SYLLABUS

1. Course title:

Pharmacokinetics and biopharmaceutics

2. Code:

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3. Cycle of study:

1

4. ECTS credits:

5

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

10. Faculty:

Faculty of Pharmacy

11. Department/study program:

Pharmacy (integrated 1st and 2nd cycles)

12. Lecturer:

Saša Pilipović, phD;

13. Lecturer's e-mail:

sasa.pilipovic@untz.ba

14. Web site:

www.ff.untz.ba

15. Course aims:

The aims of the course are to: acquiring knowledge, skills and attitudes (communication) of pharmacokinetics. The student must understand the kinetic processes by which the drug is subject in the body, kinetic analysis and charact pharmacocinetics parameters. in setting the dosing regimen of drugs.

16. Learning outcomes:

Acquisition of knowledge and understanding of the process of pharmacokinetic drug effects and the emergence of certain diseases and the clinical significance of certain pharmacokinetic parameters determination in biological material.
The pharmacokinetic laboratory learning and methods in the field of clinical pharmacokinetics.

17. Course content:

Introduction to pharmacokinetics; The absorption of drugs; The distribution of drugs; biotransformation; The excretion of drugs; Pharmacokinetics in children; The pharmacokinetics in the elderly; Pharmacokinetics in patients with liver and kidney disease; Pharmacokinetics in conditions of obesity; Toxokinetics; Bioavailability of drugs; Drugs in cardiovascular diseases; antiasthmatics; antiepileptics; antibiotics; cytostatics; Immunosuppressive drugs; Psycho; Calculation of pharmacokinetic parameters; Simulation of accumulation; Drugs short half-life time; Medications long half-life time.

18. Learning methods:

Lectures will cover the entire material provided by the curriculum. The presence of students in class is required, which will be kept by signing or polling. 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 45 minutes, with themes relating to the theoretical basis of exercises and same experimental procedure. The materials relating to the work in the workshop and theoretical basis are contained in the Manual for practical classes which are recommended in the literature, and in the working materials that students receive on exercises.
The theoretical knowledge will be carried out through two tests and final exam.

20. Assessment components:

Activity in lectures 5 points
Activity in training 5 points
First colloquium 10 points
Second colloquium 10 points
Final exam 70 points.
For colloquia is minimum 6 points, and the final exam 40 points.

21. Required reading list:

Francetić i D. Vitezić, Osnove kliničke farmakologije, Medicinska naklada, Zagreb 2007.
Franjo Plavšić, Ana Stavljenić, Božidar Vrhovac. Osnove kliničke farmakokinetike. Zagreb : Školska knjiga, 1992.

22. Web sources:

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23. Applicable starting from the academic year:

2012/13

24. Adopted in the Faculty/Academy session: