SYLLABUS

1. Course title:

CANCER BIOCHEMISTRY

2. Code:

3. Cycle of study:

1

4. ECTS credits:

3

5. Type of course:

○ Mandatory ◉ Elective

6. Prerequisites:

7. Class restrictions:

8. Duration / semester:

1 7

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 1st and 2nd cycle)

12. Lecturer:

dr.sc. Adaleta Softić, assistant professor

13. Lecturer's e-mail:

adaleta.mulaomerovic@untz.ba

14. Web site:

www.frmf.untz.ba

15. Course aims:

The aim of this course is to acquire knowledge about the causes of cancer, environmental factors that contribute to the development of this disease, the molecular and genetic basis of cancer development, the biochemistry of malignant cells, the body's immune response to a tumor, methods of diagnosis, treatment and prevention.

16. Learning outcomes:

At the end of the semester/course, successful students, who continuously performed their duties during the entire teaching period, will be trained to:
Based on the acquired theoretical knowledge from the course, the student is expected to understand the basic molecular mechanisms of the origin and development of cancer, the biochemistry of malignant cells, and the immune response of the organism to a tumor.

17. Course content:

Characteristics of human cancer. Causes of cancer. Epidemiology of human cancer. Biochemistry and cell biology of cancer. Molecular genetics of cancer. Tumor immunology. Cancer diagnosis. Consequences of cancer and cancer therapy. Cancer prevention.

18. Learning methods:

Cancer biochemistry has a pool of 30 hours of theoretical classes and seminars.
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 pre-exam obligations consist of one test, a group seminar paper, participation during lectures, and regular class attendance. The test is administered in the 11th week of classes and covers the material presented during the first ten weeks of lectures. By the end of the semester, students present their group seminar papers.The final exam is taken during the regular examination periods and includes the test that the student did not pass within the pre-exam obligations or for which they did not achieve the required minimum number of points. A student who passes the test, earns the required number of points on the seminar paper (a minimum of 8), and earns the required number of points for regular attendance and participation during classes (a minimum of 2 points in both categories), obtains the right to have the final grade recorded in the first regular examination period.
Point distribution for knowledge assessment (min – max):
Regular class attendance: 3 – 8 points
Participation during classes: 2 – 7 points
Seminar paper: 8 – 15 points
Test: 42 – 70 points
TOTAL: 55 – 100 points

20. Assessment components:

0-55 Five (5) «does not satisfy» «F»
55-634 Six (6) «enough» «E»
65-74 Seven (7) «good» «D»
75-84 Eight (8) «excellent» «C»
85-94Nine (9) «outstanding» «B»
95-100 Ten (10) «excellent" «A»

21. Required reading list:

1. Eduard Vrdoljak, Ingrid Belac Lovasić, Zvonko Kusić, Damir Gugić, Antonio Juretić. Klinička onkologija, 3. obnovljeno i dopunjeno izdanje. Medicinska naklada Zagreb, 2018. godine
2. Adaleta Softić - authorized lectures

22. Web sources:

23. Applicable starting from the academic year:

2018/2019

24. Adopted in the Faculty/Academy session:

17.11.25.