



Course guide

210930 - CO P - Construction and Landscape

Last modified: 14/12/2023

Unit in charge: Barcelona School of Architecture
Teaching unit: 753 - TA - Department of Architectural Technology.

Degree: MASTER'S DEGREE IN LANDSCAPE ARCHITECTURE (Syllabus 2015). (Optional subject).

Academic year: 2023 **ECTS Credits:** 3.0 **Languages:** English

LECTURER

Coordinating lecturer: MARIA DEL MAR PÉREZ CAMBRA

Others: Segon quadrimestre:
MARIA DEL MAR PÉREZ CAMBRA - Grup: 1R2S

PRIOR SKILLS

tenacity

REQUIREMENTS

Landscape construction analysis capacity.

TEACHING METHODOLOGY

It's focused on the constructive analysis of the landscape construction in order to learn how to build it and sharpen the professional skills of those who work already on landscape projects. This analysis will lead to express graphically existing and new landscape construction solutions.

Workshop: The student has to contribute weekly with landscape construction work to be discussed and reflected successively, throughout the workshop till the final submission. It lasts 14h.

Theoretical classes: the themes to build the landscape, under an environmental point of view, are explained in class to be used in the workshop or in the future.

The duration of the teaching hours is 14h.

An equivalent dedication of the workshop plus the theoretical sessions is foreseen to be provided of private work by the student.

LEARNING OBJECTIVES OF THE SUBJECT

The aim of the course is to provide the tools and resources required to build a landscape project according to the environmental, mechanical, physical and human requirements in each case. At the end of the course the student recognizes and knows how to represent landscape construction project.

Therefore, the skills acquired will provide students with the ability to develop a landscape project using the tools learned during the course.

In the case of landscapers, the goal is to deep into knowledges and sharpen skills to build the landscape with specific works which enhance their professional development.

STUDY LOAD

Type	Hours	Percentage
Hours large group	22,5	100.00

Total learning time: 22.5 h

CONTENTS

LANDSCAPE CONSTRUCTION. Resilient landscape construction.

Description:

1. Soil mechanics: physical, mechanical and environmental properties of the terrain. intervention on the ground.
2. Surfaces and perimeters: dimensioning, access mechanisms and mechanical and environmental properties.
3. Water as infrastructure in the landscape. Strategies for climate change mitigation and related construction systems.
4. Environmental properties that allow walkability. Related construction systems.
5. Plant strategies and construction systems.
6. Economy and resource management.

Specific objectives:

- Method of analysis and reflection that will be shown works. These contribute to the subsequent projects desing.
- Construction scales.
- The final work will make it possible to create a collective database that will help decision-making to establish constructive resources in projects design.

Related activities:

Depending on the class rythm: visits, conferences and landscape construction projects analysis.

Full-or-part-time: 28h

Practical classes: 28h



GRADING SYSTEM

It's a continuous training and an on-going assessment.

The evaluation will conclude with an exam and the final workshop submission at the end of the semester .

The exam will count a 35% and the final workshop a 65%.

Continuous assessment

Continuous assessment will be based on the work carried out by the student during the academic year, through the submission of assignments or the performance of written and/or oral tests, according to the criteria and timetable established.

Final assessment

If the continuous assessment is not positive, a second assessment may be carried out, which will consist of a final overall test in the established methodology according to the criteria of the lecturer in charge (written or oral test and/or submission of assignments).

Telematic continuous assessment

In online teaching situations, continuous assessment will be carried out synchronously and asynchronously, by the methods established by the University and the School, with a periodic record of academic activity by submitting assignments, forums, questionnaires or any other means provided by the Atenea platform, or the alternative tools provided to the teaching staff. In situations in which this telematic teaching takes place when face-to-face teaching has already begun, or for non-academic reasons, any alterations to the weightings or regular teaching control systems will be communicated in detail to all students on the Atenea platform for every subject.

Final telematic assessment

If the continuous telematic assessment is not positive, a second assessment may be carried out consisting of a final overall test in telematic format to be established in accordance with the criteria of the lecturers in charge and the ICT resources and tools provided by the University or the School. The measures for adapting to distance teaching will be implemented in accordance with ICT security and personal data protection criteria to ensure compliance as regards Personal Data

Protection legislation (RGPD and LOPDGDD).

EXAMINATION RULES.

There will be two intermediate submissions to control the evolution of the works.

They will conclude with a final submission.

BIBLIOGRAPHY

Basic:

- a+t núm. 35-36: Strategy public. Vitoria: a+t ediciones: Colegio Oficial de Arquitectos Vasco-Navarro, 2010.
- Pérez, M^a del M. Construcción sostenible de espacio público [on line]. Barcelona: Iniciativa Digital Politècnica, 2015 [Consultation: 07/10/2020]. Available on: <http://hdl.handle.net/2099.3/36868>. ISBN 9788498805161.
- " Strategy and tactics in public space". a+t. núm. 37, 2011.
- Tectónica núm. 30: Espacios exteriores [on line]. Madrid: ATC ediciones, 2009 [Consultation: 07/10/2020]. Available on: <http://www.tectonica-online.com> (Accés restringit a usuaris UPC).
- Paisa: revista de paisajismo = landscape architecture review. Valencia: Paisa Revista, 2007-.
- Alabern, E. Execució, inspecció i control de les obres d'urbanització. Barcelona: Generalitat de Catalunya. Direcció General d'Urbanisme, 1987. ISBN 9788425223150.
- González, J. Ll.. Les claus per a construir l'arquitectura. 2a ed. rev. conforme al CTE. Barcelona: Generalitat de Catalunya, Departament de Política Territorial i Obres Públiques : Gustavo Gili, 2009. ISBN 9788425218682.
- Construir el paisaje: materiales, técnicas y componentes estructurales. Basel: Birkhäuser, 2011. ISBN 9783034606943.

RESOURCES

Other resources:

INTRANET

<https://atenea.upc.edu/moodle/login/index>