SYLLABUS

1. Course title:

THE BASICS OF PLANT AND ANIMAL PRODUCTION

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 2

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:

13. Lecturer's e-mail:

14. Web site:

www.tf.untz.ba

15. Course aims:

The objectives of the course are to introduce students to:
- basics of mineral nutrition of plants and fertilization
- different techniques in the cultivation of plants
- possibilities of increasing yields in stress conditions
- development of animal production and domestication of animals,
- various biotechnologies in animal breeding

16. Learning outcomes:

After successfully mastering the course, student will be able to:
1. Determine the state of mineral nutrition of plants on the basics of soil and plant material analysis and identify the symptoms of lack of major plant nutrition
2. Select the appropriate agrotechnical measures in plant production
3. Differentiate similarities and differences in production, growth and reproduction among different types of domestic animals
4. Choose equipment for facilities for breeding different types of domestic animals

17. Course content:

Agroecological basis of plant production; Climate, soil and relief, as abiotic factors; Biological yield and income: definition, productivity factors; Mineral nutrition and fertilization; Plant Production Systems; The needs of the main crops to heat, water and soil; Influence of weather and soil on corn and wheat yields; Stress and ability to increase yields in stressful conditions;
Development and original forms of domestic animals; Animal breeding and domestication; Species and breeds of domestic animals; Growth and development of domestic animals; Fertility and reproduction; Constitution, condition and estimate of the exterior of domestic animals; Methods of breeding and assessment of production characteristics; Testing of production characteristics; Breeding animals evaluation; General technological and technical regulations of facilities for domestic animals; Specifics of nutrition of domestic animals; Nutrients in domestic animals nutrition.

18. Learning methods:

- Lectures with the use of multimedia resources, active learning techniques and with active participation and discussion of students;
- Field exercises;
- Preparation and presentation of seminar papers.

19. Assessment methods:

After half of the semester, students take the writing test, which includes previously treated topics with lectures and exercises, and at the end of the semester the second test. 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 a seminar paper that will cover a specific topic from the content of the course. Seminar work is submitted in written or electronic form to the subject teacher for examination and evaluation and then presented orally. All group students whose participation is valued individually participate in the creation and presentation of group seminar work. The student can achieve 0 to 5 points for the seminar work. Also, for a continuous activity on lectures and exercises throughout the semester, the student can achieve 0 to 5 points.
The final exam is oral. At the oral exam students answer three questions drawn from the program of the subject treated in lectures and exercises. An oral exam can be passed if the student answers all three questions. The maximum number of points a student can earn on an oral exam is 50.
Checks on 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 for a student to pass a course, he/she must have a minimum of 54 cumulative points of which a minimum of 25 points on the final exam.

20. Assessment components:

Maximum number of points	
Test I	20
Test II	20
Student activity	5
Seminar paper	5
Final exam	50
Total	100

For a passing grade, the student must have at least 54 points.

21. Required reading list:

1. Bašić F., Herceg N. (2010): Temelji uzgoja bilja, Synopsis, Zagreb.
2. Jovanovac, S. (2013): Principi uzgoja životinja. Poljoprivredni fakultet Osijek
3. Butorac A. (1999). Opća agronomija – izabrana poglavlja, Školska knjiga, Zagreb

22. Web sources:

23. Applicable starting from the academic year:

2016/2017.

24. Adopted in the Faculty/Academy session: