



No. _____ of _____

USAMV form 0109010102

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	II Plant culture
1.4. Field of study	Agronomy
1.5. Cycle of study ¹	Master
1.6. Specialization/ Study programme	Management of natural and agrotouristic resources
1.7. Form of education	Full time

2. Information on the discipline

2.1. Discipline name		Animal breeding systems in the mountain area						
2.2. Course coordinator				Phd. Lecturer Adriana Morea				
2.3. Seminar/ laboratory/ project coordinator				Phd. Lecturer Adriana Morea				
2.4. Year of study	I	2.5. Semester	II	2.6. Evaluation type	continuous	2.7. Discipline status	Content ²	DA
							Compulsoriness ³	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					50
3.4.2. Additional documentation in the library, electronic platforms and field experiences					42
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					32
3.4.4. Tutorials					20
3.4.5. Examinations					10
3.4.6. Other activities					
3.7. Total hours of individual study	154				
3.8. Total hours per semester	210				
3.9. Number of credits ⁴	7				

4. Prerequisites (if applicable)

4.1. curriculum-related	Agro-technical, Plant culture, General animal husbandry
4.2. skills-related	Biochemistry, Ecological Technologies

5. Conditions (if applicable)

5.1. for the course	It's not necessary
5.2. for the seminar/ laboratory/ project	It's not necessary

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	<p>The graduate gains new skills that widen his professional area:</p> <ul style="list-style-type: none"> - Consultant in the field of ecological zootechnics, - Inspector in inspection and certification bodies, - Researcher or teacher in the field of organic farming, including obtaining food products in conditions of environmental protection.
Transversal competences	<p>The discipline provides master's students with thorough, theoretical and practical knowledge about the ecological system for animal husbandry, the relationship between zootechnical biodiversity and food heritage, specifically for biosecurity, for the management of health status in the ecological breeding system, the characteristics of ecological food processing, the ecological requirements regarding the norms by species and also product chain.</p> <p>The discipline initiates, forms and completes (strengthens) affective relationships in relation to the wealth of natural species and varieties, develops new opinions and behaviors towards animals.</p>

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

7.1. General objective	<p>Knowing the specificity of animal breeding in the ecological system.</p> <p>Presentation of the conditions in which the conversion to the ecological zootechnics is made, the requirements regarding the feeding, sheltering, welfare of animals in the ecological system of breeding.</p> <p>The relationship between the ecological breeding system and the quality of the certified animal products.</p> <p>Legislative regulations.</p>
7.2. Specific objectives	<p>The discipline provides master's students with sound, theoretical and practical knowledge about the ecological system for animal husbandry, the relationship between zootechnical biodiversity and food heritage, the specificity of biodiversity, the management of health status in the ecological growth system, the characteristics of the processing of organic foods, the requirements regarding the ecological norms. by species and product chain.</p>

8. Content

8.1. COURSE Number of hours -	Teaching methods	Observation
Number of hours - 28 Presentation of the breeds specific to the mountain area Adequate breeding technology in the mountain area of the horses - traction and recreation Adequate breeding technology in the mountain area of pigs - meat and fat Adequate breeding technology in the mountain area of birds Adequate breeding technology in the mountain area of sheep, milk and meat Adequate breeding technology in the mountain area of cattle, milk and meat Adequate breeding technology in the mountain area of house rabbits Livestock raising in the mountain system	Lecture Lecture Lecture Lecture Lecture Lecture Lecture Lecture	1 lecture 2 lecture 2lecture 2 lecture 2 lecture 3 lecture 1 lecture 1 lecture

8.2. PRACTICAL WORKS Number of hours -	Teaching methods	Observation
Number of hours - 28 Study of morphoproductive features of horses Study of the morphoproductive properties of pigs Study of the morphoproductive properties of birds Study of morphoproductive properties of sheep Study of the morphoproductive properties of cattle Animal production on horses and the factors that influence them Animal production in pigs and the factors that influence them Animal production of birds and the factors that influence them Animal production in sheep and the factors that influence them Animal production in cattle and the factors that influence them Practical exam	Theoretical presentation	1 lab work 1 lab work 1 lab work 1 lab work 2 lab work 2 lab work 1 lab work 1 lab work 1 lab work 2 lab work 1 lab work

Compulsory bibliography:
Aldescu Teodora, 2003, *Importanța agriculturii ecologice, principia, obiective curente. Suport de curs pentru bioagricultori*
Aubert C., 1977, *L'agriculture, pourquoi et comment la pratiquer. Ed. Le Courier du Livre Paris*
Boboc Viorica, 2003, *Impactul tehnologiilor de creștere și exploatare a păsărilor în sistem ecologic și posibilități de dezvoltare a pieței produselor ecologice în România, Simp. Agricultura Ecologică – Alternativa viabilă și vocațională, DGAIA Braia 2003*
Chindriș V., Ștefca Gh. 2010, *Laptele de bivoliță-Igiena și calitatea, Ed. Risoprint, Cluj-Napoca*
Man C., Podar C., Ivan I. 2003, *Ecologia exploatării taurinelor, Ed. Academic Pres, Cluj-Napoca*
Man C., Aldescu Teodora, Bobiș A, Albert I. 2004, *Ghidul legislativ pentru agricultura ecologică, Ed. Risoprint, Cluj-Napoca*
Man C., Bobiș A, Albert I. 2004, *Tehnologii ecologice pentru creșterea și exploatarea bovinelor și porcinelor, Ed. Risoprint Cluj-Napoca*
Ștefca Gh., Tuta Gh., 2007, *Managementul alimentar-teorie și practică, Ed. Risoprint Cluj-Napoca*
Ștefca Gh., Macovescu S., 2006, *Igiena depozitării produselor de origine animal și sisteme frigorifice, Ed. Risoprint Cluj-Napoca*
1. Ștefca Gh., 2010, *Tehnologii de obținere a materiilor prime de origine animal, Ed. Risoprint Cluj-Napoca*

Optional bibliography:
Marcu N. și col. 2006, *Zootehnie general și alimentație, Ed. Digital Data, Cluj-Napoca*
Marcu N, Dărăban S., 2006, *Creșterea animalelor, Ed. Eikon, Cluj-Napoca*
Pastea și col., 1978, *Anatomia comparativă și topografică a animalelor domestic, EDP BUcurești*
Raicu E. și col, *Producția de carne și îmbunătățirea ei. Ed, Agrosilvică București*
Popescu Băran M., și col. *Aprecierea calității animalelor de carne*
Chintescu G. și col, 1968, *Prelucrarea laptelui în ferme, Ed. Agrosilvică, București*
Sârbulescu V., Stănescu V., Văcaru Opriș, Cornelia Vintilă, 1983, *Tehnologia și valorificarea produselor animale, EDP București*

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

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10. Evaluation

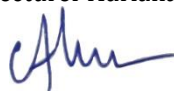
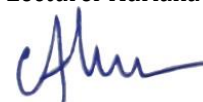
Type of activity	10.1. Evaluation criteria	10.2. Evaluation type	10.3. Percentage of the final grade
10.4. Course	To have knowledge regarding the technologies used in the modern biotechnology industry in order to increase the efficiency of the technological processes in the food industry and to make better use of plant raw materials.	continuous	
10.5. Seminar/Laboratory			
10.6. Minimum performance standards			
Mastery of scientific information transmitted through lectures and practical papers at an acceptable level. Obtaining the passing grade for the ongoing checks is a condition of promotability..			

- 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
04.09.2019

Course coordinator
Phd. Lecturer Adriana Morea

Laboratory work/seminar coordinator
Phd. Lecturer Adriana Morea

Approved by the
department on
05.09.2019

Head of the Department
Lecturer Phd. Cristina-Maria Moldovan

