

## DISCIPLINE DESCRIPTION

### 1. Information on the study programme

1.1 Academic institution	<b>UNIVERSITY OF ORADEA</b>
1.2 Faculty	<b>FACULTY OF ENVIRONMENTAL PROTECTION</b>
1.3 Department	<b>AGRICULTURE - HORTICULTURE</b>
1.4 Field of study	<b>HORTICULTURE</b>
1.5 Cycle of study	<b>BACHELOR</b>
1.6 Study programme/Qualification	<b>LANDSCAPE PAINTING/ ENGINEER</b>

### 2. Information on the discipline

2.1 Name of discipline	<b>CONSTRUCTION MATERIALS IN LANDSCAPE</b>						
2.2 Course holder	STANCIU ALINA ŞTEFANIA						
2.3 Seminar/Laboratory/Project holder	STANCIU ALINA ŞTEFANIA						
2.4 Year of study	II	2.5 Semester	4	2.6 Type of evaluation	Ex	2.7 Regime of discipline	I

(C) Compulsory; (O) Optional; (E) Elective

### 3. Total estimate time (hours per semester of didactic activities)

3.1 Number of hours per week	4	out of which: 3.2 course	2	out of which 3.3 seminar/laboratory/project	
3.4 Total hours in the curriculum	5 6	out of which: 3.5 course	28	out of which 3.6 seminar/laboratory/project	
Time allotment					hours
Study assisted by manual, course support, bibliography and notes					60
Additional documentation in the library/ on specialised electronic platforms and in the field					60
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					50
Tutorship					6
Examinations					2
Other activities.....					18
<b>3.7 Total hours of individual study</b>	<b>196</b>				
<b>3.9 Total hours per semester</b>	<b>56</b>				
<b>3.10 Number of credits</b>	<b>4</b>				

### 4. Prerequisites (where appropriate)

4.1 curriculum	(Conditioning) floriculture, arboriculture, landscape design, landscape representations, shape study
4.2 competences	Knowledge of the principles used in landscaping, of the styles and genres encountered in landscaping, of flowering plants and dendrofloric material,

	etc.
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### 5. Conditions (where appropriate)

5.1. related to course	Lecture, video overhead projector, laptop
5.2. related to seminar/laboratory/ project	Lecture, video overhead projector, laptop

### 6. Specific competences acquired

Professional competences	<p>C1.Elaboration and implementation of integrated horticultural technologies for obtaining quality horticultural products, organization and coordination of production processes</p> <ul style="list-style-type: none"> <li>• Diagnosis and management of problems related to the organization and management of horticultural products</li> </ul> <p>C1.1 Description of the scientific, theoretical and practical foundations that underlie the elaboration and implementation of the principles and elements of design and composition</p> <p>C1.2 Explaining the need to use different technological links, correlated with environmental factors and with the requirements of cultivated plants; explaining and interpreting the interrelationships between horticultural production and spatial planning systems adapted to the environment</p> <p>C1.3. Differentiated and efficient application of concepts, elements, techniques and tools specific to integrated landscaping technologies, corresponding to the particularities of the horticultural ecosystem and the type of horticultural product obtained</p> <ul style="list-style-type: none"> <li>• Providing consulting and extension services in horticulture and landscaping</li> </ul>
Transversal competences	<p>CT1.Elaboration and observance of a work program and accomplishment of one's own attributions with professionalism and rigor</p> <p>CT2.Application of efficient communication techniques in specific teamwork activities; assuming a role within the team and respecting the principles of the division of labor</p> <p>CT3. Objective self-assessment of the need for continuous professional training in order to constantly adapt and respond to the demands of economic development; the use of information and communication techniques and, at least, of an international language</p>

### 7. Objectives of discipline (coming from the specific competences acquired)

7.1 General objective	Knowledge of design principles and elements and presentation of solutions for design, execution and operation of landscaping
7.2 Specific objectives	Knowledge and presentation of solutions for design, execution and operation of landscaping. Elaboration of spatial planning plans, general plans, basic plans, situation plans, calculation of the degree of land occupation and the acquisition by students of a specialized language.

### 8. Content\*/

8.1 Course	Methods of teaching	No. of hours/Remarks
1. Introduction, the goal and content of the course, determining factors in the conception and composition of constructions	Free teaching, projection with video projector, Power Point presentations	2
2.The component parts of the constructions, the urban and rural systematization, the object of the	Free teaching, projection with video projector, Power Point presentations	2

systematization, the characteristics of the urban and rural settlements		
3.Spatial planning plans, general plans, basic plans, situation plans, land use calculation	Free teaching, projection with video projector, Power Point presentations	2
4. Wood - construction material used in landscaping	Free teaching, projection with video projector, Power Point presentations	2
5.Concrete - construction material used in landscaping	Free teaching, projection with video projector, Power Point presentations	2
6.Natural stone - construction material used in landscaping	Free teaching, projection with video projector, Power Point presentations	2
7.Mortar - construction material used for finishing	Free teaching, projection with video projector, Power Point presentations	2
8.Mineral binders - plaster, lime, cement used to obtain composite materials	Free teaching, projection with video projector, Power Point presentations	2
9. Metal, glass materials used in landscaping.	Free teaching, projection with video projector, Power Point presentations	2
10.Ceramic materials, thermal and waterproofing materials used in landscaping.	Free teaching, projection with video projector, Power Point presentations	2
11.Bituminous binders, bituminous emulsions used to finish roads and alleys	Free teaching, projection with video projector, Power Point presentations	2
12.Materials for cladding, finishing, painting, interior and exterior painters	Free teaching, projection with video projector, Power Point presentations	2
13.Terrace type roof. Frame roof. Green roofs	Free teaching, projection with video projector, Power Point presentations	2
14.Wooden constructions: gazebo, pergola, bridges, fences	Free teaching, projection with video projector, Power Point presentations	2
<i>Bibliography</i>		
<i>1.BERAR T. – Construcții și drumuri forestiere, Editura Orizonturi Universitare, 2005;</i>		

2. BERAR T. – *Elemente de construcții civile, industriale, agricole și forestiere, Editura Orizonturi Universitare, 2005;*
3. BERAR T. - *Construcții civile, industriale, agricole, Editura Mirton, 2002;*
4. BOB C. – *Materiale de construcții, EDP, București, 1982;*
5. TUDOR D. - *Construcții civile, industriale, agricole, IPT, Timișoara, 1986;*
6. NEGOIȚĂ AL. – *Construcții civile, EDP, București, 1976;*
7. GÂDEANU E. – *Clădiri industriale, IPT, Timișoara, 1986;*
8. BORZA I. – *Instalații pentru construcții, IPT, Timișoara, 1996;*
9. PĂUNESCU M. – *Fundații, IPT, Timișoara, 1970;*
10. IONAȘCU GH. – *Exploatare, transporturi și construcții forestiere, Editura Ceres, București, 1988;*
11. IONAȘCU GH. – *Transporturi forestiere, Universitatea Brașov, 1995.*

8.2 Seminar	Methods of teaching	No. of hours/ Remarks
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8.3 Laboratory		
1. Presentation of construction materials	Power point presentations, drawings. Study of a landscaping project	1
2. Mortar - construction material used for finishing	Power point presentations, drawings. Study of a landscaping project	1
3. Metallic materials used for landscaping	Power point presentations, drawings. Study of a landscaping project	1
4. Glass materials used in landscaping	Power point presentations, drawings. Study of a landscaping project	1
5. Ceramic materials used for landscaping.	Power point presentations, drawings. Study of a landscaping project	1
6. Sound, thermal and waterproofing materials used for landscaping	Power point presentations, drawings. Study of a landscaping project	1
7. Bituminous binders, bituminous emulsions used to finish roads and alleys	Power point presentations, drawings. Study of a landscaping project	1
8. Materials for cladding, finishing, painting, interior and exterior painters	Power point presentations, drawings. Study of a landscaping project	2
9. Foundation systems. Preparatory works for the execution of foundations	Power point presentations, drawings. Study of a landscaping project	1
10. Masonry structures. Masonry execution technology	Power point presentations, drawings. Study of a landscaping project	1
11. Determining the hardness of some materials	Power point presentations, drawings. Study of a landscaping project	1
12. Determination of wood moisture	Power point presentations, drawings. Study of a landscaping project	1

13. Testing the acquired knowledge.	Power point presentations, drawings. Study of a landscaping project	1
8.4 Project	-	-
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<p><i>Bibliography</i></p> <p>1. BERAR T. – <i>Construcții și drumuri forestiere, Editura Orizonturi Universitare, 2005;</i></p> <p>2. BERAR T. – <i>Elemente de construcții civile, industriale, agricole și forestiere, Editura Orizonturi Universitare, 2005;</i></p> <p>3. BERAR T. - <i>Construcții civile, industriale, agricole, Editura Mirton, 2002;</i></p> <p>4. BOB C. – <i>Materiale de construcții, EDP, București, 1982;</i></p> <p>5. TUDOR D. - <i>Construcții civile, industriale, agricole, IPT, Timișoara, 1986;</i></p> <p>6. NEGOIȚĂ AL. – <i>Construcții civile, EDP, București, 1976;</i></p> <p>7. GÂDEANU E. – <i>Clădiri industriale, IPT, Timișoara, 1986;</i></p> <p>8. BORZA I. – <i>Instalații pentru construcții, IPT, Timișoara, 1996;</i></p> <p>9. PĂUNESCU M. – <i>Fundații, IPT, Timișoara, 1970;</i></p> <p>10. IONAȘCU GH. – <i>Exploatare, transporturi și construcții forestiere, Editura Ceres, București, 1988;</i></p> <p>11. IONAȘCU GH. – <i>Transporturi forestiere, Universitatea Brașov, 1995.</i></p>		

\* The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.

**9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme**

<ul style="list-style-type: none"> <li>The content of the course and laboratory works was adapted based on the knowledge and skills necessary to be included in the specific activities required by potential employers, enterprises, economic actors, professional associations. Similar in the country and meet the requirements formulated by the institutions with the character of coordination, guidance, research or landscaping.</li> </ul>
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**10. Evaluation**

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	Explaining the need to use different technological links, correlated with environmental factors and the requirements of cultivated plants; explaining and interpreting the interrelationships between horticultural production and spatial planning systems	Oral exam, with the required answer to at least 2 questions from the exam ticket	70%

	adapted to the environment		
10.5 Seminar	-	-	-
10.6 Laboratory	Differentiated and efficient application of concepts, elements, techniques and tools specific to integrated landscaping technologies, corresponding to the particularities of the horticultural ecosystem and the type of horticultural product obtained	Discussion, compositional analysis of a landscaping project	30%
10.7 Project			
10.8 Minimum standard of performance			
Description of the scientific, theoretical and practical foundations, which are the basis for the elaboration and implementation of the principles and elements of design and composition			

Date of completion

Signature of course holder\*\*

Signature of seminar  
laboratory/project holder \*\*

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Date of approval in the department

Signature of the Head of Department

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\*\* - Name, first name, academic degree and contact details (e-mail, web page, etc.) will be specified.

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