



UNIVERSIDADE LUSÍADA
LISBOA

Course Unit Program
Environmental Sustainability

Academic Year 2024/2025

1. Organic Unit

Faculty of Architecture and Arts

2. Course

Architecture

3. Cycle

1st

4. Course Unit

Environmental Sustainability (01333)

5. Scientific Area

6. Curricular Year

3rd

7. Type of Curricular Unit / Semester

2nd Semester



UNIVERSIDADE LUSÍADA
LISBOA

8. Class type and workload (work time)

Theoretical classes:

Practical classes:

Theoretical-Practical Classes 30,00

Tutorial Guidance:

9. ECTS Credits

2,00

10. Scientific Area Coordinator

Prof^a Doutora Arqt^a MARIA DE JESUS MENDES CARVALHO

11. Regent

Prof^a Doutora Arqt^a ANDREIA MARIA BIANCHI AIRES DE CARVALHO GALVÃ

12. Assistants

13. Teaching Language

Portuguese

14. General Objectives

Framing the dynamics of territorial transformation according to the paradigm of sustainable development; understanding the importance of the study of landscape and environmental quality in the disciplinary areas of Architecture and Urban Planning; understanding the importance of sustainable construction and developing a sense of citizenship.

15. Specific Objectives

Situate properly the importance of the discipline in the context of training in architecture;
Understand the scope of the concept of sustainable development in its application to architecture, urbanism and regional planning; Understand and use the fundamental references of landscape ecology; Recognize the main environmental risks arising from land use and building, justifying the maintenance of reserves.

16. Skills to be acquired

It is intended to:

- Define the concept of sustainable development;
- Trace the historical path of the sustainable development paradigm;
- Identify the signs of paradigm shift in socio-economic development;
- Proceed adequately to the reading of the landscape;
- Recognize the main environmental problems, and its importance for the conscious act of occupying the soil and building
- Use the basic references of landscape ecology in urban design.



UNIVERSIDADE LUSÍADA
LISBOA

17. Teaching Methodology

Multimedia sessions in conference, debate and individual and group work mode will be privileged. Thematic lectures with invited specialists will be organized.

18. Course Unit Program

MODULE 1: Landscape Ecology

- Concepts of territory and landscape;
- Landscape units
- Tools for reading and representing the territory;
- Landscape Design
- Landscape, preservation and planning of the national territory
- Strategies for intervention in the territory and landscape from the analysis of case studies;

MODULE 2: spatial planning and strategic reserves

- Restrictions on land use
- National Agricultural Reserve (RAN)
- National Ecological Reserve (REN)
- Coastal Zone Management Plan (POOC)

MODULE 3: sustainable construction

- Traditional construction and sustainability.
- Renewable energies in architecture and construction.
- Sustainable construction. Ecological buildings

19. Assessment Methods

Central aspects of assessment: Attendance, contribution to enriching the lesson, quality of work, creativity and methodological in solving new problems, mastery of syllabus.

The assessment is carried out in two tests.

20. Didactic Resources

The following teaching resources will be used:

Computers with internet access; Specialized bibliography available at the media library and UL library.

21. Sustainability Objectives

Ensure equal access to quality technical, professional and cultural education.

Substantially increase the number of young people and adults with relevant qualifications, including technical and professional skills, for employment, decent work and entrepreneurship.

Call for the good management of resources, bearing in mind that sustainability means ensuring the needs of the present without compromising those of the future.

Recycle, reduce and recover, whenever possible, materials and other c

22. Keywords

Environment
Sustainability
Landscape
Citizenship



UNIVERSIDADE LUSÍADA
LISBOA

23. Main Bibliography

Author(s): Fadigas, Leonel
Title: Fundamentos Ambientais do Ordenamento do Território e da Paisagem
Edition: 1.^a Year: 2011
Local: Lisboa
Publisher: Edições Sílabo.

Author(s): Magalhães, Manuela Raposo
Title: A Arquitetura Paisagista. Morfologia e complexidade
Edition: 1.^a Year: 2001
Local: Lisboa
Publisher: Editorial Estampa.

Author(s): Amado M., Reaes A., Alcaface, Ana
Title: Construção Sustentável: Conceito e Prática
Edition: 1.^a Year: 2015
Local: Casal de Câmara
Publisher: Caleidoscópio

24. Complementary Bibliography

Author(s): AAVV
Title: Arquitetura Popular em Portugal
Edition: 1.^o Year: 2004
Local: Lisboa
Publisher: Ordem dos Arquitectos

Author(s): Telles, Gonçalo Ribeiro
Title: Textos Escolhidos
Edition: 1.^a Year: 2016
Local: Lisboa
Publisher: Edições Argumentum



UNIVERSIDADE LUSÍADA
LISBOA

Ficha técnica MIP / MIP Datasheet	
Título / Title	Course Unit Program 'AMBIENTE E SUSTENTABILIDADE': Academic Year 2024/2025
Autor / Author	Profª Doutora Arqtª MARIA DE JESUS MENDES CARVALHO
Classificação / Classification	-
Descritores / Descriptors	-
Colaborador(es) / Colaborator(s)	-
Data Hora / Date Time	
Formato de dados / Data Format	Texto / Text, PDF
Estatuto de utilização / Usage	Acesso público / Public Access
Relação / Relation	Version 1,0
(c) Universidade Lusíada, 2024	