SYLLABUS

1. Course title:

KNOWLEDGE AND TECHNOLOGY OF ANIMAL FEED

2. Code:

3. Cycle of study:

1

4. ECTS credits:

6

5. Type of course:

(•) Mandatory ( ) Elective

6. Prerequisites:

No prerequisites

7. Class restrictions:

No class restrictions

8. Duration / semester:

1 5

9. Weekly contact hours:

9.1. Lectures: 3

9.2. Seminars: 0

9.3. Laboratory/Practice classes: 2

10. Faculty:

Faculty of Technology

11. Department/study program:

Agronomy

12. Lecturer:

Meho Bašić, associate professor

13. Lecturer's e-mail:

meho.basic@untz.ba

14. Web site:

www.tf.untz.ba

15. Course aims:

- Introducing students to the principles of animal feed technology.
- Acquisition of specific theoretical and practical knowledge regarding the preparation of nutrition formulas, raw materials, etc.
- To master the knowledge related to the methodology of ensuring the quality system of animal feed, quality control methods, etc.

16. Learning outcomes:

At the end of the semester/course, successful students, who have been continuously carrying out their duties during the entire teaching period, will be trained:
- understand the concept and importance of animal feed in the total food chain.
- understand the basic processes of animal feed technology and specific technological processes for processing and preserving animal feed.
- understand the quality control system and methods of fodder.

17. Course content:

The subject of the study and development of feed industry. The importance of animal feed in the entire food chain. Raw material and composition of animal feed. Formulations of nutrition mixtures. Basic technological processes in the production of animal feed (reception, cleaning, drying, preserving, grinding, dosing, mixing, storage, transport). Principles of setting up the technological process of production. Production lines and equipment for hydrothermal-mechanical processes (conditioning, pelleting, compacting, cooling, drying, extrusion, extrusion, toasting etc.), adding liquid components, packing, storing and distributing finished products. The management of production processes and quality control in animal feed technologies. Quality assurance systems in animal feed technology.

18. Learning methods:

- Interactive lectures using modern techniques.
- Consultation of students in the group and individually.
- Experimental / laboratory exercises
- Exercises in industrial plants.

19. Assessment methods:

After the first half of the semester (seventh or eighth week) students take the first test, which includes previously treated topics (lectures and exercises). The test consists of 20 questions related to the treated topics. Each question is scored with 1 point. On the first test the student can get min 11 points and max 20 points. After the end of the semester students take the second test which includes previously treated topics (lectures and exercises). The test consists of 20 questions related to the treated topics. Each question is scored with 1 point. On the second test the student can also get min 11 points and max 20 points. Both tests take all students at the same time. The final exam is oral. The right to take the final exam have all students who have completed all the experimental exercises and passed the final colloquium after the exercises, and passed both the written test. At the final exam, the student can get 26 points and max 50 points. Students who have not passed the written tests will have the possibility of take them in the term of the final exame, provided that they have fulfilled the pre-requisite obligations (completed experimental exercises, regular attendance/lectures and passed final exam).
For the total achievement of the exam, the student can get min 54 points and max 100 points.

20. Assessment components:

Student Responsibilities: Points

Attendance and activity at lectures: min 3 - max 5
Laboratory exercises and final exam: min 3 - max 5
Written test I (first check): min 11- max 20
Written test II (second check): min 11 - max 20
Final check (written / oral): min 26 - max 50
Note: For each of these obligations, the student must have at least 54% of the max points listed above.

21. Required reading list:

1. Stanaćev V, Kovčin, S.(2003): Hraniva i tehnologija stočne hrane i osnovi ishrane domaćih životinja,Novi Sad.
2. Đorđević, N., Dinić, B.(2007): Hrana za životinje. Cenzone Tech-Europe, Aranđelovac.

22. Web sources:

http://www.ifif.org/uploadImage/2013/3/21/7264ea8842a9c18523e975f7ce788e671363868802.pdf
http://www.ifif.org/pages/t/IFIF+FAO+Feed+Manual

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session: