SYLLABUS

1. Course title:

Pharmaceutical technology I

2. Code:

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3. Cycle of study:

1

4. ECTS credits:

8

5. Type of course:

(•) Mandatory ( ) Elective

6. Prerequisites:

There are no prerequsites for studing this subject.

7. Class restrictions:

None.

8. Duration / semester:

1 7

9. Weekly contact hours:

	Semester (1)	Semester (2)
Total	7	
9.1. Lectures:	4	
9.2. Seminars:		
9.3. Laboratory/Practice classes:	3	

10. Faculty:

Faculty of Pharmacy

11. Department/study program:

Pharmacy (integrated 1st and 2nd cycles)

12. Lecturer:

Vera Kerleta - Tuzović, phD;

13. Lecturer's e-mail:

vera.kerleta@untz.ba; vkerleta@gmail.com

14. Web site:

www.ff.untz.ba

15. Course aims:

The aims of the course is to acquaint students with the basic principles of the formulation of medicinal preparations and to acquire knowledge about the latest technological processes in manufacturing and testing of medicinal forms.

16. Learning outcomes:

Following the attendance of obligatory lectures and practical classes, students are competent to understand the main principles of the formualtion of medicinal preparations.

17. Course content:

Basic Operations; Physical and physico-chemical basis (solubility, density, surface tension, rheology); auxiliary substance in the preparation of medicinal forms and their division; Establishing isohydration and buffers; Basics biopharmacy; Medicinal forms obtained extraction of drugs; Dispersed systems (emulsions, suspensions, syrups); semi-solid dosage forms (pads, ointments, pastes) and patches; Medicinal forms of eye / nose / ears, and solid dosage forms (soaps, rectal, and vaginal preparations), powders, granules, pellets (production tests), tablets (production tests); microparticulate systems (micro and nanoparticles, liposomes); therapeutic systems

18. Learning methods:

Lectures will cover the entire material provided by the curriculum. The presence of students in class is mandatory. Working material from the lectures will be available to students.
Experimental exercises will be held in two cycles, each of which ends with a test. Experimental exercises in principle follow the proper teaching units with teaching.

19. Assessment methods:

Within the hourly rate of experimental exercises will be held two tests, both for a period of 60 minutes, with themes relating to the theoretical basis of the upcoming exercises and own experimental procedures. Completely material relating to work in the workshop and theoretical basis are contained in the Practicum of pharmaceutical technology I.
Midterm examination is taken before completion of the first and second cycles of lectures to students showed readiness to join the exercises and to have the necessary basic knowledge.
Upon completion of the exercise and successfully passed the preliminary exams, student access to the practical part of the exam, which lasts 90 minutes and the same is eliminatory for taking the oral exam.
The student can take the oral examination only after passing exams and a positive assessment of the practical part. This exam can be taken orally or in writing.

20. Assessment components:

Colloquiums carry 10 points, the minimum necessary to win 6 points (both theory and tasks).

21. Required reading list:

Rudolf Voigt (2000), Pharmazeutische Technologie, DAV Stuttgart
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:

2012/13

24. Adopted in the Faculty/Academy session: