SYLLABUS

1. Course title:

Pharmaceutical technology II

2. Code:

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3. Cycle of study:

1

4. ECTS credits:

9

5. Type of course:

(●) Mandatory ( ) Elective

6. Prerequisites:

There are no prerequsites for studing this subject.

7. Class restrictions:

None.

8. Duration / semester:

1 8

9. Weekly contact hours:

	Semester (1) 8	Semester (2) 8
9.1. Lectures:	5	
9.2. Seminars:	0	
9.3. Laboratory/Practice classes:	4	

10. Faculty:

Faculty of Pharmacy

11. Department/study program:

Pharmacy (integrated 1st and 2nd cycles)

12. Lecturer:

Merima Ibišević, phD; Assistant professor

13. Lecturer's e-mail:

merima.ibisevic@untz.ba

14. Web site:

www.farmacy.untz.ba

15. Course aims:

The aim of the Pharmaceutical Technology II course at the Faculty of Pharmacy is to introduce students to the basic principles of industrial production of pharmaceutical forms and to acquire knowledge about the latest technological procedures for the production and testing of medicinal forms.

16. Learning outcomes:

Acquiring knowledge and understanding of technological procedures of production and testing of pharmaceutical forms in industry.

17. Course content:

- Regulations, DAP, GMP; Preformulation testing and quality assurance; Sterilization, sterility testing
- Microbiological quality of pharmaceutical products
- Water for pharmaceutical use (distillation, ion exchangers, reverse osmosis)
- Parenteral forms (injections, infusions)
- Blood, blood derivatives, serums, vaccines, radiological solutions
- Inhaland, aerosols
- Capsules
- Coated solid medicinal forms (tablets, dragees, film-coated tablets, capsules)
- Oral dosage forms with controlled, prolonged and delayed action
- Homeopathy
- Galenic analytics
- Packaging materials and technology
- Incompatibilities, stability and stabilization of medicinal forms.

18. Learning methods:

The lectures will cover the entire course material. Student attendance is mandatory.
Laboratory exercises will take place in two cycles, following the syllabus.

19. Assessment methods:

Activity - through attendance at lectures and exercises, a student can earn 0-10 points.
I and II colloquium - are done as part of laboratory exercises, and include the theory and recipes covered in the exercises. Colloquies carry a maximum of 20 points each.
The final exam - the knowledge check implies the consolidation of the entire material covered. The maximum number of points that a student can get on the final exam is 50, and 30 points are required to pass. The exam is held in writing and/or orally.

The number of points is determined according to the following scale:
Activity 0-10
I colloquium 12-20 points
II colloquium 12-20 points
Final exam 30-50 points

20. Assessment components:

10 (A)-95-100 -outstanding performance without errors or with minor errorss
9 (B)-85-94 -above the average, with some errors
8 (C)-75-84 -average, with noticeable errors
7 (D)-65-74 -generally good, but with significant shortcomings
6 (E)-55-64 -meets the minimum criteria
5 (F,FX)<55 -does not meet the minimum criteria

21. Required reading list:

Sabira Hadžović (2005), Farmaceutska tehnologija: Industrijska farmacija, Sarajevo.
Romana Senjković (1994). Osnovi oblikovanja lijekova, Školska knjiga, Zagreb.

22. Web sources:

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23. Applicable starting from the academic year:

2018/19

24. Adopted in the Faculty/Academy session:

17.11.25.