

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

a. General information									
Course: C	ROCEDURES FOR INDUSTRY				Code: 57335				
Type: E					ECTS credits: 6				
Degree: 398 - UNDERGRADUATE DEGREE PROGRAMME IN CHEMISTRY						Academic year: 2020-21			
Center: 1 - FACULTY OF SCIENCE AND CHEMICAL TECHNOLOGY						Group(s): 20			
Year: 4						Duration: C2			
Main language: Spanish						Second language: English			
Use of additional languages:						English Friendly: Y			
Web site:						Bilingual: N			
ecturer: ANA RAQUEL DE LA OSA PUEBLA - Group(s): 20									
Building/Office	ding/Office Department		F	Phone number		Email		Office hours	
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ecturer: Mª JESUS RAMOS MARCOS - Group(s): 20									
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2. Pre-Requisites Not established

3. Justification in the curriculum, relation to other subjects and to the profession

This subject is related to the subject of Chemical Engineering. The students learn different industrial chemical processes where basic operations are used (shown in the subject of Chemical Engineering). In addition, this subject gives a global vision of what is the che

4. Degree competence	es achieved in this course
Course competences	
Code	Description
CB03	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
E05	Know the chemical elements and their compounds, their forms of obtaining, structure, properties and reactivity, as well as the main techniques for their analysis
E16	Plan, design and develop projects and experiments
G02	Be able to gather and interpret data, information and relevant results, obtain conclusions and issue reasoned reports on scientific, technological or other problems that require the use of chemical tools
G03	Know how to apply the theoretical-practical knowledge acquired in the different professional contexts of Chemistry
G04	Know how to communicate, orally and in writing, the knowledge, procedures and results of chemistry, both specialized and non-specialized
G05	Acquire and adapt new knowledge and techniques of any scientific-technical discipline with incidence in the chemical field
T03	Proper oral and written communication
T05	Organization and planning capacity
T06	Ability to approach decision making
T07	Ability to work as a team and, where appropriate, exercise leadership functions, fostering the entrepreneurial character
T08	Skills in interpersonal relationships
T10	Ability to use specific software for chemistry at user level
T11	Ability to obtain bibliographic information, including Internet resources

5. Objectives or Learning Outcomes Course learning outcomes

Description

Learn to develop topics and acquire skills in the oral and written presentation at the time of the presentation of results

To ensure that the student is able to search and select information in the field of Organic Chemistry and that he /she is capable of processing and presenting it adequately both orally and in writing, developing his / her synthesis capacity, being critical and objective

Develop your capacity for synthesis, being critical and objective

Develop your ability to teamwork Provide the student with knowledge about the occupational health and safety of the different chemical-industrial processes and their environmental impact, insisting that a good design of the process also implies that it is safe and ecological.

Encourage and promote in the student all those values ¿¿and attitudes inherent to scientific activity. To have a general vision about the different chemical-industrial processes, the economic importance that each one of them has and the industrial interest that the products and subproducts obtained have

Additional outcomes

6. Units / Contents Unit 1: The Industrial Chemistry Unit 2: Air Industry Unit 3: Water Unit 4: Nitrogen compounds of industrial interest Unit 5: Sulfur and Sulfuric acid

Unit 6: Potassium ores Unit 7: Phosphate rocks

Unit 8: Cement and plaster

Unit 9: Use of Silica Unit 10: Safety and industrial hygiene

7. Activities, offics/modules and methodology									
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description		
Class Attendance (theory) [ON-SITE]	Lectures	CB03 CB04 E05 E16 G02 G03 G04 G05	1	25	N	-			
Class Attendance (practical) [ON-SITE]	Practical or hands-on activities	CB03 CB04 E05 G03 G04 G05 T07 T08	0.6	15	Y	N			
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	CB03 CB04 E16 T03 T05 T06	0.4	10	Y	N			
Group tutoring sessions [ON-SITE]	Group Work	CB03 CB04 T06 T07 T08	0.1	2.5	N	-			
Writing of reports or projects [OFF-SITE]	Self-study	CB03 CB04 G02 G03 G05 T10 T11	2.6	65	Y	N			
Study and Exam Preparation [OFF-SITE]	Self-study	CB03 CB04 E05 G04 T03 T05 T10 T11	1.1	27.5	N	-			
Final test [ON-SITE]	Assessment tests	CB03 CB04 E05 G04 T03 T05 T10 T11	0.2	5	Y	Y			
Total:									
Total credits of in-class work: 2.3					Total class time hours: 57.5				
Total credits of out of class work: 3.7					Total hours of out of class work: 92.5				

As: Assessable training activity Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment)

8. Evaluation criteria and Grading System

o. Evaluation of terna and orading bystem			
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Other methods of assessment	10.00%	0.00%	Visit to companies and exhibition of works
Final test	90.00%	100.00%	Final exam
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

Modules are completed by taking either a single (final) module examination or two partial exams. The first partial will serve to eliminate matter in the ordinary final exam. The minimum grade required to make average between the two partials is 4.0 points. To complete the program, the student shall have to obtain a minimum of 5.0 points

The visit to companies and the exhibition of works will be 10% of the final grade. The rest (90%) is the qualification of the exams, partial or final, as the case may be

Non-continuous evaluation:

Evaluation criteria not defined Specifications for the resit/retake exam:

The same criteria as final exam

9. Assignments, course calendar and	l important dates						
Not related to the syllabus/contents							
Hours		hour	s				
To. Bibliography and Sources							
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description	
A. Heaton	The Chemical Industry	Blackie A. & P.	London		1997		
A. Vian	Introducción a la Química Industrial.	Reverté	Barcelona		1994		

A. Vian	Introducción a la Química Industrial.	Reverté	Barcelona	1994
BUCHNER, W.; SCHLIEBS, R., WINTER, G.,; BUCHEL, K.H.	Industrial Inorganic Chemistry	Verlag Chemie.	New York	1989
F. ULLMANN,	Ullmann¿s Encyclopedia of Industrial Chemistry	Verlag Chemie.	Weinheim	1988
G.T. AUSTIN,	Manual de Procesos Químicos en la Industria	Mc Graw Hill	Mejico	1992
J. A. KENT,	Riegel¿s Handbook of Industrial Chemistry	Chemical Society	London	1974
R. THOMPSON,	The Modern Inorganic Chemicals Industry	Chemical Society	London	1987