

UNIVERSIDAD DE CASTILLA - LA MANCHA GUÍA DOCENTE

1. General information

Course: PLANNING AND MANAGEMENT OF PROTECTED NATURAL AREAS

Type: ELECTIVE

Degree: 340 - UNDERGRADUATE DEGREE PROGRAMME IN ENVIRONMENTAL SCIENCES

Center: 501 - FACULTY OF ENVIRONMENTAL SCIENCES AND BIOCHEMISTRY

Year: 4 Main language: Spanish

Use of additional languages: Web site:

Group(s): 40

ECTS credits: 4.5

Academic year: 2021-22

Duration: First semester

Code: 37334

Second language: English Friendly: Y

Bilingual: N

Lecturer: FEDERICO FERNANDEZ GONZALEZ - Group(s): 40								
Building/Office	uilding/Office Department Phone number Email Office hours							
Edificio Sabatini, Despacho 0.24	CIENCIAS AMBIENTALES	925265753	ltederico tdez(a)ucim es	Tuesday, Wednesday and Thursday from 1:00 p.m. to 3:00 p.m. Request appointment by e-mail for attendance at other time.				

2. Pre-Requisites

Not established

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

Protected areas constitute a basic and classic tool in the strategies of in situ conservation of the natural heritage (biodiversity and geodiversity), that currently are being applied to more than 27% of the Spanish territories under different legal categories. The management of the protected areas and the socio-economic activities related to them are professional sectors offering relevant employment prospects for graduates in environmental sciences. This subject deepens in training on this strategy, whose basic elements were introduced in a previous subject on Conservation Biology. The specific aims are to present the theory on the conception, design, typology and legal regulations of the protected areas, and to analyze the criteria and instruments for their planning and management in the scientific framework of conservation biology and in the regional, national and European administrative spheres.

4. Degree competences achieved in this course Course competences

Code	Description
CB01	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CB02	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.
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.
CB05	Have developed the necessary learning abilities to carry on studying autonomously
CB06	Students have developed the ability to work as a team and lead, direct, plan and supervise multidisciplinary teams
E01	Ability to understand and apply basic knowledge.
E02	Capacity for multidisciplinary consideration of an environmental problem
E03	Awareness of the temporal and spatial dimensions of environmental processes
E04	Ability to integrate experimental evidence found in field and/or laboratory studies with theoretical knowledge.
E05	Capacity for qualitative data interpretation
E06	Capacity for quantitative data interpretation
E07	Capacity to plan, manage and conserve natural resources
E08	Ability to value goods, services and natural resources economically
E09	Capacity to analyze the exploitation of resources in the context of sustainable development
E13	Ability to handle software.
E14	Capacity to design and apply sustainability indicators
E18	Capacity to manage the natural environment
E19	Capacity to carry out integrated spatial planning and development
G01	Proficiency in a second foreign language at level B1 of the Common European Framework of Reference for Languages.
G02	Knowledge of Information and Communication Technologies (ICT).
G03	Good oral and written communication
G04	Ethical commitment and professional deontology

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Learn to critically value different opinions.

Design and implement the most appropriate management strategy according to known circumstances.

Ability to diagnose the state of a conservation objective and analyse the causes that determine it.

Ability to design and carry out monitoring in protected areas.

Capacity to intervene in the design of conservation programmes and implement measures to prevent the extinction of populations, species and habitats.

Capacity to intervene in the design of networks of protected areas.

Ability to participate in the development of natural resource management plans and protected area management plans.

Knowledge of the causes and dimensions of biodiversity loss.

Knowledge of the purposes and functions of protected natural areas within the framework of conservation strategies.

Collaborate and cooperate in multidisciplinary teams.

Management of conservation objectives and prioritization criteria.

Critically analyze the effects of different management proposals.

Maintain an attitude of learning and improvement throughout their studies and in their future professional life.

Organize your work and face any difficulties that may arise in an autonomous and creative way.

Knowledge of the legal system, planning instruments, characteristics and current status of the management of protected areas in Spain.

6. Units / Contents

Unit 1: Introduction to Protected Areas

- Unit 1.1 Concept of protected area, conservation targets and protection modalities, types of protected areas
- Unit 1.2 Criteria for prioritization of conservation targets applied to the design of protected areas
- Unit 1.3 Criteria for selection and design of protected areas

Unit 2: Legislation on protected areas

- Unit 2.1 European Directives: the Habitats Directive and the Natura 2000 Network
- Unit 2.2 Legislation on protected areas in Spain
- Unit 2.3 Legislation in Spanish Autonomous Communities: Castilla-La Mancha
- Unit 2.4 International conventions on protected areas
- Unit 2.5 Administration structure of a protected area: governing bodies, consultation and participation bodies

Unit 3: Planning and management instruments in protected areas

- Unit 3.1 Plans for natural resource management (PORN), Management Plans (PRUG), Sectorial and Special Plans
- Unit 3.2 Working on management plans: inventory, diagnostic, definition of management goals and measures. Zonification, public use, environmental education and research in protected areas
- Unit 4: The Spanish network of protected areas: protected areas in Castilla-La Mancha
- Unit 5: Introduction to monitoring design in protected areas

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	CB01 CB02 CB03 CB04 CB05 CB06 E01 E02 E03 E04 E05 E06 E07 E08 E09 E13 E14 E18 E19 G01 G02 G03 G04	0.68	17	Υ	N	Exposition of the units of the subject, whose presentations, bibliography, complementary readings and questions will be available for the student in the virtual platform. The active participation of the student in the theoretical classes is part of the continuous evaluation.
Class Attendance (practical) [ON- SITE]	Practical or hands-on activities	CB01 CB02 CB03 CB04 CB05 CB06 E01 E02 E03 E04 E05 E06 E07 E13 E14 E18 E19 G01 G02 G03 G04	0.8	20	Y	Y	Laboratory practices combining individual and team work. An analysis and review of the characteristics, planning and management status of several protected areas of Castilla-La Mancha will be developed, using pre-defined forms, and computer programs will be managed for the design and selection of protected areas based on complementarity analysis (Zonation), as well as for the evaluation of the impacts of climate change on the future distribution of conservation targets (Maxent). Inperson attendance at practices is a compulsory and non-recoverable activity in order to pass the subject. Its evaluation will be carried out by means of the individual memory of practices, which is recoverable in both resit/retake exams. Active participation of the student in the practices will be considered within the continuous evaluation. The practices may be optionally complemented with work visits, in principle voluntary, to some protected areas in the region.
		CB01 CB02 CB03 CB04					One or two sessions for each theory topic will be devoted to the discussion on issues and cases

EDUCT Writing or preparation [OFF-SITE] Guided or supervised work GUIDE CB06 E07 E13 E14 E18 E19 G01 G02 G03 G04 GUIDE CB06 E07 E13 E14 E18 E19 G01 G02 G03 G04 GUIDE CB06 E07 E13 E14 E18 E19 G01 G02 G03 G04 GUIDE CB06 E07 E13 E14 E18 E19 G01 G02 G03 G04 GUIDE CB06 E07 E13 E14 E18 E19 G01 G02 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08 E09 E13 E14 G03 G04 GUIDE CB06 E07 E08							schedule for deliveries and presentations will be agreed in the third week of the course.			
the subject will be evaluated. Written test based on problem questions or cases, whose response requires linking arguments related to the different topics covered in the subject. The student can consult the printed or handwritten documentation that he brings with him to the test, which is compulsory and recoverable in the resit/retake exams. CB01 CB02 CB03 CB04 CB05 CB06 E01 E02 E03 E04 E05 E06 E07 E08 E09 E13 E14 G03 G04 CB01 CB02 CB03 CB04 CB05 CB06 E01 E02 E03 E04 E05 E06 E01 E02 E03 E04 E05 E06 E01 E02 E03 E04 E05 E06 E07 E08 E09 1.2 30 N - recommended bibliography,	Practicum and practical activities report writing or preparation [OFF- SITE]	Guided or supervised work	CB05 CB06 E01 E02 E03 E04 E05 E06 E07 E13 E14		17.5	Y	third week of the course. Preparation and delivery of the report on practices, presented individually from them information obtained through individual and team work, according to forms and schemes that Y will be provided at the beginning of the practice week. The presentation of this report is compulsory and			
him to the test, which is compulsory and recoverable in the resit/retake exams. CB01 CB02 CB03 CB04 Autonomous work of the student: study of presentations and Preparation [OFF-Self-study E04 E05 E06 E07 E08 E09 1.2 30 N - recommended bibliography,	Final test [ON-SITE]	Assessment tests	CB05 CB06 E01 E02 E03 E04 E05 E06 E07 E08 E09	0.08	2	Y	the subject will be evaluated. Written test based on problem questions or cases, whose response requires linking arguments related to the different topics covered in the subject. The student can consult the printed or handwritten			
Study and Exam Preparation [OFF-] Self-study E04 E05 E06 E07 E08 E09 1.2 30 N - recommended bibliography,			CB01 CB02 CB03 CB04				him to the test, which is compulsory and recoverable in the resit/retake exams. Autonomous work of the student:			
G03 G04 studies, preparation of tests, etc.	Study and Exam Preparation [OFF- SITE]	Self-study	E04 E05 E06 E07 E08 E09 E13 E14 E18 E19 G01 G02 G03 G04			N	recommended bibliography, resolution of exercises and case			
Total credits of in-class work: 1.8 Total class time hours: 45	Total credits of in-class work: 1.8 Total credits of out of class work: 2.7									

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					
Assessment of active participation	5.00%	0.00%	Evaluation criteria: participation and initiative in the dynamics of the classes, seminars and lab practices; correction in the resolution of questions and cases in the seminars; clarity and ownership in the individual presentations and interventions in the debates; ethical commitment					
Final test	40.00%	65.00%	Evaluation criteria: adequacy and originality of the argumentation and the reasoning of the answers; clarity, correctness and organization of the answers					
Practicum and practical activities reports assessment	30.00%	35.00%	Evaluation criteria: adequacy of the reports to the corresponding scripts and forms; correction and clarity in the writing and presentation of the results obtained; teamwork coordination					
Projects	25.00%	0.00%	Evaluation criteria: adequacy of the report structure to the established script; adequacy and completeness of the sources of information consulted; correction and relevancy of the references; precision and clarity of the writing; coordination within the working group					
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:

To pass the subject, it is necessary to obtain a score of at least 4 out of 10 in the final test, the supervised work and the practices report, and that the result of the weighting of the evaluation scores is a grade equal to or greater than 5 out of 10.

Non-continuous evaluation

The weight of the practice report and the final test will be increased with that of the non-compulsory evaluations (active participation and voluntary projects) in case of no qualification of the latter. To pass the subject, it is necessary to obtain a score of at least 4 out of 10 in the final test and the practices report, and that the result of the weighting of the evaluation scores is a grade equal to or greater than 5 out of 10.

Specifications for the resit/retake exam:

Similar to those of the final exam. The qualification obtained in the practicum assessment may be retained during the following two academic years.

Specifications for the second resit / retake exam:

Similar to those of the resit/retake call.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Writing of reports or projects [AUTÓNOMA][Guided or supervised work]	20
Practicum and practical activities report writing or preparation [AUTÓNOMA][Guided or supervised work]	17.5
Final test [PRESENCIAL][Assessment tests]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Unit 1 (de 5): Introduction to Protected Areas	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	8
Workshops or seminars [PRESENCIAL][Case Studies]	1
Unit 2 (de 5): Legislation on protected areas	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Workshops or seminars [PRESENCIAL][Case Studies]	1
Unit 3 (de 5): Planning and management instruments in protected areas	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	4
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	8
Workshops or seminars [PRESENCIAL][Case Studies]	2
Unit 4 (de 5): The Spanish network of protected areas: protected areas in Castilla-La Mancha	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Workshops or seminars [PRESENCIAL][Case Studies]	1
Unit 5 (de 5): Introduction to monitoring design in protected areas	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	3
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	2
Workshops or seminars [PRESENCIAL][Case Studies]	1
Global activity	
Activities	hours
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	20
Workshops or seminars [PRESENCIAL][Case Studies]	6
Practicum and practical activities report writing or preparation [AUTÓNOMA][Guided or supervised work]	17.5
Final test [PRESENCIAL][Assessment tests]	2
Study and Exam Preparation [AUTÓNOMA][Self-study]	30
Writing of reports or projects [AUTÓNOMA][Guided or supervised work]	20
Class Attendance (theory) [PRESENCIAL][Lectures]	17
	Total horas: 112.5

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
UNEP-WCMC	State of the world's protected areas: an annual review of global conservation progress Información sobre las áreas protegidas de Castilla-La Mancha ¿ http://pagina.jccm.es/medioambier Web Revista Medio Ambiente en Castilla-La Mancha http://www.revistamedioambientejcc	. –	Cambridge urales/indexrap	ocm.htm	2008	
	Web de Europarc-España http://www.redeuroparc.org/que_es_	_europarc.jsp				Información y documentación sobre espacios protegidos en España

I	Mah da la Angraia Ambiantal				1
	Web de la Agencia Ambiental Europea (EEA)				
	http://www.eea.europa.eu/themes				
	Web de la IUCN				
	http://www.iucn.org/				
	Web de la World Database on				
	Protected Areas (WDPA)				
	http://www.wdpa.org/Default.aspx				
	Web del Organismo Autónomo				
	Parques Nacionales (OAPN)				
	http://www.magrama.gob.es/es/parqu	ues-nacionales-o	apn/default.as	рх	
	Web sobre conservación de la				
	biodiversidad del Ministerio para la Transición Ecológica				
	http://www.magrama.gob.es/es/biodi	versidad/temas/d	efault asny		
	Guidelines for applying protected		Gland		
Dudley N (Ed)	area management categories	IUCN	(Switzerland)	978-2-8317-1636-7	2013
		Fundación			
EUROPARC-España	Anuario 2016 del estado de las	Fernando	Madrid		2017
Lorror Arro España	áreas protegidas en España	González	Madrid		2017
		Bernáldez			
	Diseño de planes de seguimiento	Fundación Fernando			
EUROPARC-España	en espacios naturales protegidos.	González	Madrid		2005
	Manual para gestores y técnicos	Bernáldez			
		Fundación			
Europarc-España	Planificar para gestionar los	Fernando	Madrid		2008
Luiopaic-Lapaila	espacios naturales protegidos	González	Madrid		2000
		Bernáldez			
	Procedimiento de asignación de las	Fundación			
Europarc-España	categorías de manejo UICN a los	Fernando González	Madrid		2008
	espacios naturales protegidos	Bernáldez			
Fornándos Consálos F. Dáros		Fundación			
Fernández-González F., Pérez Badia M.R., Sardinero S.,	Espacios naturales protegidos y	General de			
Rodríguez Torres A. & Crespo	cambio climático en Castilla-La	Medio Ambiente	Toledo		2009
G.	Mancha	de Castilla-La			
		Mancha Gestión			
	Guía metodológica para la	Ambiental,			
García Fernández-Velilla S.	elaboración de los planes de	Viveros y	Pamplona		2003
	gestión de los lugares Natura 2000 en Navarra	Repoblaciones	·		
	enivavana	de Navarra S.A.			
Mulero Mendigorri A.	La protección de espacios naturales	Mundi-Prensa			2002
	en España				
	La Red Natura 2000 en Castilla-La	Junta de Comunidades			
Ruiz R. & Serrano C. (Eds)	Mancha	de Castilla-La	Toledo		2009
		Mancha			
	Información sobre la Red Natura				
	2000 en Castilla-La Mancha				
	www.castillalamancha.es/gobierno/d			dgapfyen/actuaciones/red	d-natura-2000tramitaci%C3%B3n-
	de-planes-de-gesti%C3%B3n-y-dec	laraci%C3%B3n-	-de-zec		
	IUCN Green List of Protected and				
IUCN	Conserved Areas: Standard,	IUCN	Gland, Suiza		2017
	Version 1.1. The global standard for protected areas in the 21st Century				
		Universidad El			
Worboys G.L., Lockwood M.,	Gobernanza y gestión de áreas	Bosque & ANU	Bogotá	978-958-739-133-6	2019
Kothari A., Feary S. & Pulsford I.	protegidas	Press			
	Web europea sobre la Red Natura				
	2000				
	europa.eu.int/comm/environment/na	ture	0		
			Cambridge UK; Gland,		
		UNEP-WCMC,	Switzerland;		
UNEP-WCMC, IUCN & NGS	Protected Planet Report 2018	IUCN & NGS	and	978-92-807-3721-9	2018
			Washington,		
			D.C., USA		