



## 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 |
|----------------|----------------------------------|-------------------------------|------|----------|-------|
| PAO09163M      | Visual Studies                   | Visual Arts                   | 3.5  | Semester | 91    |
| PAO09164M      | Landscape Planning I             | Landscape Arts and Techniques | 11.5 | Semester | 299   |
| ERU09165M      | Geographical Information Systems | Rural Engineering             | 2.5  | Semester | 65    |
| PAO09166M      | Landscape Aesthetics             | Philosophy                    | 2.5  | Semester | 65    |
| PAO09167M      | Landscape Design I               | Landscape Arts and Techniques | 10   | Semester | 260   |

### 1st Year - 2nd Semester

| Component code | Name                  | Scientific Area Field                               | ECTS | Duration | Hours |
|----------------|-----------------------|---|------|----------|-------|
| PAO09169M      | Landscape Design II   | Landscape Arts and Techniques                       | 10   | Semester | 260   |
| PAO09170M      | Landscape Planning II | Landscape Arts and Techniques<br>Economy Socio-logy | 11.5 | Semester | 299   |
| PAO09168M      | Landscape Ethic       | Philosophy  | 2.5  | Semester | 65    |

### Options

| Component code | Name  | Scientific Area Field            | ECTS | Duration | Hours |
|----------------|---|----------------------------------|------|----------|-------|
| PAO09579M      | Contemporaneity and Landscape Architecture                                | Landscape Arts and Techniques    | 3.5  | Semester | 91    |
| PAO09580M      | Rehabilitation of Landscape Heritage                                      | Landscape Arts and Techniques    | 3.5  | Semester | 91    |
| PAO09581M      | Discourse and Pratices on the Use of Vegetation in Landscape Architecture | Landscape Arts and Techniques    | 3.5  | Semester | 91    |
| PAO12246M      | Studio I  | Landscape Arts and Techniques    | 6    | Semester | 156   |
| PAO12247M      | Studio II   | Landscape Arts and Techniques    | 6    | Semester | 156   |
| PAO10626M      | Environmental Assessment  | Environment and Ecology Sciences | 3    | Semester | 78    |
| PAO10622M      | Geobotanics   | Environment and Ecology Sciences | 6    | Semester | 156   |
| PAO12248M      | 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 |
|----------------|-----------------------------------|-------------------------------|------|----------|-------|
| PAO09171M      | 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 |
| PAO09579M      | Contemporaneity and Landscape Architecture                                 | Landscape Arts and Techniques    | 3.5  | Semester | 91    |
| PAO09580M      | Rehabilitation of Landscape Heritage                                       | Landscape Arts and Techniques    | 3.5  | Semester | 91    |
| PAO09581M      | Discourse and Practices on the Use of Vegetation in Landscape Architecture | Landscape Arts and Techniques    | 3.5  | Semester | 91    |
| PAO12246M      | Studio I   | Landscape Arts and Techniques    | 6    | Semester | 156   |
| PAO12247M      | Studio II  | Landscape Arts and Techniques    | 6    | Semester | 156   |
| PAO10626M      | Environmental Assessment   | Environment and Ecology Sciences | 3    | Semester | 78    |
| PAO10622M      | Geobotanics  | Environment and Ecology Sciences | 6    | Semester | 156   |
| PAO12248M      | 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 (PAO09163M)**



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**Landscape Planning I (PAO09164M)**

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**Geographical Information Systems (ERU09165M)**

- 1 - Project objectives and key issues to resolve. {\}
2. Methodology of the project. {\}
3. Project data. {\}
4. Analysis and discussion of project results. {\}
4. Analyze and evaluate the rigor associated with the project. {\}
5. Presentation of the project.

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**Landscape Aesthetics (PAO09166M)**

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**Landscape Design I (PAO09167M)**

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**Landscape Design II (PAO09169M)**

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**Landscape Planning II (PAO09170M)**

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**Landscape Ethic (PAO09168M)**

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**Contemporaneity and Landscape Architecture (PAO09579M)**



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### **Rehabilitation of Landscape Heritage (PAO09580M)**

- 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 (PAO09581M)**

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### **Studio I (PAO12246M)**

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 (PAO12247M)**

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 (PAO10626M)**

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 (PAO10622M)**

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 (PAO12248M)**

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 (PAO09171M)**