

LANDSCAPE PLANNING – MUNICIPAL LEVEL (OTNM) (Código UC: 1616)

Degree: 2nd cycle – Landscape Architecture
Curricular Year: 1º Semester: 2º

Academic year 2021/2022

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Scientific coordinator: Prof. Pedro Arsénio

Professors: Prof. Pedro Arsénio (arseniop@isa.ulisboa.pt), Prof. Selma Pena (selmapena@isa.ulisboa.pt)

1. Contact hours:

Lectures: 28 (2h/semana)
Theoretical-practice: 28 (2h/semana)
Studio: 42 (3h/semana)

2. Schedule:

Lectures – Monday 13h15, Herbário (Prof. Selma Pena)
Theoretical-practice – Monday 14h00 to 16h00, Herbário (Prof. Pedro Arsénio)
Studio – Monday 16h00 to 19h00, Sala Universia (Prof. Pedro Arsénio)

3. Objectives:

The content of this subject is the sequence of Landscape Planning – natural sub-system (1st cycle – 6th semester). Together these two subjects have the goal of preparing students for design intervention on the landscape, between the scales 1/25000 and 1/2000, in the perspective of environmental planning. In terms of the existing Portuguese planning system, the intervention corresponds to the Landscape Planning Municipal Plans (PDM, PU, PP).

4. Program:

On theoretical classes the cultural, formal and political-administrative components of landscape planning are approached, namely the urban and rural landscape conception theory in the several periods, with the emphasis in the post-modern and contemporary times. After an introduction with the conductive thread of the hermeneutic of the landscape's conception, made by the lecturer, each student studies an author, presents it and then there is a critical debate about the various authors. The legal instruments of Territorial Planning are studied - Legal Regime of Urbanization and Building (RJUE), Legal Regime of Territorial Management Instruments (RJIGT) and complementary legislation.

- The conception of urban and rural landscape in pre-modernism
- Conception of urban and rural landscape in modernism
- The design of urban and rural landscape in post-modernism
- The current methodologies of landscape design - planning by structures/systems in urban landscape (Ecological network, water cycle, soil conservation, reduction of flood risk by Landscape planning)
- The current methodologies of landscape design - planning by structures/systems in rural landscape (Ecological network, Water Cycle, Soil Conservation, fire risk reduction by Landscape planning)
- Soft mobility strategies in urban landscape
- Landscape planning in Sustainable Development Goals and Ecosystem Services
- The legal instruments of Landscape planning
- Discussion, critical approach, reflection on texts and films (round table)

In theoretical-practical classes the municipal study started in "O.T. - natural subsystem" (1st cycle) is continued, with the development of the Concept of Intervention at scales 1/25000, 1/10000 and 1/2000 and criticism of the PDM in force. The theoretical-practical classes begin with a theoretical framework given by the teacher on the work to be developed in practice and a group discussion of methodologies and strategies to apply.

In the practical/studio classes, intervention proposals are studied at a scale of 1/25000 (PDM), 1/10000 (PU), in groups, and developed individually at a scale of 1/2000 (PP). The work is developed in GIS and in sketch.

5. Bibliography

Main:

- Magalhães, M. R., 2001, *A Arquitectura Paisagista - morfologia e complexidade*. Editorial Estampa, Lisboa.
- Magalhães, M. R., Abreu, M.M., Lousã, M., Cortez, N., 2007, *Estrutura Ecológica da Paisagem. Conceitos e Delimitação – Escalas Regional e Municipal*, ISAPress, Lisboa.
- Magalhães, M. R. (coord), 2013. *Estrutura Ecológica Nacional. Uma proposta de delimitação e regulamentação*. ISAPress, ISBN: 978-972-8669-53-9.
- Magalhães, M. R. (coord), 2016. *Ordem Ecológica e Desenvolvimento. O Futuro do Território Português*. ISAPress, ISBN: 978-972-8669-64-5.
- Girof, C., Imhof, D., 2017. *Thinking the Contemporary Landscape*. Princeton Architectural Press, New York.

Complementar:

- Choay, F., 1965, *L'urbanisme, utopies et réalités*, Éditions du Seuil, Paris.
- Cunha, N.S., Magalhães, M. R., Domingos, T., Abreu, M. M., Withing, K. (2018). The land morphology concept and mapping method and its application to mainland Portugal, *Geoderma*, 325: 72-89. [Doi: 10.1016/j.geoderma.2018.03.018]
- Cunha, N.S., Magalhães, M. R. (2019). Methodology for mapping the national ecological network to mainland Portugal: A planning tool towards a green infrastructure, *Ecological Indicators* 104C: 802-818. [Doi: 10.1016/j.ecolind.2019.04.050]
- Lamas, J., 1992, *Morfologia Urbana e Desenho da Cidade*, Textos Universitários de CSH, Fundação Calouste Gulbenkian/ Junta Nacional de Investigação Científica e Tecnológica, Lisboa.
- Magalhães, M.R., Batista, F.O., Cunha, N., Müller, A, Pena, S.B., Silva, J., Leitão, M., 2012. O Ordenamento do Território na Prevenção dos Incêndios Rurais in Tedim, F. , Paton D. (eds), 2012. A dimensão humana dos incêndios florestais pp 55-99. *Estratégias Criativas*, Porto
- Mollison, B., 1988, *Permaculture. A Designers' Manual*, Tagari Publications, Australia
- Molchanov, A. A., *Hidrologia Florestal*, 1963, Fundação Calouste Gulbenkian, Lisboa, 1971
- Pena, S.B., Magalhães, M.M., Abreu, M.M., 2018. Mapping headwater systems using a HS-GIS model. An application to landscape structure and land use planning in Portugal. *Land Use Policy* 71: 543-553. DOI: 10.1016/j.landusepol.2017.11.009
- Pena, S.B., Abreu, M.M., Magalhães, M.M., 2016. Planning landscape with water infiltration. Empirical model to assess maximum infiltration areas in Mediterranean Landscapes. *Water Resources Management* 30: 2343-2360. DOI:10.1007/s11269-016-1291-0.
- Pena, S.B., Abreu, M.M., Magalhães, M.R., Cortez, N., 2019. Water erosion aspects of land degradation neutrality to Landscape Planning Tools at National Scale. *Geoderma*
- Pregill, P.; Volkman, N., 1993, *Landscapes in history. Design and planning in the Western tradition*. Van Nostrand Reinhold, New York.
- Ragon, M., 1986, *Histoire de l'architecture et de l'urbanisme modernes*. Vol.1-3. Éditions du Seuil, Paris.

6. Evaluation

Assessment with a continuous component (paragraph b) paragraph 4 of the General Rules of knowledge assessment)

Frequency: The frequency is obtained by the following:

- a) Review and presentation of a book
(the book is chosen by the student and accepted by prof. Selma Pena - see Appendix)

Evaluations:

- a) Exam - 50%.
- b) Presentation and critical review of a book - 10%.
- c) Presentations of the different phases of the practical work - 40%.

Minimum mark in all components - 10

7. Hours of attendance for students:

Prof. Selma Pena: Friday from 10am-11am (send email to arrange)
Prof. Pedro Arsénio: to be confirmed in practical class

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8. Presentation/Evaluation Schedule

February		March		April		May		June
-	-	7		4		2	Theoretical - Delivery of written reviews	Delivery of individual practical work scale 1:2000 (1st date of examination) Theoretical Exam (According to examination dates to be announced)
-	-	14		11		9	Presentations Theoretical 7 books 2nd Prat. Practical 1:10000 scale	
21		21		18	Easter vacations	16	Presentations Theoretical 7 books	
28	Carnival - break	28	1st pr. Practice 1:25000 scale	25	Holiday	23	Presentations Theoretical 7 books	

Practice:

- **March 28:** presentation and delivery of the work developed at 1:25000 scale: intervention concept; intervention proposal and critique of the current PDM.
- **09th May:** presentation of the Image Plan, proposal (1:10000)
- **1st exam date:** delivery of individual work developed at scale 1:2000 (selection of area in the case study)

Theoretical:

- **May 09, 16 and 23:** book presentation by registration
- **by May 02:** delivery of the critical review, maximum 5 pages
- During the lecture classes it is foreseen to develop several works of critical analysis of texts

Appendix - Book list

(Indicative only, each student must make his choice based on the consultation of books in bookstore/library architecture/urbanism sections, with 1st edition after 1940)

1. Non-places, Marc Augé
2. Atmosferas, Peter Zumthor
3. Elogio da Sombra, Junikito Tarizaki
4. A Invenção da Paisagem, Anne Cauquelin
5. A Arquitectura da Cidade, Aldo Rossi
6. Da organização do Espaço, Fernando Távora
7. Projecto e Utopia, Manfredo Tafuri
8. Genius Loci, Norberg Schulz
9. Antropologia do Espaço, Filomena Silvano
10. A Sociedade do Espectáculo, Guy Debord
11. A Fenomenologia, Lyotard
12. A cidade, Massimo Cacciari
13. A Cidade e o Urbanismo, Jean-Paul Lacaze
14. A Imagem da Cidade, Kevin Lynch
15. Arte e Técnica, Lewis Mumford
16. A Ideia Construída, Campos Baeta
17. A Paisagem Urbana, Gordon Cullen
18. O significado da Cidade, Carlo Aymonino
19. Território da Arquitectura, Vittorio Gregotti
20. Novos Princípios do Urbanismo, François Ascher
21. O espaço limite – produção e recepção em arquitectura, Jorge Cruz Pinto
22. Imaginar a evidência, Álvaro Siza Vieira
23. Tempos Hipermodernos, Gilles Lipovetsky e Sébastien Charles
24. Urbanismo Contemporâneo, Hans Maubach
25. A Era do Vazio, Gilles Lipovetsky
26. Architecture and Disjunction, Bernard Tschumi
27. Introdução ao Pensamento Complexo, Edgar Morin
28. O Pós-Modernismo explicado às crianças, Jean-François Lyotard
29. A cidade e o arquitecto, Benevolo
30. Do Tempo da Paisagem, Henrique Pereira dos Santos
31. Arquitectura e Design, ecologia e ética, Victor Papanek
32. The New Ecological Order, Luc Ferry
33. A Revolução de Uma Palha, Masanobu Fukuoka