

## SYLLABUS

## 1. Course title:

PHARMACEUTICAL BOTANICS II

## 2. Code:

## 3. Cycle of study:

## 4. ECTS credits:

## 5. Type of course:

 Mandatory  Elective

## 6. Prerequisites:

## 7. Class restrictions:

## 8. Duration / semester:

## 9. Weekly contact hours:

9.1. Lectures:

2

9.2. Seminars:

0

9.3. Laboratory/Practice classes:

3

## 10. Faculty:

Faculty of pharmacy

## 11. Department/study program:

Pharmacy (integrated 1st and 2nd cycles)

## 12. Lecturer:

dr.sc. Sanida Bektić, docent

## 13. Lecturer's e-mail:

sanida.osmanovic@untz.ba

**14. Web site:**

**15. Course aims:**

Nomenclature, Taxonomy and Plant Classification Systems. Overview of Biosystematic Plant Groups. The basic properties of a group of plants and selected medicinal species. Use of botanical literature. Identification and classification of medicinal herb species. The course will prepare students for pharmacognosy monitoring.

**16. Learning outcomes:**

After the lectures, students should acquire knowledge on the application of botanical nomenclature, identification and classification of plant species with special reference to medicinal herb species.

**17. Course content:**

Systematics of plants, morphology, taxonomy and phothemic characteristics of plants.

Algae, mushrooms, lichens, mosses, ferns.

Gymnospermae, Gnetopsida, Ginkopsida, Pinopsida,

Magnoliales Piperales,

Ranunculales, Papaverales

Fagales, Urticales,

Rosales, Fabales,

Myrtale, Rutales,

Geraniales, Rhamnales,

Euphorbiales, Santales

Apiales, Theales, Capparales, Malvales, Ericales,

Primulales, Caryophyllales, Polygonales,

Gentianales, Dipsacales, Oleales,

Polemoniales, Scrophulariales Lamiales

Asterales, Zingiberales, Liliales, Orchidales, Poales, Arales

**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 15 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 15 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. The pre-event activity includes the laying of herbariums for which students can win from 0 to 5 points as well as the practical part of the exam (colloquium) where they can win a maximum of 10 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**

Herbarium 5

Seminar paper 5

Colloquium 10

Tests during the course (T1 + T2) 30

Final Exam 50

**21. Required reading list:**

1. Ehrendorfer, F., Magdefrau, M. (1982) Botanika-sistematika i geobotanika, Školska knjiga, Zagreb.
2. Jančić, R. (2002) Botanika farmaceutika. Javno preduzeće Službeni list SRJ, Beograd

**22. Web sources:****23. Applicable starting from the academic year:**

2012/2013

**24. Adopted in the Faculty/Academy session:**