



No. _____ of _____

USAMV form 0102030105

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	Bachelor
1.6. Specialization/ Study programme	Montanology
1.7. Form of education	Full time

2. Information on the discipline

2.1. Discipline name	Animal husbandry and animal nutrition 2							
2.2. Course coordinator	Phd. Lecturer Adriana Morea							
2.3. Seminar/ laboratory/ project coordinator	Phd. Lecturer Adriana Morea							
2.4. Year of study	III	2.5. Semester	II	2.6. Evaluation type	summative	2.7. Discipline status	Content ²	DS
							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					22
3.4.2. Additional documentation in the library, electronic platforms and field experiences					15
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					15
3.4.4. Tutorials					7
3.4.5. Examinations					10
3.4.6. Other activities					
3.7. Total hours of individual study	69				
3.8. Total hours per semester	125				
3.9. Number of credits ⁴	5				

4. Prerequisites (if applicable)

4.1. curriculum-related	Botany, Biochemistry, Culture of meadows and fodder plants, Anatomy and animal physiology
4.2. skills-related	The student must have knowledge regarding aspects related to the organization of the forage base in farms

5. Conditions (if applicable)

5.1. for the course	The course is interactive, students can ask questions about the content of the exhibition. The university discipline requires the observance of the start and end time of the course. No other activities are tolerated during the lecture, mobile phones should be closed.
5.2. for the seminar/ laboratory/ project	In the practical work each student will participate in the activities carried out with laboratory materials, molds, sheets, etc. Academic discipline is required throughout the duration of the work.

6. Cumulated specific competences

Professional competences	<p>Students must know the main breeds of animals, by types of production;</p> <p>Understand the technologies of pet exploitation</p> <p>To acquire the principle of establishing optimum forage technologies in order to obtain higher yields</p>
Transversal competences	<p>Students must correctly identify the species studied;</p> <p>To establish and to appreciate correctly the constitutional and morphoproductive types in the main exploited breeds;</p> <p>To participate in the research activities carried out by the team from the zootechnical discipline.</p>

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

7.1. General objective	Acquiring general notions of taxonomy, general principles and methods of breeding and maintaining the main species of domestic animals and basic knowledge regarding animal production, feed resources and animal nutrition.
7.2. Specific objectives	

8. Content

8.1. COURSE Number of hours -	Teaching methods	Observation
<p>Number of hours - 28</p> <p>Animal nutrition</p> <p>Nutritional and biological value of feed and rations</p> <p>Fodder resources</p> <p>Technology of feed preparation</p> <p>Principles of normative nutrition</p> <p>Cattle breeding technology</p> <p>Biological features of cattle</p> <p>Beef breeds</p> <p>Technology of reproduction in calves</p> <p>The technology of breeding cattle and young cattle</p> <p>Exploitation technology for milk</p> <p>Meat exploitation technology</p> <p>The technology of horse breeding</p> <p>The biological peculiarities of equines</p> <p>Horse races</p> <p>The technology of growing young and young</p> <p>Technology of breeding, breeding and exploitation of rabbits and stallions</p> <p>The technology of exploitation of horses for work</p> <p>Swine breeding technology</p> <p>Biological peculiarities of pigs.</p> <p>The main breeds of pigs.</p> <p>Reproduction technology and technology for maintaining and exploiting breeding sows and sows.</p> <p>Technology for raising piglets and young pigs.</p> <p>Technologies for fattening pigs</p> <p>Technology of sheep breeding and exploitation</p> <p>Biological peculiarities of sheep</p> <p>The main breeds of sheep raised in Romania</p> <p>Technology of sheep breeding</p> <p>Technology of sheep breeding and sheep breeding</p> <p>Technology of exploitation for milk and meat of sheep</p> <p>The technology of breeding domestic birds</p> <p>The main breeds of domestic birds.</p> <p>The technique of bird breeding.</p> <p>The main systems and technologies for the exploitation of meat and eggs of chickens</p> <p>Notions of beekeeping</p>	<p>Lecture</p> <p>Lecture</p> <p>Lecture</p> <p>Lecture</p> <p>Lecture</p> <p>Lecture</p> <p>Lecture</p> <p>Lecture</p> <p>Lecture</p>	<p>1 lecture = 2 hours</p> <p>3 lectures</p> <p>2 lecture</p> <p>2 lectures</p> <p>2 lectures</p> <p>2 lecture</p> <p>2 lectures</p>

Bee biology. The multiplication of bee families. Maintenance work for bee families throughout the year		
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8.2. PRACTICAL WORKS Number of hours -	Teaching methods	Observation
Number of hours - 28 Labor protection and P.S.I. in animal husbandry, animal approach and containment	practical works	1 lab work (2 hours/work)
The skeleton as the anatomical basis of the main body regions	practical works	2 lab work
The analytical examination of the exterior and the dynamic examination in animals	practical works	2 lab work
Appreciation of constitutional and morphoproduktive types	practical works	1 lab work
Determining the age of the main species of domestic animals	practical works	1 lab work
Colors and color features in pets	practical works	1 lab work
Marking of animals	practical works	1 lab work
The technique of artificial seeding	practical works	1 lab work
Synthetic examination of the exterior	practical works	1 lab work
Feed recognition and appreciation	practical works	1 lab work
Establishing food rules and feed rations	practical works	1 lab work
Verification of knowledge	practical works	1 lab work
<ol style="list-style-type: none"> 1. <i>Compulsory bibliography: Gherman Mariana, 2011, Zootehnie generala, Ed Risoprint Cluj-Napoca</i> 2. <i>Gherman Mariana, 2010, Zootehnie si nutritie animala, Ed. Risoprint Cluj-Napoca</i> 3. <i>Marcu N. si col. (2006) "Zootehnie generala asi alimentatie" Ed. Digital Data Cluj-Napoca</i> 4. <i>Marcu N. (2003) "Zootehnie generala" Ed. Risoprint Cluj-Napoca</i> 		
<ol style="list-style-type: none"> 1. <i>Optional bibliography: Creta V. si col. (1983) "Zootehnie generala si tehnologia cresterii animalelor" Ed. Did. si Ped. Bucuresti</i> 2. <i>Morar R. si col. (2000) "Zootehnie generala" Ed Relief</i> 3. <i>Salajan Ghe. si col. (1999) "Practica alimentatiei optimizate si bioconversia furajelor la animalele de ferma" Tipo Agronomia Cluj-Napoca</i> 4. <i>Milas M., D.Drancean (1984) "Furajele-caracteristici generale si utilizare" Ed. Ceres Bucuresti</i> 		
<i>Halga P. si col. (2002) "Alimentatie animala" Ed. Pim, Iasi</i> <i>Larbier M. si B.Leclercq (1994) "Nutritia si alimentatia pasarilor" Ed. Alutus D. Bucuresti</i>		

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 modernizing and continuously improving 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 Zootechnics, collaborate with companies such as Bioterra to explain the ecological technologies and make visits at representative farms.

10. Evaluation

Type of activity	10.1. Evaluation criteria	10.2. Evaluation type	10.3. Percentage of the final grade
10.4. Course	Students' knowledge of the notions of animal husbandry, animal breeds of fodder assortments and of the principles and technique of feeding and the technologies of breeding, breeding and exploitation of the main animal species	exam	70%
10.5. Seminar/Laboratory	Recognition of breeds of bulls, pigs, horses, sheep, birds, determination of milk fat, knowledge of egg formation and structure, laying eggs for incubator, etc.	practical exam	30%
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
Phd. Lecturer Adriana Morea

Approved by the
department on
05.09.2019



Head of the Department
Prof.dr. Marcel M. DUDA

