

### **UNIVERSIDAD DE CASTILLA - LA MANCHA**

# **GUÍA DOCENTE**

#### 1. General information

Course: CHEMISTRY				Code: 62304			
Type: BA	SIC		ECTS credits: 6				
Degree: 365 EN	5 - UNDERGRADUATE DEGREE PROG VIRONMENTAL ENGINEERING	year: 2021-22					
Center: 601 - E.T.S. AGRICULTURAL ENGINEERS AND MOUNTS AB				<b>up(s):</b> 10			
Year: 1				Duration: First semester			
Main language: Sp	anish		Second lange	Jage:			
Use of additional languages:	Use of additional English Friendly: Y						
Web site:			Bilin	gual: N			
Lecturer: GONZALO LUIS 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 ZALA	CAIN 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

4. Degree competences achieved in this course					
Course compete	etences				
Code	Description				
E05					
G03	Oral and written communication				
G04	Analysis and synthesis capacity				
G07	Problem solving				
G08	Decision making				
G10	Teamwork				
G12					
G13	Autonomous learning				

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 Methodology							
Training Activity Methodology (only 822/		Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON- SITE]	Lectures	E05 G03 G04 G08	1.02	27.54	N	-	
Class Attendance (practical) [ON- SITE]	Practical or hands-on activities	E05 G07 G08 G10 G13	0.47	12.69	Y	Y	
Writing of reports or projects [OFF- SITE]	Case Studies	E05 G04 G07 G08 G10	0.32	8.64	N	-	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises	E05 G07 G08 G10 G13	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	
Progress test [ON-SITE]	Assessment tests	E05	0.19	5.13	Y	N	
Total:			5.93	160.11			
Total credits of in-class work: 2.24				Total class time hours: 60.48			
Total credits of out of class work: 3.69						То	tal hours of out of class work: 99.63

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	10.00%	10.00%					
Theoretical papers assessment	5.00%	0.00%					
Progress Tests	85.00%	90.00%					
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	3
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

Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	5
Unit 6 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	1
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	3
Progress test [PRESENCIAL][Assessment tests]	.5
Unit 7 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	4
Unit 8 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	.5
Study and Exam Preparation [AUTONOMA][Problem solving and exercises]	3
Unit 9 (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 [AUTONOMA][Problem solving and exercises]	3
Progress test [PRESENCIAL][Assessment tests]	.5
Unit 10 (de 21):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1
[Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	3
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	1.5
Study and Exam Preparation [AUTONOMA][Problem solving and exercises]	6
Unit 11 (de 21):	
Activities	Hours
[Class Attendance (theory) [PRESENCIAL][Lectures]	1
Writing of reports or projects [AUTONOMA][Case Studies]	2.5
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	2
Study and Exam Preparation [AUTONOMA][Problem solving and exercises]	2.5
Unit 12 (de 21):	
	Hauma
	Hours
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Proparation [ALITÓNOMA/Problem solving and expresses]	Hours 1.5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	Hours 1.5 5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21):	Hours 1.5 5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities	Hours 1.5 5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	Hours 1.5 5 Hours .5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress text [PRESENCIAL][Lectures]	Hours 1.5 5 Hours .5 2 75
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (do 21):	Hours 1.5 5 Hours .5 2 .75
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities	Hours 1.5 5 Hours .5 2 .75 Hours
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures]	Hours 1.5 5 Hours .5 2 .75 Hours 2
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	Hours 1.5 5 Hours .5 2 .75 Hours 2 5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	Hours 1.5 5 Hours .5 2 .75 Hours 2 5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 15 (de 21): Activities	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL ][Lectures]	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 5
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 5
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 5
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Unit 16 (de 21):         Activities	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 5 Hours 2 Hours 2 5 Hours
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities       Class Attendance (theory) [PRESENCIAL][Lectures]	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 5 Hours 2 5 Hours 1
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Prepar	Hours 1.5 5  Hours .5 2 .75  Hours 2 5  Hours 2 5  Hours 1 3
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test	Hours 1.5 5  Hours .5 2 .75  Hours 2 5  Hours 2 5  Hours 1 3 .25
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 17 (de 2	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 5 Hours 1 3 .25
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 5 Hours 1 3 .25 Hours
Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 17 (de 21):         Activities         Class Attendance (the	Hours 1.5 5  Hours .5 2 .75  Hours 2 5  Hours 2 5  Hours 1 3 .25  Hours 2
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 15 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 15 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 16 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 16 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 17 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Progress test [PRESENCIAL][Assessment tests] Unit 17 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	Hours 1.5 5  Hours .5 2 .75  Hours 2 5  Hours 2 5  Hours 1 3 .25  Hours 2 2 5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 15 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 16 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 16 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 16 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 17 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 17 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	Hours 1.5 5  Hours .5 2 .75  Hours 2 5  Hours 2 5  Hours 1 3 .25  Hours 2 4 5  Hours 1 3 .25  Hours 2 5
Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 13 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 14 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 15 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 15 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 16 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 16 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Unit 17 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Progress test [PRESENCIAL][Assessment tests] Unit 17 (de 21): Activities Class Attendance (theory) [PRESENCIAL][Lectures] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises] Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]	Hours 1.5 5  Hours .5 2 .75  Hours 2 5
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Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 16 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Progress test [PRESENCIAL][Assessment tests]         Unit 17 (de 21):      <	Hours 1.5 5  Hours .5 2 .75  Hours 2 5  Hours 2 6  Hours 2 1 3 .25  Hours 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 13 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 14 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Unit 15 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Study and Exam Preparation [AUTÓNOMA][Problem solving and exercises]         Progress test [PRESENCIAL][Assessment tests]         Unit 17 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]         Unit 17 (de 21):         Activities         Class Attendance (theory) [PRESENCIAL][Lectures]         Problem solving and/or cas	Hours 1.5 5 Hours .5 2 .75 Hours 2 5 Hours 2 4 Hours 2 5 Hours 2 4 Hours 4 5 Hours 5
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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
Progress 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
Progress test [PRESENCIAL][Assessment tests]	2.5
Group tutoring sessions [PRESENCIAL][Guided or supervised work]	5
	Total horas: 150

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