SYLLABUS

1. Course title:

MELIORATIONS

2. Code:

3. Cycle of study:

1

4. ECTS credits:

5

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:	2
9.2. Seminars:	0
9.3. Laboratory/Practice classes:	2

10. Faculty:

Faculty of Technology

11. Department/study program:

Agronomy

12. Lecturer:

Jasenka Šoštarić, full professor

13. Lecturer's e-mail:

jasna.sostaric@pfos.hr

14. Web site:

www.tf.untz.ba

15. Course aims:

Acquisition of basic knowledge in the field of geodesy, hydrology, landscaping, drainage and irrigation, erosion and soil conservation.

16. Learning outcomes:

Ability to independently plan and solve minor, and team solving of larger meliorative interventions in the immediate profession. Creating a solid foundation for continuing education and expanding knowledge in this area.

17. Course content:

Introduction to the meliorative issues of BiH,
Basics of geodesy, Basics of hydrology and water balance of soil, Basic hydraulic computation and hydrometric measurements, Drainage (drainage requirements, drainage drainage systems, drainage systems), Irrigation (irrigation, water quality, regime, irrigation and watering rate, basic parts of irrigation systems, irrigation methods). Maintenance and exploitation of drainage and irrigation systems, erosion and soil conservation (species, forms, factors and erosion forecasts, conservation measures of soil: technical, agrotechnical, biological).

18. Learning methods:

The most important learning methods in the course are:
- Lectures with the use of multimedia resources,
- the technique of active learning with active participation and discussion of students.

19. Assessment methods:

After the first half of the semester, students take the writing test, which includes previously treated topics from lectures and exercises. The test consists of tasks of simple recall and descriptive tasks. Each correct answer is scored with 1 to 5 points, ie, a student can score up to 25 points in the first test. After the end of the second half of the semester, students take the second written test which includes topics with lectures and exercises from that part of the semester. The test consists of tasks of simple recall and descriptive tasks. Each correct answer is scored with 1 point, ie, a student can achieve a maximum of 30 points on the second test.
To pass the test a student must have a minimum of 50% points of the total number of points.
For a continuous activity on lectures and exercises throughout the semester, the student can achieve 0 to 10 points.
At the end of the semester a final test is organized according to the same principle as the partial tests, with the complete teaching material included. Final exams can be accessed by students who have not passed all partial tests, or those who have passed them but are not satisfied with the grade. The maximum number of points on the final exam is 30.

20. Assessment components:

The exam rating is based on the total number of points the student has obtained by completing the pre-requisites and the final exam and contains a maximum of 100 points and is determined according to the following scale:

Student obligations	Points
Attendance at lectures	3
Attendance at exercises	3
Student activity	4
Tests I and II	60
Final exam	30

21. Required reading list:

1. Žurovec, J. (2008): Poljoprivredne melioracije i uređenje zemljišta, Interna skripta, Poljoprivredno - prehrambeni fakultet, Sarajevo.
2. Vlahinić, M. Hakl Z.(2001); Odvodnjavanje poljoprivrednih zemljišta, Poljoprivredni fakultet Sarajevo.

22. Web sources:

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session: