

Analysis and Management of Natural Landscapes

Code: 43054
ECTS Credits: 6

Degree	Type	Year	Semester
4313784 Interdisciplinary Studies in Environmental, Economic and Social Sustainability	OT	0	1

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: english (eng)

Teachers

Sonia Sánchez Mateo

Raquel Cunill Artigas

Prerequisites

Students must have basic knowledge in environmental sciences and ability to follow lectures in English.

Objectives and Contextualisation

To understand the landscape as an expression of natural and social history.

Methodological approach to understand and analyse examples in Europe and the Mediterranean region.

Comprehend a historical perspective on the conservation origins and Natural Protected Areas (NPA), as well as the existing legislative figures of protection.

To study tools for management and biodiversity monitoring and conservation in Natural Protected Areas (NPA), in the context of global change and its socioecological implications.

Explain criteria and analytical and legal tools for diagnosis and assessment of NPA management.

Competences

- Analyse how the Earth functions on a global scale in order to understand and interpret environmental changes on the global and local scales.
- Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
- Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.

- Seek out information in the scientific literature using appropriate channels, and use this information to formulate and contextualise research in environmental sciences.
- Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
- Work in an international, multidisciplinary context.

Learning Outcomes

1. Assess human impact on coastal areas and the function of marine nature reserves, both coastal and oceanic, in biodiversity conservation and the capacity to generate biomass.
2. Communicate and justify conclusions clearly and unambiguously to both specialised and non-specialised audiences.
3. Integrate knowledge and use it to make judgements in complex situations, with incomplete information, while keeping in mind social and ethical responsibilities.
4. Interpret current models for protected natural areas with local and worldwide cases, both marine and terrestrial.
5. Locate and analyse the great biogeographical regions and their situation regarding the conservation of biodiversity.
6. Seek out information in the scientific literature using appropriate channels, and use this information to formulate and contextualise research in environmental sciences.
7. Solve problems in new or little-known situations within broader (or multidisciplinary) contexts related to the field of study.
8. Work in an international, multidisciplinary context.

Content

LANDSCAPE

Session 1. October 19th

Module presentation. Carles Barriocanal

Session 2. October 21th

Landscape and Landscapes. Raquel Cunill

Session 3. October 26th

Socioecological heritage and rural landscapes. Carles Barriocanal

Session 4. October 28th

Global change indicators: forests and Mediterranean river basins. Sònia Sànchez Mateo

PROTECTED AREAS

Session 5. November 2^d.

The origin and the evolution of Protected Areas. Protection schemes. Carles Barriocanal

Session 6. November 4th

Biosphere reserves as science for sustainability support sites . Sònia Sànchez Mateo

EXPERIENCES FROM THE ANALYSIS AND THE MANAGEMENT IN PROTECTED AREAS

Session 7. November 9th

Natural Park and Biosphere Reserve of Montseny. Objectives and interactions between protection figures.
Maria Barrachina Giménez

Session 8. November 16th

The Pyrenees as a transfrontier conservation area. Marc Garriga Lújan

Session 9. November 18th

Cajas Massif Biosphere Reserve and National Park: an Andean experience. José Francisco Cáceres

Session 10. November 23th

Tourism management in natural protected areas. Carles Barriocanal

Visitors pressure indicators in Costa Rica protected areas. Michael Moya.

Field trip. Montseny (20 novembre)

Field Trip. Terres de l'Ebre (dates pending confirmation)

* In case the field trips cannot be carried out, they will be replaced by activities.

Methodology

Lectures

Active participation in the classroom

Field trip

Essays/works

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Field work	30	1.2	4, 7, 5
Theoretical presentations	40	1.6	2
Type: Autonomous			
Essays/works preparation	37	1.48	6, 2
Lectures	25	1	3

Assessment

The final mark will be the result of:

Exam (40 %).

Reports of field trips (25 %).

Critical essay of a paper (30 %).

Attendance and participation (5 %).

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Active participation in the classroom	5%	4	0.16	6, 3, 7, 2
Exam, field work delivery and essays	95%	14	0.56	6, 4, 3, 7, 2, 5, 8, 1

Bibliography

References

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Further reading

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