

## Structures and materials in landscape (1st YEAR OF STUDY, 1st SEMESTER)

**Credit value (ECTS): 7**

**Course category:**

Domain discipline (required)

**Course holder:**

**Andrei Slonovschi PhD, Lecturer**

### **Discipline objectives (course and practical works)**

The discipline pursue the theoretical and practical training in the field of ecological materials and elements in landscape, satisfying the need to deepen the knowledge of composition of construction materials and understanding of the details of execution of landscaping facilities.

### **Contents of the discipline (analytical program)**

<b>Course (chapters/subchapters)</b>
<b>CHAPTER 1. Buildings materials.</b> Types: Classification: Technique and technologies of execution
<b>CHAPTER 2. Building materials used in landscaping.</b> Clay: Wood: Brick, Metal, Stone, Concrete.
<b>CHAPTER 3. Structures used in ecological landscaping facilities.</b> Pergolas, porticos, canopies and pavilions
<b>CHAPTER 4. Construction details for concrete, stone and brick construction.</b> Construction details for concrete construction: Construction details for stone construction: Construction details for brick construction

<b>Practical works</b>
Analysis of ecological construction materials and polluting
Analysis of ecological structures
Analysis of details of concrete, stones and brick structures.

### **Bibliography**

1. Bridgewater A., Gill, 2004 - Brickwork for the garden, Silverdale Books, Leicester;
2. Brookes J., 2006 - Small Garden, DK Publishing, New York;
3. Ciornei Al., 2006 - Ingineria clădirilor, Editura Junimea, Iasi;
4. Ching Francis D. K., 1995 - A Visual Dictionary of Architecture, John wWiley& Sons Inc.;
5. Crișan Rodica, 2012 - Construcții din zidărie și beton armat. Editura universitară Ion Mincu;
6. Crișan Roodica, 2012 - Construcții din lemn. Editura Universitară Ion Mincu;
7. Crișan Rodica, 2003 - Construcții din oțel. Editura Universitară Ion Mincu;
8. Diarmuid G., 2004 - Design your garden, DK Publishing, New York;
9. Hessayon D.C., 2005 - Expert în amenajarea propriei grădini, Ed. Bic All, București;
10. Iliescu Ana Felicia, Costea Gabriela, Dumitrașcu Monica, 2001 - Îndrumător pentru inițierea în proiectare în peisagistică, USAMV București, Facultatea de Horticultură;
11. Naumann G.V., 2006 - Amenajarea micilor grădini, Ed Aquila, Oradea.

12. Osmundson Th., 2005 - Roof Gardens, Ed. Tectum, Antwerp;
13. Robinson N., 1992 - The Planning Design Handbook, Gower;
14. Robinson P., 2004 - Ponds Basics, Bounty Books, London.

### **Evaluation**

<b>Evaluation form</b>	<b>Evaluation Methods</b>	<b>Percentage of the final grade</b>
Written exam	Knowledge and understanding of the concepts contained in the course	70%
Practical works	portfolio of works (reports, scientific summaries)	30%

### **Contact**

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## Structures and materials in landscape (1st YEAR OF STUDY, 2st SEMESTER)

**Credit value (ECTS): 7**

**Course category:**

Domain discipline (required)

**Course holder:**

**Andrei Slonovschi PhD, Lecturer**

### **Discipline objectives (course and practical works)**

The discipline pursue the theoretical and practical training in the field of ecological materials and elements in landscape, satisfying the need to deepen the knowledge of composition of construction materials and understanding of the details of execution.

### **Contents of the discipline (analytical program)**

<b>Course (chapters/subchapters)</b>
<b>CHAPTER 1. Construction details for wood, metal, glass and earth constructions.</b> Construction details for wood, constructions: Construction details for metal constructions. Construction details for glass constructions: Construction details for earth constructions
<b>CHAPTER 2 Decorative basins and other water facilities.</b> Types: Constructive details.
<b>CHAPTER 3. Utility, decorative and multifunctional landscape construction used in public spaces.</b> Types: Constructive details.

<b>Practical works</b>
Constructive details for construction of wood, metal, glass and earth
Documentation on the type of decorative basins and artesian fountains. Choosing and representing a decorative basin in steps in plan, elevation, section, axonometric plotting and technical details (Scale 1:20).

### **Bibliography**

1. Bridgewater A., Gill, 2004 - Brickwork for the garden, Silverdale Books, Leicester;
2. Brookes J., 2006 - Small Garden, DK Publishing, New York;
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6. Crișan Roodica, 2012 - Construcții din lemn. Editura Universitară Ion Mincu;
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