

Course guide

820531 - QOQ - Organic Chemistry

Last modified: 21/06/2024

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: 2024 **ECTS Credits:** 6.0 **Languages:** Catalan, Spanish

LECTURER

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

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

QUÍMICA - Prerequisit

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

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

LEARNING OBJECTIVES OF THE SUBJECT

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: 17h 35m

Theory classes: 8h

Self study : 9h 35m

No disponible

Description:

No disponible

Specific objectives:

No disponible

Related activities:

No disponible

Full-or-part-time: 23h 40m

Theory classes: 10h

Self study : 13h 40m

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: 21h 40m

Theory classes: 8h

Self study : 13h 40m

No disponible

Description:

No disponible

Specific objectives:

No disponible

Related activities:

No disponible

Full-or-part-time: 20h 35m

Theory classes: 8h

Self study : 12h 35m

No disponible

Description:

No disponible

Specific objectives:

No disponible

Related activities:

No disponible

Full-or-part-time: 30h 21m

Theory classes: 11h 01m

Self study : 19h 20m



No disponible

Description:

No disponible

Specific objectives:

No disponible

Related activities:

No disponible

Full-or-part-time: 21h 20m

Theory classes: 8h

Self study : 13h 20m

GRADING SYSTEM

BIBLIOGRAPHY

Basic:

- Wade, L. G. Química orgánica. 7ª ed. México: Addison-Wesley, 2012. ISBN 9786073207904.
- Hart, Harold... [et al]. Química orgánica. 12ª ed. Madrid [etc.]: McGraw-Hill, cop. 2007. ISBN 9788448156572.
- Carey, Francis A. Química orgánica [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. ISBN 9781456239077.
- Ege, Seyhan N. Química orgánica : estructura y reactividad. Barcelona [etc.]: Reverté, 1997. ISBN 8429170650.
- 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.

RESOURCES

Hyperlink:

- Apunts d'Atenea

Other resources:

- Course notes
- Problems notebook
- Solved Problems Notebook