Course guide
210931 - EC P - Ecology and Landscape

Unit in charge: Barcelona School of Architecture
Teaching unit: 740 - UOT - Department of Urbanism and Regional Planning.
Degree: MASTER'S DEGREE IN LANDSCAPE ARCHITECTURE (Syllabus 2015). (Optional subject).
Academic year: 2022 ECTS Credits: 3.0 Languages: Catalan, Spanish, English

LECTURER
Coordinating lecturer: ANA MARIA ZAHONERO XIFRE
Others: Segon quadrimestre: ANA MARIA ZAHONERO XIFRE - 40

TEACHING METHODOLOGY
Theoretical classes.
Lectures in master class format where the disciplinary body is presented and main concepts are established. To attain knowledge, bibliographic material is provided, this material will be worked independently and will be discussed in complementary activities. Thematic lectures by external speakers that develop examples of professional work on the main themes of landscape ecology.

Field trips.
Visits and fieldwork to explore landscape projects developed under the criteria of landscape ecology.

Personal untutored work
This activity includes, mandatory, the performance of work derived from classes.

LEARNING OBJECTIVES OF THE SUBJECT
- Know, understand and apply the basic concepts of landscape ecology
- Know, understand and apply the basic concepts socio-ecology.

STUDY LOAD

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours large group</td>
<td>22.5</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Total learning time: 22.5 h
DESCRIPTION:
Develop the basics of landscape ecology and socio-ecology:
1) Basis of Landscape Ecology: tile, connector array; Ecotone: edge effects; Ecological connectivity; Habitat fragmentation.
2) Urban ecology: function and metabolism; Green city infrastructure, urban ecosystem services system. Quality indicators of urban space.
3) Ecological landscape planning: green infrastructure and territory, the territorial matrix of ecosystem services.
4) Tertiary landscape and manage sustainable traditional uses of the landscape.
5) Basic concepts of ecological economics.

Full-or-part-time: 45h
Theory classes: 30h
Laboratory classes: 15h

GRADING SYSTEM
The final summative evaluation will be the result of the partial evaluations obtained in the various activities carried out in accordance with the planning of the course.
The evaluative activities consist of an exam on the subjects developed in the theoretical classes (40%); a practical exercise in ecological analysis of a concrete territory (40%); and a summary text of each of the visits (20%).

Continuous telematic evaluation
In online teaching situations, continuous assessment will be carried out synchronously and asynchronously by the means established by the University and the School, with a periodic record of academic activity through submissions, forums, questionnaires or any other means facilitated by the Atenea platform, or the alternatives provided to the teaching staff. In the situations in which this telematic teaching is a product of face-to-face teaching that has already begun, or for questions of extra-academic order, the changes in the weightings or regular control systems of the teaching will be communicated in detail to all students by the Athena of each subject.

Telematic final evaluation
If the continuous telematic evaluation is not positive, a second evaluation can be carried out, which will consist of a final test of a global nature in telematic format that will be established in accordance with the criteria of the professor responsible and the media and ICTs provided by the University or School.

The measures for adaptation to non-classroom teaching will be implemented in accordance with the criteria of ICT security and personal data protection to ensure compliance with the legislation on Personal Data Protection (RGPD and LOPDGDD)

BIBLIOGRAPHY
Basic:
- "Infraestructuras transversales a cursos fluviales e infraestructura lineales de conducción de agua. Medidas para la reducción de sus impactos sobre la fauna y los hábitats fluviales". Book of abstracts of the XV Congress of the Iberian Association of Limnology. p. 171-172.
RESOURCES

Hyperlink:
- Intranet Docent. https://atenea.upc.edu/moodle/login/index