

## 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 side effects of drugs.

**16. Learning outcomes:**

After the course, the student will be able to:

Analyze and comment on pharmacotherapy, and recognize therapeutic problems.

Recognize interactions in pharmacotherapy and evaluate their clinical significance.

Choose drugs from pharmacotherapeutic groups for the treatment of certain diseases.

Individualize pharmacotherapy,

Assess the risk of pharmacotherapy for certain risk groups (pregnant women, nursing mothers, infants, children, people with liver and kidney damage, the elderly).

Predict unwanted 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:**

Knowledge acquired through theoretical teaching will be assessed through a written test, through student activity and discussion during the lectures (recording the acquired knowledge during theoretical classes and awarding points as lecture activity), and through a group seminar paper.

The test is taken in written form and consists of essay questions, questions requiring written answers and their interpretation, and entering information into designated fields in a schematically presented process.

The final exam refers to knowledge assessment in the form of a test for students who did not pass it during the semester.

The final grade is formed based on the sum of points achieved on the partial exam, the seminar paper, lecture attendance, and activity during lectures.

Final grade formation:

For regular attendance, the student must obtain a minimum of 3 points. The maximum number of points for this component is 5.

The student is required to obtain a minimum of 6 points through continuous activity during classes. The maximum number of points for this component is 10.

A test is considered passed with a minimum of 27 points. The maximum number of points that can be achieved on the test is 50.

A successfully prepared and defended seminar paper is valued at a maximum of 35 points, while a minimum of 19 points is required. Points obtained from all components defined in the syllabus are summed, and based on the total number of points, the (final) grade is formed.

**20. Assessment components:**

- 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. 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:**

2018/2019

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

17.11.25.