



## Course guides

# 820526 - EEQ2Q - Experimentation in Chemical Engineering II

Last modified: 19/06/2020

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

## LECTURER

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**Coordinating lecturer:** VICENÇ MARTI GREGORIO

**Others:**

Primer quadrimestre:

NÚRIA BORRÀS CRISTÒFOL - M11, M12, M13, M14

VICENÇ MARTI GREGORIO - M11, M12, M13, M14

MARGARITA SÁNCHEZ JIMÉNEZ - M11, M12, M13, M14

NURIA SAPERAS PLANA - M11, M12, M13, M14

DAVID ZANUY GOMARA - M11, M12, M13, M14

Segon quadrimestre:

NÚRIA BORRÀS CRISTÒFOL - M11

VICENÇ MARTI GREGORIO - M11

MARGARITA SÁNCHEZ JIMÉNEZ - M11

NURIA SAPERAS PLANA - M11

DAVID ZANUY GOMARA - M11

## REQUIREMENTS

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EXPERIMENTACIÓ EN ENGINYERIA QUÍMICA I - Prerequisit

## DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

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**Specific:**

1. Design and manage applied experimentation procedures, particularly for determining thermodynamic and transport properties, and the modelling of phenomena and systems in the field of chemical engineering, such as fluid flow systems, heat and mass transfer operations and the kinetics of chemical reactions and reactors.

**Transversal:**

2. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.

## TEACHING METHODOLOGY

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## LEARNING OBJECTIVES OF THE SUBJECT

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## STUDY LOAD

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

Total learning time: 150 h

## CONTENTS

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### Description:

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**Full-or-part-time:** 10h

Theory classes: 4h

Self study : 6h

### Experimental sessions

### Description:

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### Related activities:

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**Full-or-part-time:** 100h

Laboratory classes: 40h

Self study : 60h

### Design and evaluation of an experimental project

### Description:

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### Related activities:

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**Full-or-part-time:** 40h

Laboratory classes: 8h

Guided activities: 8h

Self study : 24h



## ACTIVITIES

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**Description:**

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**Material:**

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**Delivery:**

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**Full-or-part-time:** 100h

Laboratory classes: 40h

Self study: 60h

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**Description:**

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**Full-or-part-time:** 40h

Theory classes: 8h

Guided activities: 8h

Self study: 24h

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**Description:**

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**Full-or-part-time:** 2h

Theory classes: 2h

## GRADING SYSTEM

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## BIBLIOGRAPHY

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**Basic:**

- Perry, Robert H.; Green, Don W.; Maloney, James O. Manual del ingeniero químico [on line]. Madrid: McGraw Hill, 2001 [ Consultation : 30/04/2020 ]. Available on : [http://www.ingebook.com/ib/NPcd/IB\\_BooksVis?cod\\_primaria=1000187&codigo\\_libro=6572](http://www.ingebook.com/ib/NPcd/IB_BooksVis?cod_primaria=1000187&codigo_libro=6572). ISBN 9788448612788.
- McCabe, Warren L. [et al.]. Operaciones unitarias en ingeniería química. 7ª ed. Madrid [etc.]: McGraw-Hill, cop. 2007. ISBN 9701061748.
- Coulson, J. M. [et al.]. Ingeniería química, vol. 2. Barcelona [etc.]: Reverté, 1979-1984. ISBN 8429171347.
- Levenspiel, Octave. Ingeniería de las reacciones químicas. 3a ed. México: Limusa Wiley, 2004. ISBN 9681858603.