of raw materials and energy resources.

**Transversal:**  
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.

### TEACHING METHODOLOGY

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### LEARNING OBJECTIVES OF THE SUBJECT

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No disponible



## STUDY LOAD

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

Total learning time: 150 h

## CONTENTS

### No disponible

**Description:**

No disponible

**Specific objectives:**

No disponible

**Related activities:**

No disponible

**Full-or-part-time:** 13h

Theory classes: 6h

Self study : 7h

### No disponible

**Description:**

No disponible

**Specific objectives:**

No disponible

**Related activities:**

No disponible

**Full-or-part-time:** 19h

Theory classes: 8h

Self study : 11h

### No disponible

**Description:**

No disponible

**Specific objectives:**

No disponible

**Related activities:**

No disponible

**Full-or-part-time:** 19h

Theory classes: 7h

Self study : 12h



**No disponible**

**Description:**

No disponible

**Specific objectives:**

No disponible

**Related activities:**

No disponible

**Full-or-part-time:** 16h

Theory classes: 6h

Self study : 10h

**No disponible**

**Description:**

No disponible

**Specific objectives:**

No disponible

**Related activities:**

No disponible

**Full-or-part-time:** 16h

Theory classes: 6h

Self study : 10h

**No disponible**

**Description:**

No disponible

**Specific objectives:**

No disponible

**Related activities:**

No disponible

**Full-or-part-time:** 28h

Theory classes: 10h

Self study : 18h



#### No disponible

**Description:**

No disponible

**Specific objectives:**

No disponible

**Related activities:**

No disponible

**Full-or-part-time:** 14h

Theory classes: 5h

Self study : 9h

#### No disponible

**Description:**

No disponible

**Specific objectives:**

No disponible.

**Related activities:**

No disponible

**Full-or-part-time:** 8h

Theory classes: 4h

Self study : 4h

## GRADING SYSTEM

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## BIBLIOGRAPHY

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**Basic:**

- Gorchs, R.; Galán, A. Química Orgànica : estudi, reactivitat i aplicació dels principals compostos orgànics [on line]. Barcelona: Edicions UPC, 2003 [Consultation: 27/06/2016]. Available on: <http://hdl.handle.net/2099.3/36492>. ISBN 8483017393.
- Wade, L. G. Química orgànica. 7ª ed. México: Addison-Wesley, 2012. ISBN 9786073207904.
- Hart, Harold... [et al]. Química orgànica. 12ª ed. Madrid [etc.]: McGraw-Hill, cop. 2007. ISBN 9788448156572.
- Carey, Francis A. Química orgànica [on line]. 9ª ed. México [etc.]: McGraw-Hill, 2014 [Consultation: 29/04/2020]. Available on: [http://www.ingebook.com/ib/NPcd/IB\\_BooksVis?cod\\_primaria=1000187&codigo\\_libro=5641](http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=5641). ISBN 9781456239077.
- Ege, Seyhan N. Química orgànica : estructura y reactividad. Barcelona [etc.]: Reverté, 1997. ISBN 8429170650.

## RESOURCES

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**Hyperlink:**

- Apunts d'Atenea

**Other resources:**

- Course notes
- Problems notebook
- Solved Problems Notebook