

Universitatea din Oradea	PROCEDURA pentru inițierea, aprobarea, monitorizarea și evaluarea periodică a programelor de studii	COD: SEAQ PE – U. 01						
			4	5	6	7	8	9
			Aprobat în ședința de Senat din data: -- 17.09.2012					

Annex 6

DISCIPLINE DESCRIPTION

1. Information on the study programme

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

2. Information on the discipline

2.1 Name of discipline	CULTURE GRASSLAND AND FORAGE CROPS II						
2.2 Course holder	ALINA ȘTEFANIA STANCIU						
2.3 Seminar/Laboratory/Project holder	ALINA ȘTEFANIA STANCIU						
2.4 Year of study		2.5 Semester		2.6 Type of evaluation		2.7 Regime of discipline	

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

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

3.1 Number of hours per week	3	out of which: 3.2 course	2	out of which 3.3 seminar/laboratory/project	1
3.4 Total hours in the curriculum	4	out of which: 3.5 course	2	out of which 3.6 seminar/laboratory/project	14
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					60
Tutorship					24
Examinations					10
Other activities.....					10
3.7 Total hours of individual study	224				
3.9 Total hours per semester	42				
3.10 Number of credits	5				

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4. Prerequisites (where appropriate)

4.1 curriculum	Botany, Phytotechnics I, Phytotechnics II, Agrotechnics, Agrochemistry,
4.2 competences	Knowledge of fodder plants and their crop technologies

5. Conditions (where appropriate)

5.1. related to course	Lecture, video overhead projector, laptop
5.2. related to seminar/laboratory/ project	Preparation of the report, knowledge of the notions contained in the laboratory work to be carried out (synthesis material); - Carrying out all laboratory work. Determination of perennial and annual fodder plant species, identification of seeds, preparation of a green conveyer, arrangement of a natural pasture

6. Specific competences acquired

Professional competences	C 1. Elaboration of sustainable technological solutions for conventional agricultural production systems; the design of alternative production systems (organic farming) and new technologies for particular cases (land in slopes, sandy lands, land with temporary excess of humidity, etc.) C 1.3. Applying appropriate methods, techniques and procedures for customizing and optimizing sustainable agricultural production process technologies C 1.4. Qualitative and quantitative analysis of the effects of the technologies used (physico-chemical analyzes of the obtained productions, physical, chemical and biological analyzes on the environmental components that may be affected by applied agricultural technologies, the use of specific methods for assessing the impact on applied biodiversity technologies) C 2.3. Analysis and evaluation of the effectiveness of the measures applied to increase agricultural production and rural development and their impact on the environment and quality of life
Transversal competences	CT1 Elaboration and observance of a work program and accomplishment of its own attributions with professionalism and rigor CT2 Apply effective communication techniques in team-specific activities; assume a role within the team and observe the principles of division of labor CT3 Objective self-evaluation of the need for continuous professional training in order to adapt and constantly meet the demands of economic development; the use of information and communication techniques and, at least, an international language of circulation

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

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7.1 General objective	Training of students in the field of agriculture on the study of the biodiversity of ecosystems in Romania, applied technologies on natural and sown grasslands, their exploitation systems, the quality and ensilation of fodder, as well as aspects regarding the setting up and management of the lawn.
7.2 Specific objectives	The contents of the presented laboratory works are based on the need to deepen the problems presented in the course. Students have the opportunity to identify cultivated forage plants and spontaneous flora, seed determination, green convection. Knowledge is useful in forming skills to address the specific problems faced by a specialist in a feed base.

8. Content*/

8.1 Course	Methods of teaching	No. of hours/Remarks
Improvement of the trophic regime, Application of fertilizers and amendments.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Particularities of grass fertilization. Effect of application of fertilizers on meadows	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Improving the water regime. Removing excess moisture. Filling the moisture deficit	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Regeneration of vegetal carpet; Auto and over-loading.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Seed grassland set up in arable land or in the place of permanent degraded meadows.	Theoretical lectures related to the course	2

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	subject. Intercalated student contributions are requested on subject-specific subjects	
Seed grassland set up in arable land or in the place of permanent degraded meadows.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Use of meadows. Grazing methods.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Using grass meadows	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	4
Determination of the production of meadows.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Estimation of denials and weeds.	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Silage of fodder. Ensilaging process. Use of additives	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
Use of additives	Theoretical lectures related to the course	2

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	subject. Intercalated student contributions are requested on subject-specific subjects	
Types of silos. Losses recorded on silage conservation	Theoretical lectures related to the course subject. Intercalated student contributions are requested on subject-specific subjects	2
<p>Bibliography</p> <p>1. Barbulescu C., Gh. Motca, I. Puia, Al. Moisuc, 1991, <i>Cultura pajistilor si a plantelor furajere</i>, Ed. Didactica Si Pedagogica, Bucuresti.</p> <p>2. Motca Gh., I. Oancea, Lidia-Ivona Geamanu, 1994, <i>Pajistile Romaniei</i>, Ed. Tehnica Agricola Bucuresti.</p> <p>3. Rotar I., L. Carlier, 2005, <i>Cultura pajistilor</i>, Ed. Risoprint Cluj-Napoca.</p> <p>4. Stanciu Alina Ștefania, <i>Producerea furajelor – suport de curs</i>, Ed. Universității din Oradea ISBN 978-606-10-1157-5, pp. 330, 2013.</p> <p>5. Vantu V., A. Moisuc, Gh.Motca, I. Rotar, 2004, <i>Cultura pajistilor si aplantelor furajere</i>, ED. “Ion Ionescu de la Brad”.</p>		
8.2 Seminar	Methods of teaching	No. of hours/ Remarks
8.3 Laboratory		
1. Methods of qualitative analysis of vegetation. Geobotanic method. The planimetric method. The linear method. Gravimetric method.	Lecture, practical applications, use of the determinant for the identification of the studied plant species	1
2. Quantitative determination of grassland vegetation. Mowing method repeated. Method zootechnics	Lecture, practical applications, use of the determinant for the identification of the studied plant species	1
3. Formation of herb mixtures for the establishment of temporary meadows	Lecture, practical applications, use of the determinant for the identification of the studied plant species	1
4. The green conveyor. Making a project.		2

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	Lecture, practical applications, use of the determinant for the identification of the studied plant species	
5. Setting up a pasture	Lecture, practical applications, use of the determinant for the identification of the studied plant species	1
6. Determination of grassland production. Determination of grazing capacity	Lecture, practical applications, use of the determinant for the identification of the studied plant species	1
7. Determination of quality and quantity of stored feed.	Lecture, practical applications, use of the determinant for the identification of the studied plant species	2
8. Assessment of the quality of silage feed	Lecture, practical applications, use of the determinant for the identification of the studied plant species	1
9. Recognizing plants of the Gramineae and Leguminoasae family	Ground	2
10. Recognizing plants from other botanical families	Ground	2
8.4 Project		
Bibliography 1. Erdelyi St., I. Rotar, Alina-Stefania Suteu, 1994, <i>Indrumator de lucrari practice la Tehnologia producerii si conservarii furajelor</i> , Tipo Agronomia Cluj-Napoca. 2. I. Rotaru, Eugenia Chirca, 1995, <i>Cultura pajistilor si a plantelor furajere</i> , Indrumator de lucrari practice, Tipo Agronomia Cluj-Napoca.		

* 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

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- The analysis and evaluation of the effectiveness of the measures applied for the increase of the agricultural production and the rural development and their impact on the environment and the quality of life presented in this course makes it acceptable to the epistemic communities, social partners, professional associations and employers in the field of Agriculture . The content of the discipline is found in the curriculum of Agriculture and other academic centers in Romania that have accredited this specialization, so that knowledge of basic notions is an important requirement for all employers in the field.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	For Note 5: All subjects must be treated to the minimum standards; For notes >5 all subjects should be treated to the highest standards;	Written exam - duration 2 hours.	60%
10.5 Seminar			
10.6 Laboratory	During the last laboratory session the students will present the laboratory works, respectively the results obtained.	All laboratory work must be carried out, subject to examination. - Laboratory weight is 40% of the value of the exam note. - Recovering only an outstanding laboratory (in the last week of the semester)	40%
10.7 Project			
10.8 Minimum standard of performance			
Undertaking coordinated work to solve specific problems in the field, with the correct assessment of the workload, the available resources, the time required to complete and the risks, under the conditions of the application of the safety and health rules at work			

Date of completion

Signature of course holder**

Signature of seminar
laboratory/project holder **

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Date of approval in the department

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Signature of the Head of Department

Prof.PhD.eng. Bandici Gheorge Emil
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Dean signature

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

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Signature of the Head of Department***

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Dean Signature***

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*** - Name, first name, academic degree and contact details (e-mail, web page, etc.) of the academic entity beneficiary of the Discipline Outline_will be specified.

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