SYLLABUS

1. Course title:

BOTANY

2. Code:

3. Cycle of study:

1

4. ECTS credits:

5

5. Type of course:

(•) Mandatory ( ) Elective

6. Prerequisites:

No prerequisites

7. Class restrictions:

No class restrictions

8. Duration / semester:

1 2

9. Weekly contact hours:

9.1. Lectures:	3
9.2. Seminars:	0
9.3. Laboratory/Practice classes:	2

10. Faculty:

Faculty of Technology

11. Department/study program:

Agronomy

12. Lecturer:

Samira Huseinović, Ph.D. assistant professor

13. Lecturer's e-mail:

samira.huseinovic@untz.ba

14. Web site:

www.tf.untz.ba

15. Course aims:

This module has the goals and tasks of systematically designed plans and customized programs to enable students to become familiar with the anatomy of plants, to gain knowledge of the biosynthesis and morphology of higher plants, in particular their origin, evolution, adaptation, differentiation, divergence and the emergence of the earliest terrestrial plants, then the taxonomic categories of agronomy, which would make it theoretically and practically easier to master and fundamentally educate about philosophy, biodiversity and nomenclature plants, primarily crops of crops.

16. Learning outcomes:

After regularly attended lectures, conducted laboratory exercises and successfully passed course, students are enabled to complete their studies in the following years with adequate literature. Exam marks can be formed verbally, based on successful seminars, laboratory exercises, test I and test II, all that is required by the Botany module.

17. Course content:

Introduction, the basis of systematics and nomenclature of plants. Tasks and methods of phylogenetic systematics. Telomedicity and basic principles in the evolution of field cultures. Taxonomic units and categories. The concept of species and the need for identification of plants. Adaptation of differentiation, divergence, formation of first land plants. Botany and agronomy. Herbal cells, herbal cell construction, cellular organelles, plastids, chloroplasts, protoplast secretion products, cell wall. Formal tissue, vegetation cone, division into meristem. Permanent tissue. Primary structure of dicotyledonous tree, primary monocotyledonous material, secondary tree of tree. Leaf; Flower; Seeds, fruits, cereals. Relationship of cereals to climatic conditions. Wheat, rye, barley, oats, maize, cheese, rice, buckwheat.
Yarn crops. Hemp, flax. Tobacco industry. Fodder crops. field bean, lupine, clover. Gymnospermae; Gnetopsida, Ginkopsida, Pinopsida. Magnoliales; Piperales.
Bread Plants, Tea Plants, Spicy Plants;

18. Learning methods:

Lectures - Method of exposure, perception, talk, field research method, method of analysis and synthesis of the results of field exercises.
Laboratory Exercises - Method of microscopy and determination of plants using a key.

19. Assessment methods:

Written methods (test I, test II), a practical exam (colloquium) is a laboratory, with the aid of a microscope and a key for determining the plants.
Oral Methods (final exam). The final part of the exam that will be held verbally, the student can access after passing the practical part of the exam (gained 6 points out of 10) and passing herbaria.
Test I
Test I includes knowledge checking after 7 weeks of lectures. At the test, a student can earn up to 15 points.
Test II
Test II includes knowledge checking after 13 weeks of lectures. At Test I student can achieve a maximum of 15 points.
PRACTICAL EXAM
During practical exercises, a continuous assessment of student knowledge will be carried out (colloquium of laboratory practice). And after 15th week, students will access the practical part of the exam, which carry a maximum of 10 points a colloquium exam lasts two teaching class.
FINAL EXAM
A student who successfully fulfilled all obligations, took Test I, Test II, a practical exam (where he won at least 6 points, passed the herbarium, take the final exam (orally), and at the final exam the student can achieve a maximum of 50 points.

20. Assessment components:

Maximum number of points	
Test I	15
Test II	15
Practical exam-colloquium	10
Seminar work	5
Herbarium	5
Final exam	50
Total	100

To pass, the student must have at least 54 points, or gade six (6).

21. Required reading list:

1. Magdefrau K. Ehrendofer F. (1997): "Botanika, sistematika, evolucija i geobotanika", ŠK Zagreb.
2. Tatić B., Blečić V. (1984): "Sistematika i filogenija viših biljaka", Beograd.
3. Vladimir Ranđelović (2008): Botanika, Niš.

22. Web sources:

23. Applicable starting from the academic year:

2016/2017

24. Adopted in the Faculty/Academy session: