

SYLLABUS

1. Course title:

PHARMACOLOGY I

2. Code:

3. Cycle of study:

4. ECTS credits:

5. Type of course:

☒ Mandatory ☐ Elective

6. Prerequisites:

None

7. Class restrictions:

None

8. Duration / semester:

9. Weekly contact hours:

9.1. Lectures:

3

9.2. Seminars:

0

9.3. Laboratory/Practice classes:

2

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:

- the student should acquire basic knowledge of general pharmacology.
- introduction with the basic rules of pharmacodynamics, pharmacokinetics and toxicology with emphasis on the harmful effects of drugs, prescription and dispensing of drugs.
- acquiring knowledge of the basics and significance of ANS and CNS pharmacology.
- teach students how to implement acquired knowledge in practice.
- improve skills for continuous work and lifelong education.

16. Learning outcomes:

1. Development of medical opinion and adoption of rational drug prescription according to the characteristics of an individual patient (application of pharmacotherapeutic algorithm)
2. Training for the rational prescription of drugs, through the analysis of treatment guidelines, for the most common therapeutic problems (such as insomnia and anxiety)
3. Development of the practical skill of prescribing drugs.

17. Course content:

Introduction to pharmacology; Receptors; Mechanism of drug action; Elimination of drugs; Pharmacogenetics; Special features of pharmacotherapy in the elderly and in pathological conditions; Drug interactions; Adverse drug effects; ANS; VNS; Strong analgesics; General and local anesthesia; Anxiolytics and hypnotics; Antidepressants; Alzheimer's disease therapy; Antiparkinson drugs; Epilepsy therapy.

18. Learning methods:

Lectures, exercises,

19. Assessment methods:**1. Pre-exam activities**

Class attendance: 5 points

Colloquium (practical classes): Minimum 3 points to pass, maximum 5 points

Partial exam/Test: Minimum 22 points to pass, maximum 40 points

2. Final exam: Minimum 27 points to pass, maximum 50 points.

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:

HP Rang, MM Dale, JM Ritter, PK Moore. Farmakologija. Peto izdanje – prevod, Data Status Beograd, 2005.
V Varagić, M Milošević. Farmakologija. Elit Medica Beograd, latest edition or optional
M Aščerić. Farmakologija sa osnovama farmakoterapije

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

2023/2024.

24. Adopted in the Faculty/Academy session:

17.11.2025.