SYLLABUS

1. Course title:

PHARMACEUTICAL BOTANICS I

2. Code:

(max. 20 characters)

3. Cycle of study:

1

4. ECTS credits:

3

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

(max. 110 characters)

7. Class restrictions:

(max. 150 characters)

8. Duration / semester:

1 4

9. Weekly contact hours:

9.1. Lectures:	2
9.2. Seminars:	0
9.3. Laboratory/Practice classes:	0

10. Faculty:

11. Department/study program:

(max. 100 characters)

12. Lecturer:

dr.sc. Sanida Bektić, docent

13. Lecturer's e-mail:

sanida.osmanovic@untz.ba

14. Web site:

(max. 50 characters)

15. Course aims:

The aim of the course is to master the basic knowledge of botany. The course will prepare students for pharmacognosy monitoring.

16. Learning outcomes:

After attending lectures, students should master the basics of morphological, anatomical and physiological traits of plants. Students will acquire knowledge that will be able to apply in the work with medicinal herbs.

17. Course content:

Introduction, subject, tasks and methods of botanical research, organization and plant cell function.
Plant cell, cell organelles, protoplast secretion products, cell wall.
Morphological Degrees of Organization; Histological organization.
Former and durable tissues; Parenchymal, epidermis, periderm.
Xylem, phloem, conductive bundles, mechanical tissue, excretory tissues.
Primary structure of the tree.
The structure of the leaf.
Root structure.
Metamorphosis of plants.
Basic concepts of physiology of plants. Water regime plants. Photosynthesis.
Respiration.
Growth and growth of plants.
Secondary plant metabolites.
Biotechnology.
Significance of plants in pharmacy.

18. Learning methods:

19. Assessment methods:

After half of the semester (in the 8th week), the students write a test I which includes the topic that has been discussed since then. The test consists of multiple choice tasks, simple retrieval tasks, or essay tasks, and image / schema of certain tissues / organs. The first test student can achieve a maximum of 20 points. In the 13th semester, the students write a test II, which covers the topic covered in the lectures from the second part of the semester. The second test student can achieve a maximum of 20 points. As part of the pre-requisites, students are required to prepare individual or group seminar work that will cover a specific topic from the content of the subject. The seminar paper is submitted in writing and reviewed and then presented orally. All group students whose participation is valued individually participate in the creation and presentation of group seminar work. For the seminar work delivered and presented, the student can achieve 0 to 5 points. For continuous activity and presence in lectures and exercises throughout the semester, students can achieve 0 to 5 points.

20. Assessment components:

The final exam is oral. All students have the right to go to the final exam. The maximum number of points a student can achieve on the final exam is 50. The minimum number of points on the final exam is 25.
The assessment of the exam is based on the total number of points the student has obtained by fulfilling the pre-requisites and passing the exam and is determined according to the following scale:
Student Obligations Points
Attendance 5
Seminar paper 5
Tests during the course (T1 + T2) 40
Final Exam 50

21. Required reading list:

1. Jančić, R. (2002): Botanika farmaceutika. Javno preduzeće službeni list SRJ, Beograd
2. Denffer, D., Ziegler, H. (1982): Botanika-morfologija i fiziologija, Školska knjiga, Zagreb.
3. Kojić, M., Pekić, S., Dajić, Z. (2001): Botanika. Beograd.

22. Web sources:

(max. 687 characters)

23. Applicable starting from the academic year:

(max.10)

24. Adopted in the Faculty/Academy session: