

RESTORATION AND REHABILITATION OF LANDSCAPE (LANDSCAPE IVth year, 7th semester)

Credit value (ECTS): 5

Course category:

Domain discipline (**mandatory**)

Course holder:

Assist. PhD PA CU ROXANA

Discipline objectives (course and practical works)

Knowledge and proper use of the legislation in the field, but also of the landscape morphological elements, in light of the principles of landscape restoration and rehabilitation.

Development of the skills of analysis and correct interpretation of some situations existing in cases of landscape restoration or rehabilitation.

Knowledge, analysis and interpretation of certain styles, genres and landscape effects in landscape restoration or rehabilitation situations.

Knowledge of the necessary information for the analysis, processing and correct introduction of the landscape elements in the existing historical sites, and understanding the applicative-ecological importance that the landscape restorations have in the urban and territorial framework.

Developing and using the aesthetic sense and the sense of perception for choosing and applying the most relevant landscape rehabilitation or restoration solutions.

Explaining the stylistic and functional relationships, as well as their influence on the necessary landscape restoration or rehabilitation solutions.

Contents (syllabus)

Course (chapters/subchapters)
1. General intercorrelated principles of architectural, urban and landscape restoration and rehabilitation.
Introduction, generalized interconnected notions of restoration and architectural, urban and landscape rehabilitation.
General principles used for the analysis and interpretation of styles, genres and landscape effects.
2. Analysis of the architectural, urban and territorial heritage.
Correlation of heritage elements.
Analysis of architectural, urban and landscape heritage. Networking.
Comparative analysis of some elements of the history of restoration and rehabilitation.
3. Landscape restoration / rehabilitation of the historical centers of the cities.
Landscape restoration / rehabilitation of plant elements in living areas.
Landscape restoration / rehabilitation of degraded industrial areas and urban peripheries.
4. The role of landscape restoration in the protection and conservation of the urban environment.
New landscape trends for the protection and restoration of the plant environment from urban sites.

Practical works
Case studies of the new landscape tendencies of protection and restoration of the natural environment from urban sites and from the territory.
Applications - analysis of a landscape restoration project in a historical center.
Applications - analysis of a project of landscape restoration / rehabilitation project in the residential area.
Applications - analysis of a project for landscape restoration / rehabilitation projects in industrial and peripheral areas.
Project sketch - analysis of a degraded, existing site; choosing suitable landscape solutions for rehabilitation.

Bibliography

1. **Bridgewater A., Bridgewater Gill, 2004** - *Brickwork for the garden*. Silverdale Books, Leicester.
2. **Brooks J., 1993** - *Garden Planning*. Ed. Prentice Hall Pocket Enciclopedia, Canada.
3. **Claire Marie, 2008** - *Gr dini ingenioase - 60 de planuri u or de realizat*. Ed. House of Guides, Bucure ti.
4. **Cnudde C., Harotin J. J., 1990** - *Pierre et marbres de Wallonie*. Ed. AAM, Bruxelles.
5. **Dasc lu Doina Mira, 2016** – *Proiectarea Peisagistic* . Ed. Ion Ionescu de la Brad, Ia i.
6. **Draghia Lucia, Chelariu Elena-Liliana, 2015**- *Floricultur* . Ed.“Ion Ionescu de la Brad”, Ia i.
7. **Gavin D., 2004** - *Design your garden*. DK Publishing, New York.
8. **Ketchell R., 2006** - *Japanese gardens in a weekend*. Bounty Books, London.
9. **Robinson P., 2004** - *Ponds Basics*. Bounty Books, London.
10. **Rottle Nancy, Yocom K., 2010** - *Ecological design*. Ava Publishing, USA and Singapore.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Written and oral evaluation	60%+10%
Seminar/laboratory	Practice of using information sources, preparing and presenting reports	30%

Contact

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RESTORATION AND REHABILITATION OF LANDSCAPE (LANDSCAPE IVth year, 8th semester)

Credit value (ECTS): 5

Course category:

Domain discipline (**mandatory**)

Course holder:

Assist. PhD PA CU ROXANA

Discipline objectives (course and practical works)

Knowledge and proper use of the concepts related to landscape restoration and rehabilitation for their use in landscape construction.

The transmission of information on the theoretical elements and the practice of the practical elements of restoration and rehabilitation, have the purpose of acquiring the students knowledge about the current methods and technologies used in landscape restoration and rehabilitation. At the same time, the study of the current methods of drawing up the situation plans and solving the different problems found at the analyzed sites was also pursued.

The practical works have the role of ensuring the students' acquisition of the skills regarding the knowledge and the proper use of the specific notions of restoration of the vegetal elements within a site. The knowledge and use of the documentation for the evaluation of the degradation status of the analyzed sites, but also of the vegetal elements, are considered to be fundamental for establishing the intervention mode for the rehabilitation or restoration of the site.

The project application deals with the practical solution of the processing of the primary data from the analysis and the field measurements under the following aspects: drawing up the existing situation plan; the calculation of the surfaces and the representation of the terrain relief, the elaboration of a site analysis and the realization of a solution for its rehabilitation or restoration based on it.

Contents (syllabus)

Course (chapters/subchapters)
Introduction, general notions intercorrelated of restoration and rehabilitation of the vegetal elements within the arrangements: the main works of rehabilitation and maintenance that apply to the constituent elements of the green spaces; the technique of performing the cutting works for restoration or conservation of ornamental trees and shrubs.
Methods of restoration and conservation of ornamental trees and shrubs: rehabilitation of trees by treating wounds according to their origin and category; restoration and conservation cuts that apply to conifers; conservation cuts that apply to hardwood trees in street alignments and park alleyways.
Restoration pruning applied to trees and shrubs found in the regression period from public spaces: conservation cuts that apply to ornamental plants planted solitary, in groups or masses, living fences, deciduous and resinous decorative plants covering the soil and vines.
Fertilization of ornamental trees and shrubs for their rehabilitation and conservation: basic and phase fertilization; methods, times, quantities, frequency; the requirements of ornamental species with regard to nutrients; applying fertilization according to the type of soil on which the plant is placed (rich, poor, hard, light); the morphological type of root; the radius on which the roots are spread to the trunk of the plant; the organ through which the plant decorates: leaves, flowers, fruits; how to administer the fertilizers and their methods of incorporation into the soil.

Practical works
Basic rules for the execution of rehabilitation pruning of the vegetal elements: pinching the lateral shoots on the trunk; cutting the lateral shoots from the trunk; cutting (pinching) the shoots from the crowns; cutting young branches up to 2 cm in diameter; cutting thick branches up to 10 cm in diameter and those over 10 cm in diameter.
Conservation and management cuts that apply to species of the Rosa genus: relief, ventilation, thinning or cleaning cuts; cuts of balancing and maintaining a harmonious growth and development; cuts of rejuvenation, extension of plant life.
Project
Preparation and realization of the existing situation plan: carrying out measurements at the site level, identifying the existing plant material and its location within the plan, analyzing the existing situation by identifying strengths, weaknesses, opportunities but also threats existing at the time of the analysis. .
Establishing an estimate of the existing situation: calculation of the built surfaces, of the surfaces with dendrological / floral species and of the surfaces with lawn, the determination of the species and the age of the dendrological plants located at the site level.
Drawing up and drafting a restoration / rehabilitation project for the studied site: making plans with the proposal of rehabilitation / restoration, accompanied by a justifying memoir, a quotation of materials and execution details.

Bibliography

1. **Bernardis R., 2012** – *Arboricultur ornamental* , Vol. I i II, Ed. “Ion Ionescu de la Brad”, Ia i.
2. **Curinschi Vorona, 1996** - *Arhitectur Urbanism Restaurare*, Ed. Tehnic , Bucure ti,
3. **Dasc lu Doina Mira, 2016** – *Proiectarea Peisagistic* . Ed. Ion Ionescu de la Brad, Ia i.
4. **Dasc lu Doina Mira, 2006** - *Mediul înconjur tor i evolu ia a ez rilor umane interferen e*. Editura Socet ii Academice ‘Matei Teiu Botez’, Ia i.
5. **Horeanu C., Barbu I., 2005** - *Dendrologie*, Editura Universit ții Suceava, Suceava.
6. **Iliescu Ana Felicia, 2003** - *Arhitectur peisager* . Editura Ceres, Bucure ti.
7. **Stanciu N., 2006** - *Obtaining an annual varietal converyer of ornamental shrubs for the parks of the precapathian aria of Muntenia*. Editura Academicpress Cluj Buletinul USAMV Cluj-Napoca, Volumul 63.
8. **Sandu Tatiana, 2009** - *Arboricultura ornamentala*, Ed. “Ion Ionescu de la Brad”, Ia i.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Written and oral evaluation	70%+30%
Project	Project presentation and seminar attendance	70%+30%

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