SYLLABUS

1. Course title:

Organic chemistry

2. Code:

3. Cycle of study:

1

4. ECTS credits:

5

5. Type of course:

Mandatory

6. Prerequisites:

No

7. Class restrictions:

No

8. Duration / semester(s):

1 1

9. Weekly contact hours and student workload:

	Semester (1)	Semester (2)	(for two-semester courses)	Workload: (hours)
9.1. Lectures	3		Classes:	56,25
9.2. Seminars	0		Individual work:	80,72
9.3. Laboratory / Practice classes	2		In total:	136,37

10. Faculty:

Faculty of Pharmacy

11. Department/study program:

Cosmetology

12. Lecturer:

PhD. Majda Srabović, full professor

13. Course aims:

The aim of this course is for the student to master the basic principles and fundamental knowledge in the field of chemistry of natural organic compounds that are used in cosmetology. The acquired knowledge will be useful to students when solving specific problems of identification and analysis of various ingredients in cosmetic products for the purpose

of determining their quality.

14. Learning outcomes:

After completing the required tasks, students will be able to identify, analyze and solve problems related to the structural characteristics and reactions of various organic compounds of biological importance.

15. Course content:

Development of organic chemistry - importance of organic molecules in cosmetology
Structure and bonding in organic molecules
Classification and nomenclature of organic compounds according to functional groups
Hydrocarbons and alkyl halides
Chemistry of alcohols, ethers and carbonyl compounds
Carboxylic acids and derivatives, hydroxy acids
Vitamins and coenzymes
Carbohydrates
Lipids, phospholipids and terpenes in cosmetic preparations
Surfactants
Amino acids, peptides, proteins
Alkaloids
Steroids
Polyphenolic compounds, antioxidants

16. Learning methods:

Lectures - through interactive lectures to introduce students to the basic concepts and principles of behavior of various organic compounds, and through practical examples and problems to bring their structural properties and chemistry closer.
Experimental exercises - through specific experiments, students will demonstrate the level of acquired knowledge through lectures, and acquire skills for practical and scientific-research work.
Consultations - through consultations, students can deepen the knowledge acquired in lectures.

17. Assessment methods:

Engagement - for activity in lectures and lab exercises, a student can receive a maximum of 5 points each.
A colloquium consisting of theoretical foundations and performed experimental exercises is taken. At the colloquium, the student can obtain a maximum of 10 points, the minimum number of points that must be obtained is 6.
Written test of knowledge during the semester Test I and Test II include solving problem tasks. The maximum number of points on each test is 25.
The final exam is in written/oral form, and consists of tasks and questions that cover the entire material and it has a maximum of 30 points.
In order to pass the course, the student must obtain the minimum number of points for a passing grade - 54 points.
The grade on the exam is based on the total number of points that the student earned by fulfilling pre-exam obligations and passing the exam, and according to the quality of acquired knowledge and skills, and contains a maximum of 100 points, and is determined according to the following scale:

Criteria	Max. number of points	Passing points
Test I	25	13
Test II	25	13
Final exam	30	16
Lab.exercises engagement	5	3
Colloquium	10	6
teaching engagement	5	3
Total:	100	54

18. Assessment components:

Number of conquest points	mark (BiH)	(ECTS mark)
0-53	5	F
54 – 63	6	E
64 – 73	7	D
74 – 83	8	C
84– 93	9	B
94 - 100	10	A

19. Mandatory reading list:

1. Peter C. Vollhardt,Neil.E.Schore,Organic chemistry, Hajdigraf, Belgrade,2004.
2. M.Huremovic, M.Srabović, Z.Ademović,E.Huseinović, A.Taletović,Chemistry of natural organic compounds, Tuzla, 2017.

20. Additional reading list:

21. Web sources:

22. Applicable from the academic year:

2025/2026

23. Adopted in the Faculty/Academy session: