

## SUBJECT TEACHING GUIDE

### G808 - Understanding of Industrial Reality

#### Degree in Chemical Engineering First Degree in Chemical Engineering

Academic year 2024-2025

1. IDENTIFYING DATA					
Degree	Degree in Chemical Engineering First Degree in Chemical Engineering			Type and Year	Optional. Year 4 Optional. Year 4
Faculty	School of Industrial Engineering and Telecommunications				
Discipline	Subject Area: Option E: Tutored External Practice Optional Module				
Course unit title and code	G808 - Understanding of Industrial Reality				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web					
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. INGENIERIAS QUIMICA Y BIOMOLECULAR				
Name of lecturer	JONATHAN ALBO SANCHEZ				
E-mail	jonathan.albo@unican.es				
Office	E.T.S. de Ingenieros Industriales y de Telecomunicación. Planta: - 4. SEMINARIO (S4059)				
Other lecturers	SELENE COBO GUTIERREZ				

### 3.1 LEARNING OUTCOMES

- - Knowledge of production systems related to chemical transformation in Cantabria region.
- - Link between basic theoretical aspects and industrial reality.

### 4. OBJECTIVES

- Link the acquired knowledge with the industrial reality.
- Show the different industrial sectors where to develop their future career.
- Bring closer to the industrial processes of Cantabria region

## 6. SUBJECT PROGRAM

### CONTENTS

1	<ul style="list-style-type: none"> <li>- Knowledge of industrial processes in Cantabria region.</li> <li>- Preliminary analysis of the industrial processes, suggesting issues of concern.</li> <li>- Visits/talks of the industrial plants to understand the processes "in situ".</li> </ul>
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## 7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Visits/talks of industrial plants	Others	No	No	35,00
Individual work	Work	No	Yes	35,00
Final report and presentation	Work	No	Yes	30,00
<b>TOTAL</b>				<b>100,00</b>

### Observations

The final mark will be based on the participation and attitude in the visits, the individual reports of the visits, and the final report, where the students have to define the industrial processes, their classification within the different economic activities and the state of the art.

Students with more that two unexcused absences will prepare an oral presentation about the visits.

### Observations for part-time students

Based on the Regulation for the evaluation process of the University of Cantabria (Article 24) the coordinator of the Degree will establish the procedures to ensure the evaluation of the knowledge and skills

## 8. BIBLIOGRAPHY AND TEACHING MATERIALS

### BASIC

La correspondiente a asignaturas de Ingeniería Química:

- Coulson, J.M.; Richardson, J. F. 1996. Chemical Engineering, Editorial Butterworth-Heinemann Ltd, Oxford. ISBN: 978-0750625586.

- McCabe, W.L.; Smith, J. C. 1986. Operaciones Básicas de la Ingeniería Química, Editorial Reverté S.A., Barcelona. ISBN: 978-8429173604.

- Perry R.S.2001, Manual del Ingeniero Químico, Editorial. Mc Graw-Hill. ISBN: 978-8448130084.