

## SYLLABUS

**1. Course title:**

PHARMACOTHERAPY

**2. Code:****3. Cycle of study:****4. ECTS credits:****5. Type of course:** Mandatory  Elective**6. Prerequisites:****7. Class restrictions:****8. Duration / semester:****9. Weekly contact hours:**

9.1. Lectures:

9.2. Seminars:

9.3. Laboratory/Practice classes:

**10. Faculty:**

Faculty of Pharmacy

**11. Department/study program:**

Pharmacy (integrated 1st and 2nd cycle)

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

**14. Web site:**

www.frmf.untz.ba

**15. Course aims:**

Acquiring knowledge about pharmacotherapy, indications, contraindications, interactions, and adverse effects of drugs.

**16. Learning outcomes:**

After completing the course, the student will be able to: Analyze and comment on pharmacotherapy, and recognize therapeutic problems.

Identify interactions in pharmacotherapy and assess their clinical significance.

Select drugs from pharmacotherapeutic groups for the treatment of specific diseases.

Individualize pharmacotherapy. Assess the risks of pharmacotherapy for specific risk groups (pregnant women, breastfeeding women, infants, children, individuals with liver or kidney impairment, the elderly).

Predict adverse effects of therapy.

**17. Course content:**

1. Clinical pharmacy. Rational pharmacotherapy.
2. Clinical testing of drugs, errors in therapy, drug interactions, side effects.
3. Use of drugs in elderly patients, patients with liver and kidney damage, pregnant women, nursing mothers, infants, children.
4. Self-treatment and OTC drugs.
5. Prophylactic use of medicines.
6. Consultation skills.
7. Hyperlipidemia and old age.
8. Use of drugs in sportsmen.
9. Pharmacotherapy of arterial hypertension
10. Application of antimicrobial drugs
11. Pharmacotherapy of diabetes
12. Use of antithrombotic drugs.
13. Use of drugs in the self-treatment of osteoporosis.
14. Use of antidepressants.
15. Use of anxiolytics and antipsychotics.

**18. Learning methods:**

Students are required to attend lectures and actively participate through discussion, based on the knowledge they have already acquired from the theoretical classes.

The student's seminar work is mandatory as a group team project.

**19. Assessment methods:**

The knowledge acquired from the theoretical classes will be verified through a test, through activity and discussion during lectures, and through team seminar work.

The test is done in written form and consists of questions in the form of essays, tasks in which students have to circle the correct answer, complete sentences or clarify schemes/pictures. The final exam refers to the verification of knowledge in the form of a test for students who did not pass the same during the course.

The final grade is formed on the basis of the sum of points obtained from the partial exam, seminar work, attendance at lectures and activities at lectures.

Forming the final grade:

Based on the regularity of class attendance, it is mandatory to obtain a minimum of 3 points. The maximum number of points on this basis is 5.

The student is obliged to achieve a minimum of 6 points through continuous activity in class. The maximum number of points on this basis is 10.

In order to pass the test, it is necessary to achieve a minimum of 27 points.

The maximum number of points that can be obtained on the test is 50.

A successfully prepared and defended seminar paper is evaluated with a maximum of 35 points, while a minimum of 19 points must be achieved.

The points achieved on all bases defined by the syllabus are added up and a (final) grade is formed based on the total number of points.

**20. Assessment components:**

0-54 Five (5) «does not satisfy» «F»  
55-64 Six (6) «enough» «E»  
65-74 Seven (7) «good» «D»  
75-84 Eight (8) «excellent» «C»  
85-94 Nine (9) «outstanding» «B»  
95-100 Ten (10) «excellent" «A»

**21. Required reading list:**

1. R. Walker, C. Whittlesea. Clinical pharmacy and therapeutics. 5th ed., 2012.
2. I Francetić i sar. Farmakoterapijski priručnik, 2015.
3. Authorized lectures and working material from lectures.

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

2023/2024.

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

17.11.2025.