



## Study Plan

**School:** School of Sciences and Technology

**Degree:** Master

**Course:** Landscape Architecture (cód. 635)

### 1st Year - 1st Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO9163	Visual Studies	Visual Arts	3.5	Semester	91
PAO9164	Landscape Planning I	Landscape Arts and Techniques	11.5	Semester	299
ERU9165	Geographical Information Systems	Rural Engineering	2.5	Semester	65
PAO9166	Landscape Aesthetics	Philosophy	2.5	Semester	65
PAO9167	Landscape Design I	Landscape Arts and Techniques	10	Semester	260

### 1st Year - 2nd Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO9169	Landscape Design II	Landscape Arts and Techniques	10	Semester	260
PAO9170	Landscape Planning II	Landscape Arts and Techniques	11.5	Semester	299
PAO9168	Landscape Ethic	Philosophy	2.5	Semester	65

### Options

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO9579	Contemporaneity and Landscape Architecture	Landscape Arts and Techniques	3.5	Semester	91
PAO9580	Rehabilitation of Landscape Heritage	Landscape Arts and Techniques	3.5	Semester	91
PAO9581	Discourse and Practices on the Use of Vegetation in Landscape Architecture	Landscape Arts and Techniques	3.5	Semester	91
PAO12246	Studio I	Landscape Arts and Techniques	6	Semester	156
PAO12247	Studio II	Landscape Arts and Techniques	6	Semester	156
PAO10626	Environmental Assessment	Environment and Ecology Sciences	3	Semester	78
PAO10622	Geobotanics	Environment and Ecology Sciences	6	Semester	156
PAO12248	Planning and Management of Ecological Systems	Environment and Ecology Sciences	6	Semester	156
Free Option					

### 2nd Year - 3rd Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO9171	Seminar in Landscape Architecture	Landscape Arts and Techniques	7.5	Semester	195



## 2nd Year - 3rd Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
<b>Options</b>					
Component code	Name	Scientific Area Field	ECTS	Duration	Hours
PAO9579	Contemporaneity and Landscape Architecture	Landscape Arts and Techniques	3.5	Semester	91
PAO9580	Rehabilitation of Landscape Heritage	Landscape Arts and Techniques	3.5	Semester	91
PAO9581	Discourse and Practices on the Use of Vegetation in Landscape Architecture	Landscape Arts and Techniques	3.5	Semester	91
PAO12246	Studio I	Landscape Arts and Techniques	6	Semester	156
PAO12247	Studio II	Landscape Arts and Techniques	6	Semester	156
PAO10626	Environmental Assessment	Environment and Ecology Sciences	3	Semester	78
PAO10622	Geobotanics	Environment and Ecology Sciences	6	Semester	156
PAO12248	Planning and Management of Ecological Systems	Environment and Ecology Sciences	6	Semester	156
Free Option					
Dissertation					
Project Work					
Report					

## 2nd Year - 4th Semester

Component code	Name	Scientific Area Field	ECTS	Duration	Hours
Dissertation					
Project Work					
Report					

## Conditions for obtaining the Degree:

\*\*\* TRANSLATE ME: Para conclusão do curso é necessário a aprovação (através de avaliação ou creditação) das seguintes unidades curriculares:

1.º Ano

1.º Semestre:

5 UC obrigatórias num total de 30 Ects

2.º Semestre:

3 UC obrigatórias num total de 24 Ects

UC optativa conforme Opção 1 do quadro n.º 4 num total de 6 ECT

2.º Ano

3.º Semestre:

1 UC obrigatórias num total de 7.5 Ects

UC optativa conforme Opção 2 do quadro n.º 4 num total de 6 ECT

Para obtenção do grau, é necessário também a aprovação na Dissertação, Relatório de Estágio ou Trabalho de Projecto, com um total de 45 ECTS, no 3.º e 4.º Semestre. \*\*\*

## Program Contents



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### **Visual Studies (PAO9163)**

Landscape as a theme for introduction to the XIX century

- A passion for nature, the painter as a "traveler"
- The first-avant-garde.
- The revolution of the Pop Art
- The change of paradigm in the late '60s.
- Environmental and Land-art works
- New-media

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### **Landscape Planning I (PAO9164)**

The land use planning and management process Planning theories and their evolution Connections between land use and landscape planning in Portugal

The biophysical component

Legislation, directives, regulations, conventions

The disturbance of the Portuguese territory: present reasons, determinant factors, perspectives

The peculiar role of landscape architects in land use and landscape planning

Mod I Legal and administrative framework International and conceptual framework: the concept of sustainability; the current and the new paradigm; a program for the future - the ethical domain Integrated policies.

Mod II Effects of agriculture and forestry policies Changes in rural landscapes The role of the agricultural and forestry activities

Mod III The regional economy theory The regional dynamics, reorganization and reformation of local and regional territories The national system of regional policy and different policies of land use planning EU regional policy

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### **Geographical Information Systems (ERU9165)**

1. The project and the key issues to resolve.
2. Project methodology.
3. Project data.
4. Analysis and discussion of the project results.
5. Project analysis and evaluation.
6. Project presentation and communication

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### **Landscape Aesthetics (PAO9166)**

Aesthetics of Nature - The two unlimited 3rd Kantian Critique: a reflective way "without end" of the beautiful, the sublime inform and misshapen. The aesthetic sense as "free play of faculties" of the subject and the beauty of nature as a promise of reconciliation. Phenomenology of aesthetic space: the "image space" (J. Gil) and the "twist" Visible / Invisible (Merleau-Ponty) from Cézanne's to Kurosawa. The dialectic and irreducibility of beautiful natural and artistic beauty (T. Adorno). The beauty of the landscape as a vital experience. The aesthetics of materiality and experience of the landscape as opposed to artistic aesthetic.

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### **Landscape Design I (PAO9167)**



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### **Landscape Design II (PAO9169)**

Design for an open space

Development to the level of project implementation, encompassing drawings and written parts: general plan

modulation of the ground

planimetric-altimetric plan

floor plan

drainage plan

irrigation plan

planting plans

lighting plan

urban equipment

construction details

Descriptive and justification document, specifications of work bill of quantities, budget, maintenance plan, security and health plan

Will emphasize techniques and methods of intervention in the landscape

modeling of terrain

volume of land calculations

planimetric and altimetric implementation

understanding of local and its context in order to establish a sustainable network of drainage

building materials, properties, applications, suitability

implementation of various strata of vegetation Selection, distribution and planting of appropriate species

design and construction details - terraces, stairs, ramps, walls

proper preparation of a descriptive document, specifications, measurements, budgets

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### **Landscape Planning II (PAO9170)**

Landscape Planning - Case studies (with distinct context and scale) developed by different groups of students. The proposals, based on predefined aims, will be presented and discussed by all groups, with comments and assessment by the teaching staff.

Module I - The landscape as resource for tourism. Artificial landscape builds by tourism. The view of tourist and landscape visual consumption.

Module II - Agents and dynamics of urban change. The national urban system. Territorial dynamics. Urban regulations and urban policies in Portugal, futures perspectives.

Module III - Natural resources significance in the different socioeconomic perspectives. Individual utilities and welfare economy. Traditional and non-traditional perspectives of evolution. Sustainable economic development and its integration with environment.

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### **Landscape Ethic (PAO9168)**

Cultural traditions and notions of nature and environment.

1. The old cosmos and chaotic harmony between the human microcosm and the cosmic totality. Ethics, aesthetics, law and natural religion, the pre-Socratics to Lucretius.

2. The medieval Mundus: the sacred, matter and human, from S. Agostinho to Buridan. The limits of ecumenical and imaginary loci.

3. The modern Universus, from the Renaissance to the nineteenth century; from Utopia to the domain of nature. The emergence of applied sciences and technical transformation of reality.

4. The contemporary environment: The ecological consequences of technology and emergence of the cyberworld. Global urbanization and the climate change. The contemporary environmental ethics, economic development and sustainability, the possibility of a new paradigm: from dominance towards respect and responsibility and its limitations. An ethics for the contemporary landscape, the ethics of contemplation.



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### **Contemporaneity and Landscape Architecture (PAO9579)**

Contextualization in time and space, of speech and practice of landscape architecture.

Theoretical and practical answer that the Landscape Architecture offers to current issues, including:

- Homogenization versus uniqueness
- Landscapes of consumption versus sustainable landscapes; consumption scenery versus enjoyment of the landscape
- Compression of time and space versus evolutionary progression; temporality artificial versus natural temporality
- Individual versus community; private space versus public space; intolerance versus inclusiveness
- Fragmentation versus continuity

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### **Rehabilitation of Landscape Heritage (PAO9580)**

- The cultural, phenomenological and aesthetics dimension of the landscape features.

- The landscape as cultural representation: the landscapes of production and protection, the symbolic and the pleasure landscape. Conceptual and typological spaces of landscape with heritage value. These contents will be offered according to the following themes:

- The Identity dimension of the landscape
- Landscape Heritage dimension (Cultural and Natural)
- Recovery of Landscapes
- Evolution of concepts
- Dangers that threaten the integrity of historic gardens
- Philosophy and methodology of recovery of historic gardens
- Presentation and discussion of case - study.
- National and international legal framework

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### **Discourse and Practices on the Use of Vegetation in Landscape Architecture (PAO9581)**

The return to an ecological discourse in landscape architecture has determined a new way of planting design theory and practice. Some authors as Piet Oudolf, de Michel Desvigne, Gille Clément Adriasan Geuze , Michel Courajoud, James Corner as the landscape design proposed to the landfill of Fresh Kills (James Corner) and to the Governor's Island, New York.

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### **Studio I (PAO12246)**

1. Landscape design methodology, the place and landscape design program, project strategy, typologies and landscape design characteristics;
2. Relationship between the functional organization, physical setting and global structure (natural and cultural) : spaces, paths and edges; vegetation, topography, water and inert elements;
3. Instruments of design: freehand sketch, technical draw, model, oral communication and poster.

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### **Studio II (PAO12247)**

Characterization and synthesis of the landscape structure and morphology through the identification of its biographical components: ecologic basis (hydrologic, geomorphologic, bioclimatic and vegetation system, agricultural and forestry capacity, land use capacity) cultural basis, socio-affective and historical basis (policies, ideologies, technologies, emotional experiences, signs. . . ).



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### **Environmental Assessment (PAO10626)**

1. The concepts of environmental assessment - environmental concept, evaluation concept - the cycle of project, planning and management
2. The environmental assessment concept in the frame of the sustainability concept - environmental assessment as a process of internalisation of environmental costs
3. EIA legal framework: national and EU legislation. Other national models, Relations with the planning and permit processes..
4. EIA phases: screening, scoping, reference situation, impact evaluation and mitigation, Environmental Impact Declaration, post evaluation (monitoring and auditing) Public participation
5. Impact evaluation and prediction methodologies, Universes of impact, Impact aggregation. EIA methodologies and mitigation methodologies.
6. Certification and auditing
7. Risk analysis. Outrage
8. Main types of environmental impacts.
9. Impacts on flora, fauna, vegetation and habitats.

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### **Geobotanics (PAO10622)**

Ecological factors that influence the adaptation and distribution of plants and phytocoenosis  
Bioclimatology and Biogeography  
Methods to study vegetation (phytosociological methodology) and analysis of plant communities  
Landscape (Phytosociology Integrated): Series and Geoseries  
Conservation and Management of the Vegetation Heritage  
Applied phytosociology  
Recovery of degraded areas: particular case-studies

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### **Planning and Management of Ecological Systems (PAO12248)**

#### **MANAGEMENT PROCESSES FOR ECOLOGICAL SYSTEMS**

The processes of management; organization / administration; Planning; Project; Implementation, Maintenance, monitoring, education and public involvement

#### **MANAGEMENT OF AREAS WITH ECOLOGICAL SIGNIFICANCE**

The management concept in areas with ecological interest; notion of sustainable development, NATURA 2000, National system of protected areas

#### **MODELS OF ECOLOGICAL SYSTEMS MANAGEMENT**

Environmental management plans, evaluation criteria in protected areas (rarity, diversity, fragility, stability, cultural, planning and management framework) buffer areas, management by fire and grazing, ecological corridors, definition of core areas for conservation, floristic values, ability to regenerate gradients of equilibrium, disturbance risks, factors of risk (fire, invasion).

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### **Seminar in Landscape Architecture (PAO9171)**

New areas of reflection, new interdisciplinary approaches, new interpretations of the landscape and the complex web of relationships that open up other fields of knowledge.