

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: C	HEMISTRY		Code: 62304						
Type: B	ASIC		ECTS cr	edits: 6					
Degree: 8	year: 2022-23								
Center: 601 - E.T.S. AGRICULTURAL ENGINEERS AND MOUNTS AB Group(s): 10									
Year: 1			Dura	ation: First semester					
Main language: S	panish		Second lange	uage:					
Use of additional languages:	English Friendly: Y								
Web site: Bilingual: N									
Lecturer: GONZALO L	JIS ALONSO DIAZ-MARTA - Group(s):	10							
Building/Office	Department	Phone number	Email	Office hours					
ETSIAMB/ Módulo 1/planta 1ª	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA	967 599310	Gonzalo.Alonso@uclm.es						
Lecturer: AMAYA ZALACAIN ARAMBURU - Group(s): 10									
Building/Office	Department	Phone number	Email	Office hours					
ETSIAMB/ Módulo 1/planta 1ª	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA	926 05 29 02	Amaya.Zalacain@uclm.es						

2. Pre-Requisites

Not established

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

Not established

Course compe	etences	
Code	Description	
E05		
301	Knowledge of foreign language	
303	Oral and written communication	
3 04	Analysis and synthesis capacity	
607	Problem solving	
308	Decision making	
G10	Teamwork	
323	Ability to communicate with non-experts	

5. Objectives or Learning Outcomes
Course learning outcomes
Description

Additional outcomes

6. Units / Contents		
Unit 1:		
Unit 2:		
Unit 3:		
Unit 4:		
Unit 5:		
Unit 6:		
Unit 7:		
Unit 8:		
Unit 9:		
Unit 10:		
Unit 11:		
Unit 12:		
Unit 13:		
Unit 14:		
Unit 15:		
Unit 16:		

7. Activities, Units/Modules and I	7. Activities, Units/Modules and Methodology							
Training Activity	Related Competences lethodology (only degrees before RD E 822/2021)		ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON- SITE]	Lectures	E05 G03 G04 G08	1.02	27.54	Y	N		
Class Attendance (practical) [ON- SITE]	Practical or hands-on activities	E05 G07 G08 G10	0.47	12.69	Y	N		
Writing of reports or projects [OFF- SITE]	Case Studies	E05 G04 G07 G08 G10	0.39	10.53	N	-		
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	E05 G07 G08 G10	0.37	9.99	Y	N		
Study and Exam Preparation [OFF- SITE]	Problem solving and exercises	E05 G03 G07 G08	3.37	90.99	N	-		
Group tutoring sessions [ON-SITE]	Guided or supervised work	E05 G04 G07 G08 G10 G13	0.19	5.13	Y	N		
Mid-term test [ON-SITE]	Assessment tests	E05	0.19	5.13	Y	Y		
Total:				162				
	Total credits of in-class work: 2.24				Total class time hours: 60.48			
	Total credits of out of class work: 3.76					Tot	al hours of out of class work: 101.52	

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							
Evaluation System	Continuous assessment	Non- continuous evaluation*	Description				
Practicum and practical activities reports assessment	25.00%	25.00%					
Assessment of active participation	10.00%	0.00%					
Mid-term tests	65.00%	75.00%					
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).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours hours	
Unit 1 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	.5
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	1
Unit 2 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.5
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	5
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	2
Unit 3 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.5
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	6
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	2
Unit 4 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	4
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	8
Unit 5 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	1

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Activities Hours Class Attendance (theory) [PRESENCIAL][Lectures] 2 Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises] 1 Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] 5 Unit 19 (de 21): Hours Activities Hours Class Attendance (theory) [PRESENCIAL][Lectures] 2		-
Class Attendance (theory) [PRESENCIAL][Lectures] 2 Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises] 1 Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] 5 Unit 19 (de 21): Hours Activities 2 Class Attendance (theory) [PRESENCIAL][Lectures] 2		Houro
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises] 1 Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] 5 Unit 19 (de 21): Hours Activities Hours Class Attendance (theory) [PRESENCIAL][Lectures] 2		
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] 5 Unit 19 (de 21): Activities Hours Class Attendance (theory) [PRESENCIAL][Lectures] 2		
Unit 19 (de 21): Activities Hours Class Attendance (theory) [PRESENCIAL][Lectures] 2	Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	1
Activities Hours Class Attendance (theory) [PRESENCIAL][Lectures] 2		-
Class Attendance (theory) [PRESENCIAL][Lectures] 2	Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	5
	Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 19 (de 21):	5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises] 2	Unit 19 (de 21):	
	Unit 19 (de 21):	Hours
	Unit 19 (de 21): Activities	Hours 2

5

Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]

Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	5
Unit 20 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	1
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	3
Unit 21 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	1
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	2
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	1
Mid-term test [PRESENCIAL][Assessment tests]	.5
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	27.5
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	10
Writing of reports or projects [AUTÓNOMA][Case Studies]	2.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	15
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	87.5
Mid-term test [PRESENCIAL][Assessment tests]	2.5
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	5
	Total horas: 150

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
L. G. Wade	Química Orgánica-Volumen 2	Pearson (México)		9786073207904	2012	7 Edición
Carlos Alonso	Formulación y Nomenclatura de Química Inorgánica y Orgánica http://www.alonsoformula.com/				2017	
FERNÁNDEZ, M. R. y FIDALGO, J.A.	1000 problemas de Química General	Everest. León.			2007	
Fernando Latre y Sergio Menargues	Problemas y Cuestiones de las Olimpiadas de Química. Volúmenes del 1 al 10	Universitaria			2011	
	www.losavancesdelaquimica.com					
Germán Rodríguez	Química Orgánica	Omega. Barcelona.			2016	
Herrero Villen, M. Asunción; Atienza Boronat, M. Julia; Noguera Murray, Patricia S.; Tortajada Genaro, Luis A.; Morais Ezquerro, Sergi B.	PROBLEMAS Y CUESTIONES DE QUÍMICA	Editorial Universitaria Politécnica de Valencia		978-84-9048-420-3	2015	
Kenneth Whitten, Raymond E. Davis, Larry Peck y George G. Stanley	Química 10ª Edición	Cengage Learning Editores			2014	
	https://issuu.com/cengagelatam/doo	cs/whitten_issuu				
PETRUCCI, HARWOOD y HERRING	Química General 10ª Edición	PEARSON		9788415552628	2017	
Peterson W.R.	www.masteringchemistry.com Formulación y Nomenclatura de Química Orgánica	Edunsa.				
Sykes Peter	Química Orgánica-Volumen 1	Editorial Reverté		9788429175158	2010	