



No. \_\_\_\_\_ of \_\_\_\_\_

USAMV form 0109020101 (discipline code)

## SUBJECT OUTLINE

### 1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca
1.2. Faculty	Agriculture
1.3. Department	Plant culture
1.4. Field of study	Agronomic
1.5. Cycle of study <sup>1</sup>	Master
1.6. Specialization/ Study programme	Management of Natural and Ago-turistic Resources in the Mountain area
1.7. Form of education	IF

### 2. Information on the discipline

2.1. Discipline name		Landscape and biodiversity						
2.2. Course coordinator				Lecturer RUSDEA EVELYN				
2.3. Seminar/ laboratory/ project coordinator				Lecturer RUSDEA EVELYN				
2.4. Year of study	II	2.5. Semester	1	2.6. Evaluation type	sumative	2.7. Discipline status	Content <sup>2</sup>	DD
							Compulsoriness <sup>3</sup>	DI

### 3. Total estimated time (teaching hours per semester)

3.1. Hours per week - full time programme	4	out of which: 3.2. lecture	2	3.3. seminar/ laboratory/ project	2
3.4. Total number of hours in the curriculum	56	out of which: 3.5. lecture	28	3.6. seminar/ laboratory	28
Distribution of the time allotted					hours
3.4.1. Study based on books, textbooks, bibliography and notes					40
3.4.2. Additional documentation in the library, electronic platforms and field experiences					30
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					15
3.4.4. Tutorials					20
3.4.5. Examinations					15
3.4.6. Other activities					4
3.7. Total hours of individual study	124				
3.8. Total hours per semester	180				
3.9. Number of credits <sup>4</sup>	6				

### 4. Prerequisites (if applicable)

4.1. curriculum-related	General ecology, Bioclimatology, Nature conservation, Biodiversity conservation, Phytosociology, Systematic botany
4.2. skills-related	The student must have knowledge regarding the functioning of ecosystems and agroecosystems, biodiversity assessment

### 5. Conditions (if applicable)

5.1. for the course	The course is held in plenary and is interactive. Students may intervene during the teaching of the topic with questions or examples on the topic of discussion. The time
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	<p>allotted to the course is strictly adhered to, the students being prohibited from any other activities that are not related to the subject of the course (eg the use of mobile phones).</p> <p>The course begins with questions and discussions from the previously taught topic and ends with a brief recap of the topic presented in the current course..No other activities are tolerated during the lecture, mobile phones should be closed</p>
5.2. for the seminar/ laboratory/ project	Laboratory work is carried out in groups. The knowledge that students have to acquire is based on heuristic methods, based on previous knowledge, landscape and climate change being a synthetic discipline. The material basis of the faculty represents the practical support for understanding the study methodology. Conversation, oral presentation, video and video projection, slides, slides, field visits, etc. is the basis of the methodology of active teaching and learning.

**Note: In the case of online teaching, the teaching methods are adapted to the online conditions and platforms used.**

## 6. Cumulated specific competences

Professional competences	<ul style="list-style-type: none"> <li>- ☑ recognition of the type of landscape</li> <li>- ☑ recognition of specific landscape elements</li> <li>- ☑ the recognition of the categories of use</li> <li>- ☑ recognition of the intensity of land use</li> <li>- ☑ biodiversity assessment</li> <li>- ☑ recognition of key species and those of conservative interest</li> </ul>
Transversal competences	<ul style="list-style-type: none"> <li>- ☑ the ability to describe the cultural landscape according to the specific elements and categories of use and their integration in the development strategies of the communities</li> <li>- ☑ the ability to identify the origin of the landscape elements according to the land use history</li> <li>- ☑ the capacity to evaluate the anthropic impact on biodiversity</li> </ul>

## 7. Discipline objectives (based on the cumulated specific competences)

7.1. General objective	Study of the landscape and its component elements (biodiversity) according to the applied management
7.2. Specific objectives	<p>To know the structure of the natural and cultural landscape.</p> <p>To know biodiversity as a major component of the natural and cultural landscape.</p> <p>Understand how climate change influences landscape and biodiversity</p> <p>To understand the mechanisms of adaptation of the landscape and biodiversity to the changes</p> <p>To have the ability to understand the management of landscape and biodiversity types</p>

## 8. Content

8.1. COURSE Number of hours -28	Teaching methods	Observation
		Lecture
I. GENERAL ABOUT LANDSAFT 1. Defining the Landscape 2. Landscaping nomenclature 3. The importance of the Landscape	Lecture	1 Lecture
II. TYPES OF LANDŞAFT 1. The Natural Landscape 2. Cultural Landscape 2.1. Agricultural Landscape 2.2. The Land Pastoral	Lecture	3 Lectures
III. ELEMENTS OF AGRICULTURAL LANDSAFT AND THEIR TRAINING 1. The importance of the elements in the customization of the landscape 2. Classification of landfill elements 3. Formation of landscape elements	Lecture	2 Lectures
IV. USE OF THE LANDŞAFTULUI		



2. Johannes Müller, (2005): *Landschaftselemente aus Menschenhand – Biotope und Strukturen als Ergebnis extensiver Nutzung*, Ed. Elsevier Spektrum Akademischer Verlag, München
3. Konold W., Böcker R., Hampicke U., (2001): *Handbuch Naturschutz und Landschaftspflege*, Editura Ecomed, Bobingen

**9. Corroborating the discipline content with the expectations of the epistemic community representatives, of the professional associations and of the relevant employers in the corresponding field**

In order to identify ways of modernization and continuous improvement of the teaching and the content of the courses, with the most current topics and practical problems, the teachers participate in the annual meeting of the Romanian Society of Grasslands where they meet with the farmers, being debated current issues and perspectives. forage production in Romania and Europe

**10. Evaluation**

Type of activity	10.1. Evaluation criteria	10.2. Evaluation type	10.3. Percentage of the final grade
<b>10.4. Course</b>	The characteristics of the natural and cultural landscape Knowledge of the main elements of the landscape Knowledge of the types of management applied Knowledge of the types of biodiversity Knowledge of the methodology of biodiversity assessment Attendance at the course	summative(E)	70%
<b>10.5. Seminar/Laboratory</b>	Using satellite images Activity with the Arcview GIS program Landscaping evolution based on old and new maps Methods for studying biodiversity Conservation management plan The presence and participation in practical works. Projects, reports, participation in other scientific activities. Participation in didactic activities specific to the subject.	1 written check is provided (case study).	30%

**10.6. Minimum performance standards**

The future specialist must be able to appreciate the state of the agricultural landscape and be able to apply the knowledge acquired for their preservation and rehabilitation, in close correlation with their productivity and the flow of the substance, while preserving the biodiversity unaltered.

- 1 Cycle of studies - choose one of the three options: Bachelor/Master/Ph.D.
- 2 according to the educational plan
- 3 Discipline status (compulsoriness) - choose one of the options – **DI** (compulsory discipline) **DO** (optional discipline) **DFac** (facultative discipline).
- 4 One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Filled in on  
11.09.2020

Course coordinator  
Lecturer EVELYN RUSDEA

Laboratory work/seminar coordinator  
Lecturer EVELYN RUSDEA




Approved by the  
department on  
14.09.2020

Head of the Department  
Sef. lucr. dr. Cristina Moldovan

