

## SYLLABUS

**1. Course title:**

CHEMISTRY OF AGENTS FOR PLANT PROTECTION

**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

7

**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:**

Jasmin Suljagić, Ph.D. assistant professor

**13. Lecturer's e-mail:**

jasmin.suljagic@untz.ba

**14. Web site:**

www.tf.untz.ba

**15. Course aims:**

The aim of this course is to provide basic theoretical and practical knowledge of chemistry of plant protection products that are the basis for understanding and application in the agronomic profession. Laboratory exercises enable students through practical and independent work to overcome the basic laboratory procedures of chemical plant protection products.

**16. Learning outcomes:**

After successfully mastering the course students will be able to:

- prepare a report on completed activities in the laboratory,
- categorize important groups of chemical plant protection products and their use for improving agricultural production
- establish the importance of applying chemical knowledge and their correlation with specific requirements in agricultural production.

**17. Course content:**

Division of chemical plant protection products  
Pesticides  
Application of pesticides and their division  
Herbicides  
Fungicides  
Arboricides  
Desiccants

**18. Learning methods:**

The most important learning methods in the subject are:

- lectures using multimedia resources, active learning techniques and with active participation and discussion of students,
- practical exercises and active experimentation,
- solving problem tasks.

**19. Assessment methods:**

After half of the semester, students take the writing test (first test), which includes previously treated topics with lectures and exercises. The test consists of a variety of tasks where each correct answer is scored, depending on the complexity of the task, that is, a student in the first test can achieve a maximum of 25 points. After the end of the semester students take the writing test (second test) covering the treated topics with lectures and exercises in the second part of the semester. The test consists of complex tasks where the student in the second test can achieve a maximum of 25 points. 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 obliged to take a written colloquium containing a specific topic from the practical content of the subject. Students can earn 0 to 10 points for a completed colloquium. Also, for a continuous activity on lectures and exercises throughout the semester, students can achieve 0 to 10 points.

The final exam is oral. The right to attend the final exam is given students who have reached the minimum number of points in the first and second tests and colloquium.

At the oral exam students answer three questions drawn from the program of the subject treated in lectures and exercises. The maximum number of points a student can achieve at the oral exam is 30.

Checks on all forms of knowledge are recognized as a cumulative exam if the result is positive after each individual check and is at least 50% of the total of the scheduled and / or required knowledge and skills.

In order to pass a course, the student must have a minimum of 54 cumulative points of which a minimum of 15 points on the final exam.

**20. Assessment components:**

Student obligations	Points
Attendance and student activity	10
Colloquium	10
Tests (I + II)	50
Final Exam	30
Total	100

**21. Required reading list:**

1. Pine, S.H. (1994) Organska hemija, Zagreb, Školska knjiga
2. Volhardt, K.PC., Schore, N.E. (2004) Organska hemija, Beograd, Data Status

**22. Web sources:****23. Applicable starting from the academic year:**

2016/17

**24. Adopted in the Faculty/Academy session:**