

# Course guide 240EQ323 - Pharmaceutical Biotechnology

Last modified: 27/05/2024

Unit in charge: Barcelona East School of Engineering

**Teaching unit:** 713 - EQ - Department of Chemical Engineering.

Degree: Academic year: 2024 ECTS Credits: 4.5

Languages: Spanish

#### **LECTURER**

**Coordinating lecturer:** Juan Jesus Perez Gonzalez

**Others:** Primer quadrimestre:

JUAN JESUS PEREZ GONZALEZ - T10

## **DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES**

#### Generical:

1. Possess independent learning skills to maintain and enhance the competencies of chemical engineering to enable the continued development of their profession.

#### **Transversal:**

- 2. SUSTAINABILITY AND SOCIAL COMMITMENT: Being aware of and understanding the complexity of the economic and social phenomena typical of a welfare society, and being able to relate social welfare to globalisation and sustainability and to use technique, technology, economics and sustainability in a balanced and compatible manner.
- 3. EFFECTIVE USE OF INFORMATION RESOURCES: Managing the acquisition, structuring, analysis and display of data and information in the chosen area of specialisation and critically assessing the results obtained.

#### **TEACHING METHODOLOGY**

#### **LEARNING OBJECTIVES OF THE SUBJECT**

## **STUDY LOAD**

Туре	Hours	Percentage
Hours small group	40,5	36.00
Self study	72,0	64.00

Total learning time:  $112.5\ h$ 

## **CONTENTS**

## (ENG) 1. LA CIÈNCIA TERAPÈUTICA I LA INDÚSTRIA FARMACÈUTICA

**Full-or-part-time:** 10h Theory classes: 4h Self study : 6h

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#### (ENG) 2. FARMACOCINETICA I FARMACODINAMICA

**Full-or-part-time:** 15h Theory classes: 6h Self study: 9h

#### (ENG) 3. FARMACS I BIOFARMACS

Full-or-part-time: 50h Theory classes: 20h Self study: 30h

#### (ENG) 4. DISSENY DE FARMACS

Full-or-part-time: 10h Theory classes: 4h Self study: 6h

## (ENG) 5. BIOPROCÉS FARMACÈUTIC

Full-or-part-time: 27h Theory classes: 11h Self study: 16h

#### **ACTIVITIES**

#### (ENG) 1. PRODUCCIÓ D'UN BIOFÀRMAC

**Full-or-part-time:** 20h Self study: 20h

#### **GRADING SYSTEM**

#### **BIBLIOGRAPHY**

#### Basic:

- Brunton, Laurence L; Chabner, Bruce; Knollmann, Bjorn C; Goodman, Louis S; Gilman, Alfred Goodman. Goodman & Gilman's the pharmacological basis of therapeutics. 12th ed. New York: McGraw-Hill Medical, 2011. ISBN 9780071624428.
- Walsh, Gary. Pharmaceutical biotechnology: concepts and applications. Chichester [etc.]: John Wiley & Sons, cop. 2007. ISBN 9780470012451.
- Shuler, Michael L; Kargi, Fikret. Bioprocess engineering: basic concepts. 2nd ed. Harlow, Essex: Pearson, cop. 2014. ISBN 9781292025995.

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