# SYLLABUS

**1. Course title:**

MEDICINAL AND AROMATIC PLANTS

**2. Code:**

**3. Cycle of study:**

1

**4. ECTS credits:**

3

**5. Type of course:**

◯ Mandatory　　◉ Elective

**6. Prerequisites:**

No prerequisites

**7. Class restrictions:**

No class restrictions

**8. Duration / semester:**

1　　6

**9. Weekly contact hours:**

9.1. Lectures: 2

9.2. Seminars: 0

9.3. Laboratory/Practice classes: 1

**10. Faculty:**

Faculty of Technology

**11. Department/study program:**

Agronomy

**12. Lecturer:**

**13. Lecturer's e-mail:**

**14. Web site:**

www.tf.untz.ba

**15. Course aims:**

Introduce students to the biology and ecology of medicinal and aromatic plants, as well as the technological solutions of cultivation and industrial processing of the main species of medicinal and aromatic plants.

**16. Learning outcomes:**

After successfully passing the course students will be able to:
- identify medicinal and aromatic plants in natural habitats
- select and apply a certain model of production technology depending on the main characteristics of the species, growing media and agroecological factors
- Identify the diseases and pests of medicinal and aromatic plants and implement the measures of their suppression
- manage the process of production, processing and product finalization
- to predict the yields and the quantity of products

**17. Course content:**

Herbal Treatment - Phytotherapy. Plant active substances. The influence of ecological and anthropological factors on the quantity and composition of herbal drugs. The technology of growing plants of Lamiaceae. The technology of growing, family Apiaceae and Valerianaceae. The technology of growing, family Papaveraceae. Forms of herbal remedies. Procedures for obtaining herbal extracts and essential oils. Poisonous and Carcinogenic Plant Ingredients. Herbal allergens.

## 18. Learning methods:

Learning methods in the course are:
- lectures with the use of multimedia resources,
- learning with active participation and discussion of students
- laboratory exercises

## 19. Assessment methods:

After half of the semester (in the 8th week), students take the writing test, which includes previously treated topics from lectures and exercises. The student can achieve a maximum of 20 points on the first test. In the 13th week of the semester, students take the writing test, which includes previously treated topics from lectures from the second semester. The student can achieve a maximum of 20 points on the second test. All students take both tests on the subject at the same time, thereby achieving uniformity of the level of knowledge that is being tested, as well as the conditions under which the student takes the exam. For a continuous activity in lectures throughout the semester, the student can achieve 0 to 10 points. The final exam is written or 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.

Checks on all forms of knowledge are recognized as a cumulative test if the result is positive after each individual check and is at least 50% of the total of the predicted and / or required knowledge and skills.

In order to pass the course, a student must have at least 54 cumulative points of which at least 25 points on the final exam.

**20. Assessment components:**

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 |
|---|---|
| Presence and activity in class | 10 |
| Test I | 20 |
| Test II | 20 |
| Final Exam | 50 |
| Total | 100 |

**21. Required reading list:**

1. Stepanović B., Radanović D., Turšić I., Nemčević N., Ivanec J., (2009): Uzgoj ljekovitog i aromatičnog bilja. Jan-Spider d.o.o., Pitomača

2. Toplak Galle, K. (2009): Domaće ljekovito bilje, Mladinska knjiga Založba, Ljubljana

**22. Web sources:**

**23. Applicable starting from the academic year:**

2016/2017

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