

LANDSCAPE ARCHITECTURE
(HORTICULTURE, III th Year of study, V th Semester)

Credit value (ECTS): 5

Course category: mandatory

Course holder: PhD, Lecturer Roberto Renato BERNARDIS

Discipline objectives (course and practical works)

- Theoretical and practical knowledge of the green spaces design and improvement, knowledge of the ornamental trees and shrubs species as regards the morphology, ecology, culture technology, knowledge and proper use of the dendrologic species used in the landscape architecture field.
- Knowledge and proper use of the specific notions of landscape architecture.
- To understand the execution modalities of a green space improvement project.
- To be able to execute a green space improvement project.
- To draw up complete and correct documentations relative to the green spaces improvement.

Contents (syllabus)

Course (chapters/subchapters)
1. Definition, object, goal, connection to other sciences, importance of the course teaching
2. Concepts evolution in gardens architecture
3. The Romanian gardens.
4. Distribution, dimensioning and organization of green spaces
5. Design and composition basic notions and general principles in the gardens architecture
6. Component elements of the landscape improvements
7. Decorative and functional constructions within the green spaces
8. Technical and urbanistic installations in parks and gardens
9. Traffic in parks and gardens.
10. Dendrologic vegetation in parks and gardens Improvement of the sodded and flower surfaces.
11. Lay-out of and organization of the green spaces sites

Practical works
1. Research and analysis of the land where the project is to be implemented
2. Green spaces design principles
3. Styles of the landscape architecture
4. Types of green spaces.
5. Entries and exists
6. Characterization and design of the urban and peri-urban green spaces
7. Lay-out of the roads and alleys of the parks and gardens
8. Water design in parks and gardens.
9. Fundamental principles of the vegetation design in parks and gardens
10. Design of the compositional centers and of the perspective axes.
11. Association of the trees and shrubs species in the composition of the green spaces.
12. Vegetation on water banks
13. Design of the flower improvement and sodded surfaces
14. Design of the ornamental and utilitarian elements in parks and gardens.

Project
1. Theme of the landscape architecture project. Land plan.
2. Study of natural conditions. Land position. Study of the geological, geomorphological, pedological and hydrological conditions.

Execution of the design and improvement sketches
3. Execution of the design and improvement sketches. Study of the social and economic conditions.
4. Execution of the design and improvement sketches. Improvement justification.
5. Locality size. Material possibilities of execution. Vegetation.
6. Justification report. Justification of the design principles and solutions
7. Justification report. Justification of the proposed vegetation
8. Technical and economical calculus. List of the necessary materials.
9. Foundation and maintenance estimate.
10. Execution of the design and improvement sketches (I).
11. Execution of the design and improvement sketches (II).

Bibliography

1. **Bernardis R., 2010** - *Arboricultură ornamentală. Vol.1.* Editura „Ion Ionescu de la Brad”, Iași.
2. **Bernardis R., 2011** - *Arboricultură ornamentală. Vol.2.* Editura „Ion Ionescu de la Brad”, Iași.
3. **Bernardis R., 2012** - *Arboricultură ornamentală. Vol.3.* Editura „Ion Ionescu de la Brad”, Iași.
4. **Iliescu Ana-Felicia, 2001** - Îndrumător pentru inițierea în proiectarea peisagistică, USAMV, București.
5. **Mitrea Vasile, 2000** - *Peisagistica*, Curs. Editura Universității Tehnice, Cluj-Napoca.
6. **Preda M., Palade L., 1972** - *Arhitectura peisajului.* Editura Ceres București.
7. **Sandu Tatiana, 2013** – *Arhitectura peisajului. Lucrări practice.* Editura “Ion Ionescu de la Brad”, Iasi.
8. **Simonds I.O., 1967**- *Arhitectura peisajului,* Editura Tehnică București,.
9. **Sonea V., Palade L., Iliescu Ana-Felicia, 1979** - *Arboricultură ornamentală și arhitectură peisageră.* Edit. Didactică și Pedagogică București.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Exam	80 %
	presence	10 %
Practical works	tests + cours and practical	10 %
Project	colloquy	100 %

Contact

PhD, Lecturer Roberto Renato BERNARDIS

Faculty of Horticulture - USAMV Iași

Aleea Mihail Sadoveanu nr. 3, Iași, 700490, Romania

Tel: 0040232407, fax: 0040 232 219175

E-mail: roberto_bernardis@uaiasi.ro