Information about the subject

Degree: Bachelor of Degree in Marine Sciences

Faculty: Faculty of Veterinary Medicine and Experimental Sciences

Code: 270206 **Name:** Protected Areas and Recovery of Species

Credits: 6,00 **ECTS Year:** 2, 3, 4 **Semester:** 1

Module: Optional Itinerary: Marine Biology, Optional Itinerary: Marine Environment Management

Subject Matter: Protected Areas and Recovery of Species **Type:** Elective

Department: Oceanography and Environment

Type of learning: Classroom-based learning

Languages in which it is taught: English

Lecturer/-s:

OPM9	Pablo Jose Sanchis Benlloch **(English Responsible Lecturer)**	pj.sanchis@ucv.es

Module organization

Optional Itinerary: Marine Biology

Subject Matter	ECTS	Subject	ECTS	Year/semester
R+D in Marine Sciences	6,00	R&D in Marine Sciences	6,00	2, 3, 4/1
Biology of Cetaceans	6,00	Cetaceans Biology	6,00	2, 3, 4/1
Ichthyology	6,00	Ichthyology	6,00	This elective is not offered in the academic year 23/24
Aquariology	6,00	Aquariology	6,00	This elective is not offered in the academic year 23/24
Bioindicators	6,00	Bioindicators	6,00	2, 3, 4/1
Protected Areas and Recovery of Species	6,00	Protected Areas and Recovery of Species	6,00	2, 3, 4/1
Clinic and Health of Aquatic Animals	6,00	Clinical Treatment and Healthcare of Aquatic Animals	6,00	2, 3, 4/1

Optional Itinerary: Marine Environment Management

Subject Matter	ECTS	Subject	ECTS	Year/semester
Marine Environment Geography	6,00	Geography of the marine environment	6,00	This elective is not offered in the academic year 23/24

Marine Engineering	6,00	Maritime Engineering	6,00	This elective is not offered in the academic year 23/24
Evaluation of Environmental Impact	6,00	Assessment of Environmental Impact	6,00	2, 3, 4/1
Natural and Anthropic Risks in the Marine Environment	6,00	Natural and Anthropic Risks in the marine environment	6,00	This elective is not offered in the academic year 23/24
Environmental Education	6,00	Environmental Education	6,00	2, 3, 4/1
Renewable Energies and Marine Mineral Resources	6,00	Renewable energies and marine mineral resources	6,00	This elective is not offered in the academic year 23/24

Recommended knowledge

No prerequisites

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

R1 The student distinguishes the different concepts and recognizes their application in the matter.

R2 The student is able to prepare documents from the material used in the theoretical classes.

R3 The student recognises the different categories of classification of protected natural areas and their application in the natural environment.

R4 The student can use the most important concepts and methodological strategies related to the conservation and management of protected natural spaces.

R5 The student is able to assess the degree of threat to habitats and species and its consequences on natural and socio-economic systems.

R6 The student employs legislation on habitat and species recovery.

R7 The student argues with rational criteria from his work.

Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB3	Students are able to collect and interpret relevant data (generally in their field of study) and give opinions that involve reflection on relevant social, scientific or ethical issues.				x
CB5	Students develop the necessary learning skills to undertake further studies with a high level of autonomy.				x

GENERAL		Weighting			
		1	2	3	4
CG1	Capacity to analyze and synthesize				x
CG2	Capacity to organize and plan			x	
CG6	Capacity to manage information (capacity to look for and analyze information coming from different types of sources)				x
CG7	Decision making			x	
CG8	Capacity to work in interdisciplinary and multidisciplinary team				x
CG10	Critical and self-critical capacity				x
CG11	Capacity to learn			x	
CG12	Capacity to adapt to new situations				x
CG16	Capacity to apply theoretical knowledge				x
CG17	Research skills				x

CG18	Sensibility to environmental issues.				x

SPECIFIC		Weighting			
		1	2	3	4
CE5	Applying marine environment use planning techniques as well as resource sustainable management				x
CE6	Applying marine instrument techniques				x
CE8	Identifying and analyzing new problems and proposing solution strategies				x
CE9	Knowing how to carry out experiments and measurements both in the laboratory and during sample collection				x
CE11	Knowing how to do fieldwork and laboratory experiments in a safe and responsible way, promoting teamwork				x
CE22	Practical experience of methods of marine environmental impact assessment				x

Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R3, R4, R7	50,00%	Written test with theoretical and practical questions
R2, R3, R5, R6	40,00%	Delivery of guided assignments, whose objectives and contents will be proposed by the teacher
R2, R7	10,00%	Oral presentation

Observations

The final grade is calculated using the average obtained between the different percentages of each evaluation system. To obtain more than a 4 over 10 in the final grade, a minumum of 5 over 10 must have been obtained in each of the different evaluation systems.

MENTION OF DISTINCTION:
According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 (“Sobresaliente”). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

M1	Teacher presentation of contents, analysis of competences, explanation and in-class display of skills, abilities and knowledge.
M2	Group work sessions supervised by the professor. Case studies, diagnostic tests, problems, field work, computer room, visits, data search, libraries, on-line, Internet, etc. Meaningful construction of knowledge through interaction and student activity.
M4	Supervised monographic sessions with shared participation.
M5	Application of multidisciplinary knowledge.
M6	Personalized and small group attention. Period of instruction and/or guidance carried out by a tutor to review and discuss materials and topics presented in classes, seminars, readings, papers, etc.
M8	Set of oral and/or written tests used in initial, formative or additive assessment of the student.
M9	Group preparation of readings, essays, problem-solving, seminars, papers, reports, etc. to be presented or submitted in theoretical , practical and/or small-group tutoring sessions. Work done on the university e-learning platform (www.plataforma.ucv.es)
M10	Student's study: Individual preparation of readings, essays, problem-solving, seminars, papers, reports, etc. to be presented or submitted in theoretical, practical and/or small-group tutoring sessions. Work done on the university e-learning platform (www.plataforma.ucv.es).

IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
ON-CAMPUS CLASS M1	R1, R2, R3, R4, R6, R7	30,00	1,20
PRACTICAL CLASSES M2	R1, R2, R3, R4, R5, R6, R7	20,00	0,80
SEMINAR M4	R2, R3, R4, R6, R7	3,00	0,12
GROUP PRESENTATION OF ASSIGNMENTS M5	R3, R4, R5, R7	2,00	0,08
TUTORIAL M6	R7	3,00	0,12
ASSESSMENT M8	R1, R2, R3, R5, R6, R7	2,00	0,08
TOTAL		**60,00**	**2,40**

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
GROUP WORK M9	R2, R3, R4, R5, R6	20,00	0,80
INDEPENDENT WORK M10	R1, R2, R3, R4, R5, R6, R7	70,00	2,80
TOTAL		**90,00**	**3,60**

Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
Unit 1. PROTECTED NATURAL PARKS AND THE MANAGEMENT FOR ITS CONSERVATION.	Natural Protected Areas (ENP). Conservation of the ENP in the international, national and regional context. Management, panning and public uses of the ENP.
Unit 2. PROTECTED MARINE AREAS	Requirements for an area to be clasified as marine protected area. Protection categories: Marine Protected Areas, international figures of protection, marine areas protected by the network Natura 2000 and fishing interest zone. General management of marine protected areas.
Unit 3. RECOVERY OF THREATENED SPECIES. SPECIES RECOVERY CENTERS	General tools for the recovery of threatened species. Structure of the action plans: Analysis of the situation about the species to be conserved, conservation and application guidelines of a threatened species.

Organization of the practical activities:

	Content	Place	Hours
PR1.	Visit to the Natural Park Sierra D'Irta (Castellón) "prat de cabanes-torreblanca"	Technical visit	2,00
PR2.	Visit to the Natural Park of El Motgó (Denia) protected marine area	Technical visit	2,00
PR3.	Visit to the Natural Sciences Museum	Technical visit	2,00
PR4.	Visit to the Natural Park "albufera de valencia"	Technical visit	2,00

Temporary organization of learning:

Block of content	Number of sessions	Hours
Unit 1. PROTECTED NATURAL PARKS AND THE MANAGEMENT FOR ITS CONSERVATION.	10,00	20,00
Unit 2. PROTECTED MARINE AREAS	10,00	20,00
Unit 3. RECOVERY OF THREATENED SPECIES. SPECIES RECOVERY CENTERS	10,00	20,00

References

Claudet, J., & Guidetti, P. (2010). Improving assessments of marine protected areas. Aquatic conservation marine and freshwater ecosystems.
Concepción, E. D. (2020). Urban sprawl into Natura 2000 network over Europe. Conservation Biology.
De Koning, J., Winkel, G., Sotirov, M., Blondet, M., Borras, L., Ferranti, F., & Geitzenauer, M. (2014). Natura 2000 and climate change—polarisation, uncertainty, and pragmatism in discourses on forest conservation and management in Europe. Environmental science & policy, 39, 129-138.
Gaston, K. J., Jackson, S. F., Nagy, A., Cantú-Salazar, L., & Johnson, M. (2008). Protected areas in Europe: principle and practice. Annals of the New York Academy of Sciences, 1134(1), 97-119.
Gianni, F., Bartolini, F., Airoldi, L., Ballesteros, E., Francour, P., Guidetti, P., ... & Mangialajo, L. (2013). Conservation and restoration of marine forests in the Mediterranean Sea and the potential role of Marine Protected Areas. Advances in oceanography and limnology, 4(2), 83-101.
Hermoso, V., Morán-Ordóñez, A., & Brotons, L. (2018). Assessing the role of Natura 2000 at maintaining dynamic landscapes in Europe over the last two decades: implications for conservation. Landscape Ecology, 33(8), 1447-1460.
Maestro, M., Pérez-Cayeiro, M. L., Chica-Ruiz, J. A., & Reyes, H. (2019). Marine protected areas in the 21st century: Current situation and trends. Ocean & Coastal Management, 171, 28-36.
Mazaris, A. D., Kallimanis, A., Gissi, E., Pipitone, C., Danovaro, R., Claudet, J., ... & Fraschetti, S. (2019). Threats to marine biodiversity in European protected areas. Science of the Total Environment, 677, 418-426.
Solandt, J. L., Mullier, T., Elliott, S., & Sheehan, E. (2020). Managing marine protected areas in Europe: Moving from 'feature-based'to 'whole-site'management of sites. In Marine Protected Areas (pp. 157-181). Elsevier.
Zhenshan, L., & Shuguang, W. (2002). Study on the relations between the animal species extinction and habitat destruction. Acta Ecologica Sinica, 22(4), 535-540.

WEBPAGES
https://ec.europa.eu/environment/index_en
http://parquesnaturales.gva.es
http://www.europarc-es.org/
http://www.mma.es
http://www.ramsar.org
http://www.unesco.org http://ec.europa.eu/environment/index_es.htm
http://www.iucn.org/es/
http://www.fundacion-biodiversidad.es/habladebiodiversidad/
http://www.cram.org http://www.seo.org
http//www.oceana.org
http//www.faunatura.com/arca-del-mar-de-loceanografic.html

http//www.cites.org
http//www.ecomarg.net
http//www.cma.gva.es
http://www.magrama.gob.es

Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

[X] Microsoft Teams

[ ] Kaltura

Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

X	Microsoft Teams
	Kaltura

Explanation about the practical sessions:

2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

[X] The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

[ ] The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: