

UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course:	FOREST GENETICS AND IMPROVEMI	ENT		Cod	e: 62322	
Type: CORE COURSE				ECTS credit	s : 6	
Degree: 365 - UNDERGRADUATE DEGREE PROGRAMME IN FOREST AND ENVIRONMENTAL ENGINEERING			Academic year: 2022-23			
Center:	601 - E.T.S. AGRICULTURAL ENGINEI	ERS AND MO	UNTS AB	Group(s): 10		
Year: 3				Duration: First semester		
Main language: Spanish				Second language: English		
Use of additional languages:	Use of additional English Friendly: Y					
Web site:	Web site: Bilingual: Y					
Lecturer: JOSE ANT	ONIO FERNANDEZ PEREZ - Group(s):	10				
Building/Office	Department	Phone number	Email	Of	fice hours	
IDR/Biotecnología	CIENCIA Y TECNOLOGÍA	2611	joseantonio.fperez@	ouclm.es		

2. Pre-Requisites

Not established

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

AGROFORESTAL Y GENÉTICA

Not established

4. Degree compet	ences achieved in this course
Course competend	es
Code	Description
E30	
G01	Knowledge of foreign language
G02	
G03	Oral and written communication
G04	Analysis and synthesis capacity
G05	Organizational and planning skills
G06	Information management capacity
G07	Problem solving
G08	Decision making
G10	Teamwork
G11	Interpersonal skills
G12	
G13	Autonomous learning
G18	
G21	Ability to apply knowledge in practice
G22	Basic knowledge of the profession

5. Objectives or Learning Outcomes

Course learning outcomes

Description

6. Units / Contents	
Unit 1:	
Unit 2:	
Unit 2.1	
Unit 3:	
Unit 4:	
Unit 5:	
Unit 6:	
Unit 7:	
Unit 8:	
Unit 9:	
Unit 10:	
Unit 11:	
Unit 12:	
Unit 13:	

7. Activities, Units/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	E30 G04 G05 G06	1.11	29.97	N	-	
Group tutoring sessions [ON-SITE]	Combination of methods	E30 G03 G04 G06 G10 G12 G13	0.46	12.42	Y	Y	
Workshops or seminars [ON-SITE]	Combination of methods	E30 G08 G10 G11 G12 G18 G21 G22	0.09	2.43	Y	Y	
Laboratory practice or sessions [ON-SITE]	Combination of methods	E30 G12 G13 G21	0.56	15.12	Y	Y	
Study and Exam Preparation [OFF- SITE]	Combination of methods	G08 G10 G11 G18	3.78	102.06	N	-	
Total:				162			
Total credits of in-class work: 2.22				Total class time hours: 59.94			
Total credits of out of class work: 3.78				Total hours of out of class work: 102.06			

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				
Progress Tests	50.00%	0.00%					
Oral presentations assessment	20.00%	0.00%					
Assessment of active participation	5.00%	0.00%					
Laboratory sessions	25.00%	25.00%					
Final test	0.00%	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
Group tutoring sessions [PRESENCIAL][Combination of methods]	12.42
Workshops or seminars [PRESENCIAL][Combination of methods]	2.43
Unit 1 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.19
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	5
Unit 2 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.25
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	5
Unit 3 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.25
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	5
Unit 4 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.25
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	5
Unit 5 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.25
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	5
Unit 6 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.25

Study and Exam Preparation [AUTONOMA][Combination of methods]	5
Unit 7 (de 19):	
Activities	Hours
	1.25
	1.25
Study and Exam Preparation [AUTONOMA][Combination of methods]	4.46
Unit 8 (de 19):	
Activities	Hours
Class Attendance (theory) IDRESENCIALII estural	1.25
	1.25
Study and Exam Preparation [AUTONOMA][Combination of methods]	4.5
Unit 9 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1 25
Laboratory produce or possing IDESENCIAI (Combination of matheda)	7.56
	1.50
Study and Exam Preparation [AU I UNOMA][Combination of methods]	4.5
Unit 10 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][] ectures]	2.82
Grado and Even (Concerting) (Concerting and Concerting and Concert	2.02
	0
Unit 11 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.25
Study and Exam Propagation [AllTANOMATIC ambination of mothods]	1
	+
Unit 12 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	1.25
Study and Exam Preparation [AI ITÓNOMA][Combination of methods]	8 27
	0.27
Unit 13 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.82
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	4.74
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.82
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	4.9
Unit 15 (de 19)	
	Ценика
Activities	Hours
[Class Attendance (theory) [PRESENCIAL][Lectures]	1.25
Laboratory practice or sessions [PRESENCIAL][Combination of methods]	7.56
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	3.9
	11
Activities	Hours
[Class Attendance (theory) [PRESENCIAL][Lectures]	2.82
Study and Exam Preparation [AUTÓNOMA][Combination of methods]	4.42
Unit 17 (de 19):	
Activities	Hours
	1.05
	1.25
Study and Exam Preparation [AUTONOMA][Combination of methods]	4
Unit 18 (de 19):	
Activities	Hours
	1.25
	1.25
Study and Exam Preparation [AUTONOMA][Combination of methods]	4
Unit 19 (de 19):	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][] ectures]	1 25
Study and Evan Proparation (All ITCN/MAIC combination of mothods)	1/ 37
	14.07
Giobal activity	
Activities	hours
Laboratory practice or sessions [PRESENCIAL][Combination of methods]	15.12
Class Attendance (theory) IPRESENCIAL III ectures]	29 97
Study and Exam propagation (ALITCA) (MAI(Combination of methods]	102.06
	102.00
worksnops or seminars [PRESENCIAL][Combination of methods]	2.43
Group tutoring sessions [PRESENCIAL][Combination of methods]	12.42
— -	horas: 162

10. Bibliography and Sources							
Author(s)	Title/Link	Publishing house Citv	ISBN	Year	Description		
		MacGraw-					
J.A. Griffiths	Genética	Hill/Interamericana Madrid de España, S.A.	0-7167-2285-2	2008			

W.S. Klug, M.R. Cummings, C.A. Spencer	Conceptos de Genética	Pearson Education	Madrid	84-8322-042-3	2008
CN de Protección de la Naturaleza	Estrategia española para la conservación y el uso sostenible de los Recursos Genéticos Forestales	MIMAM	Madrid	311-07-040-0	2006
J.I. Cubero	Introducción a la Mejora Genética Vegetal	Mundi-Prensa	Madrid	84-7114-812-9	1999
Jeffery Burley (ed.)	Encyclopedia of Forest Sciences	Elsevier	Amsterdam	9780121451608	2004
Robert H. Tamarin	Principios de Genética	Reverté	Barcelona	978-84-291-1850-6	1996