SYLLABUS

1. Course title:

Environmental Toxicology

2. Code:

3. Cycle of study:

1

4. ECTS credits:

2

5. Type of course:

○ Mandatory ◉ Elective

6. Prerequisites:

NONE

7. Class restrictions:

Only for students of Faculty of Pharmacy

8. Duration / semester:

1 1

9. Weekly contact hours:

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

10. Faculty:

Faculty of Pharmacy

11. Department/study program:

Pharmacy (Integrated study I and II cycle)

12. Lecturer:

Maida Šljivić Husejnović, PhD, Assoc.Prof.

13. Lecturer's e-mail:

maida.sljivic-husejnovic@untz.ba

14. Web site:

www.frmf.untz.ba

15. Course aims:

The aim of this course is to :
• introduce the theoretical principles of environmental toxicology and factors of environmental poisoning;
• expand knowledge and understanding of the relationship between environment and health;
• identify the biggest anthropogenic pollutants/environmental poisons and apply the risk and crisis management methods.

16. Learning outcomes:

At the end of the semester/course, successful students, who have completed their assignments on time in the semester, will be able to:
1. manage the risks of environmental poisoning,
2. have basic knowledge about legislation in the area of the environment
3. participate in public speaking about the importance of elimination of environmental toxins, especially mutagens, carcinogens and reproductive toxins
4. recognize healthy lifestyles and efforts to improve health at the level of the local community "Healthy City"/ network of healthy cities (independent research: seminars)

17. Course content:

1. introduction to environmental toxicology
2. environmental toxins/risks and health
3. environmental factors
4. environmental teratogens, mutagens and carcinogens
5. air pollution
6. water pollution
7. soil pollution
8. health and environmental monitoring

18. Learning methods:

Lectures: Students are required to attend lectures and actively participate in them.
Project: Public advocacy activities aimed at environmental improvement.
Seminar paper: Students write a seminar paper based on collected literature and orally present it.

19. Assessment methods:

Pre-exam activities (min 55, max 100 points)

- Student's activity - 0-10 points
- Seminar paper - 5-10 points
- Project - max. 30 points
- Exam - 27-50 points

Student's Activity: The student actively participates in class during lectures and demonstrates engagement in the work. Student's activity is evaluated with 0-10 points.
Seminar Paper: Students write a seminar paper based on collected literature on the given topic and orally defend it. The student's independent work is graded with 5-10 points.
Project: The student actively participates in public advocacy activities aimed at environmental improvement and submits a written report on it. Based on the conducted activities, the student is awarded 0-30 points. The student earns points for the grade based on project activities. If the student achieves a sufficient number of points for passing the grade for other planned activities and assessments during the semester, they are not required to submit a report on the completed project.
Exam: Students can take the exam after attending the prescribed teaching units during the semester. To pass the exam, students need to achieve 27-50 points.
Students need to achieve a total number of points satisfying the passing grade criteria for planned activities and assessments during the semester. If a student fails to achieve a sufficient number of points for grading in pre-exam activities, the final exam and the failed parts of the exam are taken in the regular and retake exam dates.

20. Assessment components:

A student's performance is continuously monitored throughout the course and is expressed in points.

The final grade of a student after all planned forms of assessment is evaluated and graded as follows:
10 (A) - 95-100 - outstanding performance without errors or with minor errors
9 (B) - 85-94 - above the average, with some errors
8 (C) - 75-84 - average, with noticeable errors
7 (D) - 65-74 - generally good, but with significant shortcomings
6 (E) - 55-64 - meets the minimum criteria
5 (F, FX) <55 - does not meet the minimum criteria.

21. Required reading list:

1. Pranjić N. Zdravstvena ekologija, 2006
2. Valić F. i sar. Zdravstvena ekologija, 2001
3. Sofilić T. Ekotoksikologija, 2014
4. Sofilić T. Zdravlje i okoliš, 2015

22. Web sources:

23. Applicable starting from the academic year:

2023/2024.

24. Adopted in the Faculty/Academy session:

17.11.2025.