SYLLABUS

1. Course title:

BASICS OF DESIGNING IN AGRICULTURE

2. Code:

3. Cycle of study:

1

4. ECTS credits:

3

5. Type of course:

○ Mandatory ◉ Elective

6. Prerequisites:

No prerequisites

7. Class restrictions:

No class restrictions

8. Duration / semester:

1 6

9. Weekly contact hours:

9.1. Lectures:	2
9.2. Seminars:	0
9.3. Laboratory/Practice classes:	1

10. Faculty:

Faculty of Technology

11. Department/study program:

Agronomy

12. Lecturer:

Gordan Avdić, associate professor

13. Lecturer's e-mail:

gordan.avdic@untz.ba

14. Web site:

www.tf.untz.ba

15. Course aims:

The aim of the course is to provide the student with basic knowledge in the design and construction of infrastructure facilities, melioration systems and agricultural farms necessary for further studies, and for work within the profession.

16. Learning outcomes:

After successfully passing the course sudent will be able to:
1. Plan and carry out the tasks required to design and build farm facilities
2. Make the project documentation necessary for the construction of farm buildings
3. Identify the differences, advantages and disadvantages of different design and construction solutions on farms
4. Choose the best solution (project) for building objects on the farm, with proper selection of accessories in the facilities.

17. Course content:

Significance and role of designing in the development of agricultural production and regulation of rural area in BiH. Planning for Spatial Use. Design and construction of farms (procedures of rural areas and farms). Building materials. Reflection on designing different types of farms and supporting facilities. Design of animal stalls (types of objects, ventilation, lighting, drainage / disposal of waste materials) and accompanying equipment. Design of protected logs and warehouses. Design of dryers and refrigerators.

18. Learning methods:

The methods of learning in the course are:
- Lectures with the use of multimedia resources,
- Learning with active participation and discussion of students
- Field work

19. Assessment methods:

After half of the semester (in the 8th week), students take the writing test, which includes previously treated topics from lectures and exercises. The student can achieve a maximum of 20 points on the first test. In the 13th week of the semester, students take the writing test, which includes previously treated topics from lectures from the second semester. The student can achieve a maximum of 20 points on the second test. All students take both tests on the course 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. For a continuous activity in lectures throughout the semester, the student can achieve 0 to 10 points. The final exam is written or oral. All students have the right to go to the final exam. The maximum number of points a student can achieve on the final exam is 50. The minimum number of points on the final exam is 25.
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 to pass the course, a student must have at least 54 cumulative points of which at least 25 points on the final exam.

20. Assessment components:

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

Student obligations	Points
Presence and activity at classess	10
Test I	20
Test II	20
Final Exam	50
Total	100

21. Required reading list:

1. Dash, N.B., Mohanty, M.K. (2007) Concepts and Applications in Agricultural Engineering, International Book Distributing Co.
2. CIGR Handbook of Agricultural Engineering, Volume I (1999) CIGR–The International Commission of Agricultural Engineering

22. Web sources:

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session: