SYLLABUS

1. Course title:

VEGETABLE PRODUCTION IN CLOSED SPACE

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 7

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:

Nada Parađiković, full professor

13. Lecturer's e-mail:

nparadz@pfos.hr

14. Web site:

www.tf.untz.ba

15. Course aims:

To introduce students to the production of vegetables in protected areas, and the construction of greenhouses in the selection of construction materials and equipment. Selection and modeling of cultivation systems in soil, substrate (different composition), container cultivation, hydroponic cultivation in substrate and without. Sterilization and disinfection of space, application of biological methods in the protection of cultures.

16. Learning outcomes:

1. List and describe the types of protected areas
2. Identify location features and other factors when building protected areas
3. Select the type of protected area depending on the selection of production technologies
4. Manage modern production systems and control units
5. Organize the production process and maintain protected areas

17. Course content:

Historical development of production in greenhouses. Importance of protected areas in plant production. Types of protected areas. Greenhouse constructions. Raising protected areas and choosing a place for the same. Design and planning of the selected type of protected area. Selection and modeling of cultivation systems in soil, substrate (different composition), container cultivation, hydroponic cultivation in substrate and without. Sterilization and disinfection of space, application of conventional and biological methods in the protection of cultures. Technologies of vegetable crops in protected areas.

18. Learning methods:

The most important learning methods in the subject are:
- Lectures with the use of multimedia resources, active learning techniques and with active participation and discussion of students;
- Field exercises

19. Assessment methods:

Students are expected continuous attendance and active participation in the tasks during the lectures. Going to field teaching is obligatory. After half of the semester (in the 8th week), students take the writing test, which includes previously treated topics from lectures. 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 contains a maximum of 100 points and is determined according to the following scale:

Student obligations	Points
Student activity	10
Test I	20
Test II	20
Final exam	50

21. Required reading list:

1. Parađiković,N. (2009.): Zaštićeni prostori plastenici – staklenici, Poljoprivredni fakultet Osijek.
2. Matotan,Z.(2004): Suvremeno povrćarstvo, Nakladni zavod, Globus,Zagreb

22. Web sources:

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session: