SYLLABUS

1. Course title:

Biochemistry in Pharmacy

2. Code:

(max. 20 characters)

3. Cycle of study:

3

4. ECTS credits:

15

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

(max. 110 characters)

7. Class restrictions:

Only Pharmacy students

8. Duration / semester:

1 3

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:

Pharmaceutical sciences

12. Lecturer:

Nahida Srabović, PhD, Assoc. Prof.

13. Lecturer's e-mail:

nahida.srabovic@untz.ba

14. Web site:

www.frmf.untz.ba

15. Course aims:

Acquisition of current knowledge from different areas of Biochemistry.
Adoption of scientific methods and procedures used in biochemical research.

16. Learning outcomes:

Assessment of scientific methodology and analysis of procedures used in pharmaceutical biochemistry.

17. Course content:

- Glycobiology and glycoimmunology;
- Oxidative stress in health and disease;
- Biochemistry of cancer;
- Biochemistry of neurodegenerative diseases;
- Biochemistry of hereditary metabolic diseases;
- Immunochemical methods in pharmacy;
- Cell cultures in biochemical research.
- Biochemistry of selected groups of drugs;
- Pharmacogenomics;
- New biochemical markers;

18. Learning methods:

Lectures, consultations, independent search of relevant scientific literature and discussion.

19. Assessment methods:

The knowledge assessment is performed through pre-exam obligations and the final exam.

Pre-examination obligations include:
- Seminar paper 40 points
- Activity 10 points
- Final exam 50 points

TOTAL 54 - 100 points

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) - 54-64 - meets the minimum criteria
5 (F, FX) <54 - does not meet the minimum criteria.

21. Required reading list:

Lieberman M. (2008) Marksove osnove biohemije – klinički pristup. Beograd; Srabović N. i sar, (2020) Biohemijska osnova nasljednih poremećaja metabolizma Tuzla; Softić A. i sar. (2021) Ćelijske kulture u biohemijskim istraživanjima;

22. Web sources:

https://pubmed.ncbi.nlm.nih.gov/

23. Applicable starting from the academic year:

2012/13.

24. Adopted in the Faculty/Academy session:

10.05.2024.