

UNIVERSIDAD DE CASTILLA - LA MANCHA GUÍA DOCENTE

Code: 37339

ECTS credits: 4.5

Academic year: 2022-23

Group(s): 40

1. General information

Course: IBERIAN VEGETATION, CARTOGRAPHY AND HABITAT MANAGE

Type: ELECTIVE

Degree: 340 - UNDERGRADUATE DEGREE PROGRAMME IN ENVIRONMENTAL

SCIENCES

Center: 501 - FACULTY OF ENVIRONMENTAL SCIENCES AND BIOCHEMISTRY

Duration: C2 Main language: Spanish Second language: Use of additional English Friendly: Y

languages: Web site:

Bilingual: N

Lecturer: MARIA ROSA PEREZ BADIA - Group(s): 40								
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Lecturer: ALFONSO RODRIGUEZ TORRES - Group(s): 40								
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2. Pre-Requisites

Not established

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

The study of plant communities is necessary for the management and conservation of the habitats. This subject is essential for the studens who in the future want work in public or private organisms or consulting companies related to the management of natural environment and its resources, protected areas (National or Natural Parks, etc.), urban and territorial planning and to carrying out studies and reports, particularly those of environmental impact.

4. Degree competences achieved in this course

Course of	competences
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CB02

Description

Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is **CB01** appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.

Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and

justify arguments and solve problems within their subject area.

Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant **CB03**

social, scientific or ethical issues.

CB04 Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.

CB05 Have developed the necessary learning abilities to carry on studying autonomously

E01 Ability to understand and apply basic knowledge.

E02 Capacity for multidisciplinary consideration of an environmental problem

F03 Awareness of the temporal and spatial dimensions of environmental processes

Ability to integrate experimental evidence found in field and/or laboratory studies with theoretical knowledge. E04

E05 Capacity for qualitative data interpretation E06 Capacity for quantitative data interpretation

E07 Capacity to plan, manage and conserve natural resources

E13 Ability to handle software.

E17 Ability to develop, implement and follow environmental impact assessment processes

F18 Capacity to manage the natural environment

T01 To know a second foreign language.

T02 To know and apply the Information and Communication Technologies (ICT).

T03 To use a correct oral and written communication.

T04 To know the ethical commitment and professional deontology.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Mastery of flora and vegetation mapping techniques.

Ability to apply knowledge in the preparation of environmental inventories and in the assessment and evaluation of impacts on vegetation.

Management of flora databases and vegetation inventories.

Management of sampling techniques and classification of plant communities.

Understanding the basis for the management of protected habitat types and of European interest.

6. Units / Contents

- Unit 1: Vegetation classification systems and habitat types
- Unit 2: Biogeography, bioclimatology and floristic elements of the Iberian Peninsula. Endemic flora, threatened flora, and introduced and invasive flora
- Unit 3: Sampling and analysis techniques of plant communities.
- Unit 4: Techniques for mapping flora, vegetation and habitat types, and their environmental applications
- Unit 5: Mediterranean vegetation and habitats types of the Iberian Peninsula
- Unit 6: Bases of the management of the protected habitats
- Unit 7: Bases of the management of urban green spaces

7. Activities, Units/Modules and M	Methodology			,		,		
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description	
Class Attendance (theory) [ON- SITE]	Lectures	CB01 CB02 CB03 CB04 CB05 E01 E02 E03 E04 E05 E06 E07 E13 E17 E18 T01 T03 T04	0.67	16.75	N	-	The objectives and contents of each unit will be discussed. All the material will be available on the virtual platform	
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities	CB01 CB02 CB03 CB04 CB05 E01 E02 E03 E04 E05 E06 E07 E13 E18 T01 T02 T03 T04	0.7	17.5	Υ	Υ	Attendance at practices is considered a compulsory and non reschedulable activity in order to pass the subject. His assessment will be recoverable, either in the extraordinary call (convocatoria) or in the special call (convocatoria) for ending the studies.	
Field work [ON-SITE]	Other Methodologies	CB01 CB02 CB03 CB04 CB05 E01 E02 E03 E04 T04	0.35	8.75	Υ		Field trips to visit several protected areas such as the Reserva de la Biosfera de La Mancha Húmeda and the Parque Nacional de Cabañeros	
Practicum and practical activities report writing or preparation [OFF-SITE]	Guided or supervised work	CB01 CB02 CB03 CB04 CB05 E01 E02 E03 E04 E05 E06 E07 E13 E18 T02 T03	1.5	37.5	Υ	Υ	Student dedication to a report summarizing all the activities carried out in the practical classes	
Final test [ON-SITE]	Assessment tests	CB01 CB02 CB03 CB04 CB05 E01 E02 E03 E04 E05 E06 E07 E13 E18 T03	0.08	2	Υ	1	Written exam of short questions and test to assess the knowledge of theoretical contents of the course.	
Study and Exam Preparation [OFF- SITE]	Self-study	CB01 CB02 CB03 CB04 CB05 E01 E02 E03 E04 E05 E06 E07 E13 E18 T01 T02 T03 T04	1.2	30	Υ	N	Study of the theoretical and practical contens that they must acquire in activities developed in the course.	
		Total:		112.5				
		credits of in-class work: 1.8	Total class time hours: 45					
Total credits of out of class work: 2.7					Total hours of out of class work: 67.5			

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								
Evaluation System	Continuous assessment Non-continuous evaluation*		Description					
Final test	65.00%	1/5 00%	Written exam of short questions and test to assess the knowledge of theoretical contents of the course.					
Laboratory sessions	25.00%	125 00%	Evaluation of practices by conducting a report and an flora recognition test (visu)					
Other methods of assessment	10.00%	0.00%	Evaluation of the questionnaries of the class attendance. They will be evaluated solely based on the percentage of questionnaires carried out.					
Total:		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

The course will be evaluated through the written tests (65%), the practical report and a visual exam (25%), and questionnaires (10%). In order to pass the course, a minimum mark of 4 out of 10 must be obtained in the written test, in the report of practices and in the species recognition test (visu). In any case, the course will only be considered passed if the set of all assessable activities results in a average mark of 5 or higher (out of 10).

Non-continuous evaluation:

The modality assigned by default to the student will be the continuous evaluation. Any student may request the change to the non-continuous evaluation modality (before the end of the class period) by sending an email to the teacher, as long as the 50% of evaluable activities have not been carried out. In the non continuous evaluation students will be evaluate with the written tests (75%), the practical report and a visual exam (25%). In order to pass the course, a minimum mark of 4 out of 10 must be obtained in the written test, in the report of practices and in the species recognition test (visu). In any case, the course will only be considered passed if the set of all assessable activities results in a average mark of 5 or higher (out of 10).

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	17.5
Field work [PRESENCIAL][Other Methodologies]	8.75
Practicum and practical activities report writing or preparation [AUTÓNOMA][Guided or supervised work]	37.5
Final test [PRESENCIAL][Assessment tests]	2
Unit 1 (de 7): Vegetation classification systems and habitat types	-
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.25
Study and Exam Preparation [AUTÓNOMA][Self-study]	4
Unit 2 (de 7): Biogeography, bioclimatology and floristic elements of the Iberian Peninsula. Endemic flora, threat	tened flora, and introduced and invasive
flora	,
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.25
Study and Exam Preparation [AUTÓNOMA][Self-study]	4
Unit 3 (de 7): Sampling and analysis techniques of plant communities.	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	4
Unit 4 (de 7): Techniques for mapping flora, vegetation and habitat types, and their environmental applications	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.25
Study and Exam Preparation [AUTÓNOMA][Self-study]	4.5
Unit 5 (de 7): Mediterranean vegetation and habitats types of the Iberian Peninsula	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.25
Study and Exam Preparation [AUTÓNOMA][Self-study]	4.5
Unit 6 (de 7): Bases of the management of the protected habitats	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.5
Study and Exam Preparation [AUTÓNOMA][Self-study]	4.5
Unit 7 (de 7): Bases of the management of urban green spaces	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2.75
Study and Exam Preparation [AUTÓNOMA][Self-study]	4.5
Global activity	
Activities	hours
Laboratory practice or sessions [PRESENCIAL][Practical or hands-on activities]	17.5
Class Attendance (theory) [PRESENCIAL][Lectures]	16.75
Field work [PRESENCIAL][Other Methodologies]	8.75
Practicum and practical activities report writing or preparation [AUTÓNOMA][Guided or supervised work]	37.5
Final test [PRESENCIAL][Assessment tests]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
1	Total horas: 112.5

10. Bibliography and Sources								
Author(s)	Title/Link	Publishing house City	ISBN	Year	Description			
Baillie, J.E.M., Hilton- Taylor	2004 IUCN red list of threatened species. A global species assessment	Gland,Switzerland & Cambridge,UK		2010				
Bañares A., Blanca G., Güemes J., Moreno J.C. & Ortiz S.	Atlas y Libro Rojo de la Flora Amenazada de España	Ministerio de Medio Ambiente		2003				
Bermejo E. & Cornejo J.M. (coords.)	Atlas y Manual de los hábitats de España	Ministerio de Medio Ambiente		2003				
Blanco E., Casado M.A & al.	Los bosques ibéricos. Una interpretación geobotánica.	Ed. Planeta		1997				
Blondel, J., Aronson, J.,Bodiou, J.Y. & Boeuf, G.	The Mediterranean region:biological diversity through time and space.	Oxford		2010				
Carlos Fabregat & Javier Ranz (eds.)	Manual de identificación de Los hábitats protegidos en la Comunitat Valenciana. Colección Manuales Técnicos Biodiversidad, 7	Generalitat Valenciana		2015				
Loidi J. (ed.)	The Vegetation of the Iberian Peninsula	Springer	978-3-319- 54784-8	2017				
Manuel Costa & Pilar Soriano	Global Strategy for Plant Conservation	Jardin Botánico. Universidad de Valencia		2011				
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Martín Herrero & al.		CComunidades de Castilla La Manchabl.Junta	Toledo 84-7788-281-9	2003
Peinado M. & Martínez Parras J.M.	El paisaie vegetal de Castilla-La Mancha.	de CComunidades de Castilla La Mancha		2010
Rivas-Martínez S.	Mapa de series de vegetación de España 1:400000.	Instituto Nacional para la Conservación de la Naturaleza		1987
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	lem:http://www.magrama.gob.es/es/biodiversidad/temas/red-natura-2000/documentos-claves-de-la-red-natura-			
	www.unex.es/botanica			