

Course guide

240EQ331 - 240EQ331 - Polymer Technology II

Last modified: 26/06/2025

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

Degree: **Academic year:** 2025 **ECTS Credits:** 4.5
Languages: Catalan, Spanish

LECTURER

Coordinating lecturer: ELAINE APARECIDA ARMELIN DIGGROC
Others: Primer quadrimestre:
ELAINE APARECIDA ARMELIN DIGGROC - T10

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Generical:

1. Ability to apply the scientific method and the principles of engineering and economics, to formulate and solve complex problems in processes, equipment, facilities and services, in which the material changes its composition, state or energy content, characteristic of chemical industry and other related sectors which include the pharmaceutical, biotechnology, materials, energy, food or environmental.
2. Possess independent learning skills to maintain and enhance the competencies of chemical engineering to enable the continued development of their profession.

Transversal:

3. 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.
4. 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

Type	Hours	Percentage
Hours large group	40,5	36.00
Self study	72,0	64.00

Total learning time: 112.5 h

CONTENTS

(ENG) Tema 1: Plásticos de uso general

Full-or-part-time: 15h

Theory classes: 6h

Guided activities: 1h

Self study : 8h

(ENG) Tema 2: Plásticos de Ingeniería

Full-or-part-time: 21h

Theory classes: 8h

Guided activities: 2h

Self study : 11h

(ENG) Tema 3: Termoestables y elastómeros

Full-or-part-time: 10h

Theory classes: 4h

Guided activities: 1h

Self study : 5h

(ENG) Tema 4: Plásticos de altas prestaciones

Full-or-part-time: 7h 30m

Theory classes: 3h

Guided activities: 1h 30m

Self study : 3h

(ENG) Tema 5: Reología de polímeros

Full-or-part-time: 7h 30m

Theory classes: 3h

Guided activities: 1h 30m

Self study : 3h

(ENG) Tema 6: Procesado por extrusión

Full-or-part-time: 14h

Theory classes: 6h

Guided activities: 2h

Self study : 6h



(ENG) Tema 7: Proceso de inyección

Full-or-part-time: 14h

Theory classes: 6h

Guided activities: 2h

Self study : 6h

(ENG) Tema 8: Otras técnicas de transformación

Full-or-part-time: 7h

Theory classes: 3h

Practical classes: 1h

Self study : 3h

GRADING SYSTEM
