SYLLABUS

1. Course title:

BASIC ANIMAL NUTRITION

2. Code:

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

(•) Mandatory ( ) Elective

6. Prerequisites:

Passed exam from the course of Organic chemistry

7. Class restrictions:

No class restrictions

8. Duration / semester:

1 5

9. Weekly contact hours:

9.1. Lectures:	3
9.2. Seminars:	2
9.3. Laboratory/Practice classes:	0

10. Faculty:

Faculty of Technology

11. Department/study program:

Agronomy

12. Lecturer:

Matija Domaćinović, full professor

13. Lecturer's e-mail:

mdomac@pfos.hr

14. Web site:

www.tf.untz.ba

15. Course aims:

Introduce students:
- with a nutritional role of basic organic and inorganic nutrients,
- with the method of calculating digestibility of meals, feed and nutrients, and calculating the energy value of the feed,
- the chemical composition of voluminous and concentrated fodder,
- the preparation of the feed, the conditions of conservation, storage and use in the feeding of certain species and categories of animals,
- types of feed mixtures and their use in animal feed

16. Learning outcomes:

After successfully passing the course sudent will be able to:
1. Identify the anatomical and physiological characteristics of the digestive system of individual animals, understand the digestibility and whatsoever depends
2. Classify nutrients, know important representatives and their physiological role in the organism of domestic animals
3. Calculate the energy values of fodder in newer energy units
4. Identify individual candles and canned voluminous fodder, as well as concentrates and fodder mixtures, and interpret their role in portions of certain species and categories of animals

17. Course content:

Anatomical and physiological characteristics of digestion, and digestive system in some domestic animals. Classification of organic nutrients, structure of nutrients and water and physiological role in animal feed. Symptoms of nutrient deficiency in the organism of animals. Degradation and Resorption of Organic Nutrients and their metabolism. Definition of digestibility and factors. Methods of calculating digestibility. Calculation of the energy value of the feed - energy units.
Fodder distribution, definition, nutritional value of some voluminous and concentrated feed, mineral feed and feed additives. Antinutritive value of fodder. Methods for preserving and storing fodder. Use of feed at meal rates of certain animal categories. Types of feed mixtures and their nutritional value and practical application.

18. Learning methods:

The methods of learning in the course are:
- Lectures with the use of multimedia resources, active learning techniques and with active participation and discussion of students;
- Auditorial exercises

19. Assessment methods:

During the course, short exams related to several related chapters of the subject are foreseen. There are a total of three short written tests that will be held according to the pre-announced term, after the lecture or exercises. Each successfully passed test will be evaluated with max. 10 bodobs, which totals max.30 points. All students take both tests on the subject at the same time, thereby achieving uniformity of the level of knowledge that is being tested, as well as the conditions under which the student takes the exam.
As part of the pre-requisites, students are required to prepare individual or group seminar work that will cover a specific topic from the content of the course. The seminar paper is submitted to the subject teacher in writing for examination and evaluation, no later than the end of classes. A positive evaluation of the seminar work brings the student 0-10 points. In addition to the above mentioned, during the course, presence in class (up 6 points) and activity at classes (up to 4 points). will also be scored. The final exam is oral and the right to take the final exam is given to students who have collected at least 30 points in prerequisites.
At the oral examination the student answers the four questions drawn from the program of the course, treated in lectures and exercises. Oral exam can be passed if the student answers all four questions. The maximum number of points a student can earn on an oral exam is 50.
Checks of all forms of knowledge are recognized as a cumulative test if the result is positive after each individual check and is at least 50% of the total of the predicted and / or required knowledge and skills.
In order to pass a course, the student must have a minimum of 54 cumulative points of which a minimum of 25 points on the final exam.

20. Assessment components:

The examination score is based on the total number of points the student has obtained by fulfilling the pre-requisites and passing the exam, and is maximum 100 points and is determined according to the following scale:

Student obligations	Points
Presentation (lectures)	3
Presence (exercises)	3
Activity	4
Seminar	10
Mini tests	30
Final Exam	50

21. Required reading list:

1. M. Domaćinović (2006): Hranidba domaćih životinja, Poljoprivredni fakultet u Osijeku, str. 17.-340.
2. M. Domaćinović (1999): Praktikum vježbi hranidbe domaćih životinja, Poljoprivredni fakultet u Osijeku, str.1- 50.

22. Web sources:

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session: