SYLLABUS

1. Course title:

BASICS OF PHARMACOGNOSY

2. Code:

3. Cycle of study:

I

4. ECTS credits:

5

5. Type of course:

Mandatory

6. Prerequisites:

No

7. Class restrictions:

No

8. Duration / semester(s):

1 | 2

9. Weekly contact hours and student workload:

Semester (1)	2	Semester (2)		(for two-semester courses)	Workload: (hours)
9.1. Lectures	3			Classes:	56.25
9.2. Seminars	-			Individual work:	75.42
9.3. Laboratory / Practice classes	2			In total:	131.7

10. Faculty:

FACULTY OF PHARMACY

11. Department/study program:

COSMETOLOGY

12. Lecturer:

Ermina Cilović Kozarević, Ph.D., M.Pharm, Associate professor

13. Course aims:

Acquiring basic knowledge about pharmacologically active metabolites of plants and animals (chemical and physical characteristics, distribution, biological activity), as well as about natural medicinal raw materials - drugs (morphological and anatomical characteristics, chemical components, production methods, identification, action and application).

14. Learning outcomes:

The student should be able to independently identify drugs, know the possibilities of their application, pharmacological effects, and master the qualitative and quantitative detection of active chemical substances in individual drugs.

15. Course content:

Definition of natural medicinal raw materials (drugs) and drug preparations, history of use. Primary and secondary metabolism of plants. Classification of natural pharmacologically active ingredients based on chemical structure and biosynthetic origin. Biological sources of drugs, macroscopic characteristics, ingredients, identification, pharmacological action and application of drugs.
Alkaloid drugs
Essential oils and aromatic drugs
Drugs with flavonoids, anthraquinones, phenolcarboxylic acids, lignans
Saponins
Tannins.

16. Learning methods:

Teaching methods: lectures (theoretical teaching) and laboratory exercises (practical teaching). Lectures cover the entire material provided for in the indicative content of the course and are conducted ex cathedra. Laboratory exercises are carried out according to the curriculum and are performed by students working independently or in small groups in the pharmacognosy laboratory. Attendance at laboratory exercises and lectures is mandatory.

17. Assessment methods:

Knowledge assessment during the semester is carried out through activity in exercises and lectures and two preliminary exams that are done practically and/or in writing. Preliminary exam I is held in the middle of the semester, and preliminary exam II at the end of the semester within the exercise schedule and includes material related to the practical and theoretical basis of the exercises. The final exam is taken in writing and/or orally in the scheduled exam periods, and includes material provided for in the indicative course content.
Activity in exercises and lectures carries a maximum of 10 points (minimum 6 points); Preliminary exam I carries a maximum of 20 points (min. 11 points); Preliminary exam II carries a maximum of 20 points (minimum 11); The final exam carries a maximum of 50 points (minimum 26).

18. Assessment components:

The final success of the student is evaluated using the grading scale as follows:
10 (A) - exceptional success without mistakes or with minor mistakes, 95-100 points
9 (B) - above average, with some errors, 85-94 points;
8 (C) - average, with noticeable errors, 75-84 points;
7 (D) - generally good, but with significant shortcomings, 65-74 points;
6 (E) - meets the minimum criteria, 54-64 points;
5 (F, FX) - does not meet the minimum criteria, less than 54 points.
Grade 6 is the lowest passing grade.

19. Mandatory reading list:

1. Šarić-Kundalić B, Maksimović Z (2016). Uvod u Farmakognoziju I, Banovići (116 str)
2. Šarić-Kundalić B, Ademović Z, Mazić M (2018). Uvod u Farmakognoziju 2, Tuzla (103-156 str.)
3. Kovačević N (2004). Osnovi farmakognozije, Beograd (0-309 str.).

20. Additional reading list:

1. Šarić-Kundalić B, Cilović Kozarević E (2021). Farmakognozija 1, Tuzla (166 str.)

21. Web sources:

22. Applicable from the academic year:

2025/2026

23. Adopted in the Faculty/Academy session: