Analysis and Management of Natural Landscapes

Code: 43054  
ECTS Credits: 6

Contact

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Teachers

Roser Maneja Zaragoza  
Josep-Antoni Pujantell Albos

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 Latin America, 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-situ, ex-situ) 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.

Skills

- 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, 15th
Module presentation. Josep Pujantell & Roser Maneja.
Qualitative and quantitative approaches to landscape. Josep Pujantell.

Session 2. October, 17th
Socioecological heritage and rural landscapes. Josep Pujantell
Conservation and the role of primary sector in sustainable production. Marc Costa (Fundació Món Rural, FMR).

Protected Areas

Session 3. October, 22nd
The origins and the evolution of Protected Areas. Protection schemes. International regimes concerning protected areas. Josep Pujantell

Session 4. October, 24th
Protection schemes: Biosphere Reserves. Josep Pujantell
Management and conservation experiences in a Biosphere Reserve. The case of Cajas Biosphere Reserve (Ecuador). Jose Francisco Cáceres

Session 5. October, 29th
Protection schemes: National Parks. Josep Pujantell
Protection schemes: Natural Parks. Josep Pujantell
Experiences from the analysis and the management in Protected Areas

Session 6. October, 31th

Ex-situ” and "In-situ" conservation. The case of the Montseny brook newt. Salvador Carranza (Researcher at the Institute of Evolutionary Biology, CSIC-UPF).

Session 7. November, 5th

Analysis, participation and land management from the socioecology. Iago Otero (Researcher at the Humboldt Foundation, Berlin).

Session 8. November, 7th

Protected areas and sustainable tourism. Evaluation and certification methodologies. Carles Barriocanal (ICTA, professor at UB).

Field trip. Pyrenees (dates pending confirmation)

Methodology

Lectures

Active participation in the classroom

Field trip

Essays/works

Activities

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<th>Title</th>
<th>Hours</th>
<th>ECTS</th>
<th>Learning outcomes</th>
</tr>
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<td></td>
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<tr>
<td>Field work</td>
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<td>1.2</td>
<td>4, 7, 5</td>
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<tr>
<td>Theoretical presentations</td>
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<td>1.6</td>
<td>2</td>
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<tr>
<td>Essays/works preparation</td>
<td>37</td>
<td>1.48</td>
<td>6, 2</td>
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<tr>
<td>Lectures</td>
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<td>1</td>
<td>3</td>
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Evaluation

The final mark will be the result of:

Analysis of management in a protected area (National Park, Natural Park, Biosphere Reserve) (65 %).

Report of field trip (20 %).

Critical essay of a paper (10 %).

Attendance and participation (5 %).
Evaluation activities

<table>
<thead>
<tr>
<th>Title</th>
<th>Weighting</th>
<th>Hours</th>
<th>ECTS</th>
<th>Learning outcomes</th>
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<tbody>
<tr>
<td>Active participation in the classroom</td>
<td>5%</td>
<td>4</td>
<td>0.16</td>
<td>6, 3, 7, 2</td>
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<tr>
<td>Essays/works delivery</td>
<td>95%</td>
<td>14</td>
<td>0.56</td>
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Bibliography

References


Otero, I.; Boada, M. i Tàbara, J.D. (2013): Social-ecological heritage and the conservation of Mediterranean landscapes under global change: a case study in Olzinelles (Catalonia). Land Use Policy. 30, pp. 25 - 37. Butterworth Scientific. ISSN 0264-8377


Further reading


Further reading in Catalan and in Spanish


Websites


IUCN. Protected Areas. <https://www.iucn.org/theme/protected-areas>

Protected Planet. https://www.protectedplanet.net/

UNEP. <https://www.unep-wcmc.org/resources-and-data/united-nations-list-of-protected-areas>