

University of Life Sciences "Ion Ionescu de la Brad" Iași

Faculty: Veterinary Medicine

Specialty: Veterinary Medicine

Dean,  
Prof. dr. Mihai Mareș



### SUBJECT OUTLINE

#### 1. Information on the programme

1.1. Higher education institution	University of Agricultural Sciences and Veterinary Medicine of Iași
1.2. Faculty	Veterinary Medicine
1.3. Department	VII – Fundamentals in animal sciences
1.4. Field of study	Veterinary Medicine
1.5. Cycle of study <sup>1</sup>	Bachelor and Master (unitary study programme)
1.6. Specialization/ Study programme	Veterinary Medicine
1.7. Form of education	Full time

#### 2. Information on the discipline

2.1. Name of the discipline	<b>Animal nutrition 2</b>							
2.2. Course coordinator	Univ. Prof. PhD Mircea POP							
2.3. Seminar/ laboratory/ project coordinator	Lecturer PhD Cristina RADU-RUSU							
2.4. Year of study	II	2.5. Semester	4	2.6. Type of evaluation	Colocvium	2.7. Discipline status	Content <sup>2</sup>	AP
							Compulsoriness <sup>3</sup>	CD

#### 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
<b>Distribution of the time allotted</b>					hours
3.4.1. Study based on book, textbook, bibliography and notes					28
3.4.2. Additional documentation in the library, specialized electronic platforms and field					14
3.4.3. Preparing seminars/ laboratories/ projects, subjects, reports, portfolios and essays					28
3.4.4. Tutorials					2
3.4.5. Examinations					4
3.4.6. Other activities					
3.7. Total hours of individual study	76				
3.8. Total hours per semester	90				
3.9. Number of credits <sup>4</sup>	3				

#### 4. Prerequisites (is applicable)

4.1. curriculum-related	Anatomy, Biochemistry, Physiology, Agronomy, Animal husbandry. Animal nutrition 1.
4.2. skills-related	The student must have knowledge regarding the basic concepts of anatomy, chemistry, biochemistry, physiology, animal husbandry, agronomy and animal nutrition 1.

#### 5. Conditions (if applicable)

5.1. for the lecture	The course is interactive; students can ask questions regarding the content of the presentation.
5.2. for the seminar/ laboratory/ project	At practical work is required to study the materials presented in the lectures; each student will conduct an individual activity using the laboratory materials provided. Laboratory meeting begins with a seminar having as topics the material taught in the previous courses and laboratories.

## 6. Specific competences acquired

Professional competences	<ul style="list-style-type: none"> <li>- basic skills in animal nutrition and feeding by species</li> <li>- to know the animal nutrition and feeding particularities of farm and pet species;</li> <li>- to know the nutritional value of raw materials and feeds</li> <li>- practical skills in animal feeding practice and optimization</li> </ul>
Transversal competences	<p>Development of prevention like medical thinking</p> <p>Communication skills, team work, responsibility.</p>

## 7. Course objectives (based on the list of competences acquired)

7.1. Overall course objective	<ul style="list-style-type: none"> <li>- basic skills in animal nutrition and feeding</li> <li>- knowledge of the animal nutrition and feeding particularities of farm and pet species;</li> </ul>
7.2. Specific objectives	<ul style="list-style-type: none"> <li>- to know the animal nutrition and feeding particularities of farm and pet species;</li> <li>- to know the nutritional value of raw materials and feeds</li> <li>- practical skills in animal feeding practice and optimization</li> </ul>

## 8. Content semester I

<p><b>8.1. LECTURE</b> <b>Number of hours – 28</b></p> <p>Nutritional characteristics of feedstuffs and recommendation for feeding use. Feeding particularities of farm and pet animal species. Principles of animal feeding optimization.</p>	<p>Teaching methods</p> <p>Lecture</p>	<p>Notes</p> <p>A two-hour lecture weekly</p>
<p><b>8.2. PRACTICAL WORK</b> <b>Number of hours – 28</b></p> <p>Nutritional requirements of animals. Feedstuffs characteristics, nutritional value and recommendations Feeding particularities by animal species and categories Applied feeding and feed optimisation and formulation</p> <p><i>Compulsory bibliography:</i> 1. Course information/notes and on-line information from uaiasi/Moodle and practical work support</p> <p><i>Recommended bibliography:</i> 1. Church D. C. and col., 1989 - Basic Animal Nutrition and Feeding, 3-rd Ed. John Wiley and Sons, New York. 2. Pond W. G. și col., 1995 – Basic Animal Nutrition and Feeding, John Wiley &amp; Sons. Inc. New York. 3. P.McDonalds and col. – Animal nutrition. Seventh Edition. Pearson Ed., London U.K. <a href="http://www.pearsoned.co.uk">www.pearsoned.co.uk</a> 4. The Merck Veterinary Manual, 1991 (and after editions) - Merck &amp; Co., Inc., USA</p>	<p>Theoretical and practical presentation, followed by interactive discussions based on the approached theme and execution of work</p>	<p>A two-hour session weekly</p>

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

<p>The course structure is related to the educational program of the fundamental and preclinical disciplines. The discipline content is developed in correlation with necessary requirements for "day one skills" and "year one skills"</p>
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## 10. Assessment

Type of activity	10.1. Assessment criteria	10.2. Assessment methods	10.3 Percentage of the final grade
<b>10.4. Lecture</b>	The notions assimilated during the lectures will be evaluated writing in the exam session.	MCQs test	70 %
<b>10.5. Seminar/Laboratory</b>	Laboratory work assessment must highlight the assimilation degree (theoretical and practical) obtained by the student.	Continuous evaluation of the personal activity and a complete personal portfolio about the practical works	30 %

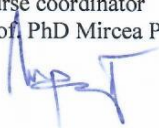
<b>10.5. Seminar/Laboratory</b>	Laboratory work assessment must highlight the assimilation degree (theoretical and practical) obtained by the student.	Continuous evaluation of the personal activity and a complete personal portfolio about the practical works	30 %
<b>10.6. Minimum performance standards</b>			
Knowing the basic concepts of animal nutrition, the chemical composition of feedstuffs in relation with animal body and metabolism; generalities (principles, methods and terms about the nutritional value assessment of feeds)			

- <sup>1</sup> Cycle of studies- choose of the three options: Bachelor/Master/Ph.D.
- <sup>2</sup> Discipline status (content)- for the undergraduate level, choose one of the options:- **FD** (fundamental discipline), **BD** (basic discipline), **CS** (specific disciplines-clinical sciences), **AP** (specific disciplines-animal production), **FH** (specific disciplines-food hygiene), **UO** (disciplines based on the university's options).
- <sup>3</sup> Discipline status (compulsoriness)- choose one of the options – **CD** (compulsory discipline) **OD** (optional discipline) **ED** (elective discipline).
- <sup>4</sup> One credit is equivalent to 25-30 hours of study (teaching activities and individual study).

Date  
12.09. 2021

Course coordinator  
Univ. Prof. PhD Mircea POP

Laboratory work/seminar coordinator  
Lecturer PhD. Cristina RADU-RUSU




14.09.2021

Head of the Department  
Assoc. Prof. PhD Daniel SIMEANU



17.09.2021

Approved by the Faculty Council