



COURSE DESCRIPTION

Environmental design

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: ARCHITECTURE AND HERITAGE (P53)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U4010 - DESIGN STUDIO FOR LANDSCAPE
MODULE: U4102 - Environmental design
CHANNEL: A-Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 4

REQUIRED PRELIMINARY COURSES

- 1- Design Studio for Urban heritage
- 2 - Integrated course of Heritage Management

PREREQUISITES

none

LEARNING GOALS

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Expected learning outcomes are identified in the adoption, by means of studies, analyses, visits and digital investigations regarding an integrated outline of environmental processes, both anthropic and natural, of such a methodology as mainly aimed at regeneration, reclamation and upgrading of landscape patterns, with particular reference to social and eco-systemic requirements of the place. The study of natural, climatic, morphological and vegetation phenomena, framed within the existing cultural processes which indicate the dynamic presence of

both nature and man, is aimed at providing the students with a consciousness and ability for developing a deep sustainable and bioregionalist project within anthropized and often decayed areas.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Through taught classes, seminars, active meetings and exercises the student can interpret and comprehend technological and environmental topics mainly linked to the completion aspects of the landscape project, also according to the use of methodologies and strategies of environmental safeguard, of natural and cultural heritage protection, and can consider its twine with the other disciplines which participate to the environmental design.

Applying knowledge and understanding

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The student develops the ability of interpreting and then gradually defining, in detail, both in theory and practical terms, the technological and environmental aspects of landscape, in the knowledge as well as the design stages.

COURSE CONTENT/SYLLABUS

The contents of this course there will be then articulated according to four different fields:

- 1. The comprehension of the technological culture, basic for studying the eco-systems integrated with the cultural and anthropized landscape, both according to architects' and scholars' thought, and according to the requirement-performance standard which governs the selection of technologies suitable for completing the landscape regeneration, and finally, last but not least, on the base of the needed answer to the ecological transition;*
- 2. The study of the elements which define the landscape from the natural as well as cultural point of view, i.e. climatic, vegetation, pedological and morphological factors which characterize the place.*
- 3. The research of such materials and technologies presently available on the scenario of European building market, handcrafted, industrial and digital, appropriate to answer to the emergencies of sustainability and safety.*
- 4. The adoption of the fundamental principles of environmental design for a complex anthropized and decayed landscape which will be suitable for its regeneration.*

READINGS/BIBLIOGRAPHY

READINGS/BIBLIOGRAPHY AND WEB SITES

Francese D. (2016), Technologies for Sustainable Urban Design and Bioregionalist Regeneration, Routledge, Francis and Taylor, London.

AAVV (2016) Building a circular future, Danish Architectural Press, Copenhagen.

Carson R. (1963) Silent spring, Penguin, (2000) London.

Wackernagel M., Rees William (1995) Our Ecological Footprint: Reducing Human Impact on the Earth, The new catalyst, Bioregional series, USA

Buoninconti L., (2019) Solar Analysis for a sustainable Architecture regeneration. In: De Joanna et al., Sustainable Architecture for Healthcare facilities, SMC Special issue n.2, Lucianoeditore Napoli

<http://www.sustainablemediterraneanconstruction.eu>

TEACHING METHODS OF THE COURSE (OR MODULE)

TEACHING METHODS

Taught classes, seminars, active meetings and exercises

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- Written
- Oral
- Project discussion
- Other

In case of a written exam, questions refer to

- Multiple choice answers
- Open answers
- Numerical exercises

b) Evaluation pattern

Evaluation pattern:

The final score, according to the outcomes and the abilities demonstrated in the discussion about the design processing as well as about the subjects and drawings from the various modules, will be weighted upon the CFU of each teaching module and thus so assembled: Landscape design 20%; Integrated conservation and landscape protection 20%; Territorial and landscape planning 20%; Environmental design 20%; Landscape architecture 20%.