SYLLABUS

1. Course title:

Analysis and controle of drugs I

2. Code:

3. Cycle of study:

1

4. ECTS credits:

5

5. Type of course:

◉ Mandatory　　　　○ Elective

6. Prerequisites:

Pharmaceutical chemistry

7. Class restrictions:

8. Duration / semester:

1　　5

9. Weekly contact hours:

9.1. Lectures:　　2

9.2. Seminars:　　0

9.3. Laboratory/Practice classes:　　2

10. Faculty:

Faculty of pharmacy

11. Department/study program:

Pharmacy (Integrated study I and II cycle)

12. Lecturer:

dr.sc. Alija Uzunović, docent

13. Lecturer's e-mail:

alija.uzunovic@gmail.com

14. Web site:

15. Course aims:

Acquiring knowledge and skills in the field of analysis and control of drugs. Understanding the requirements, means and methods for the control of drugs.

16. Learning outcomes:

At the end of the semester / course successful students, who during the entire period of teaching continuously perform their duties, will be able to apply their knowledge of medicine control routine analysis to drugs in drug control laboratories and research.

17. Course content:

1. Official legislation and regulations related to testing and control of medicines in Bosnia and Herzegovina (national and European regulations)
2. Qualitative and quantitative analysis of drugs Pharmacopoeia and overview of physical and chemical methods
Third officinal regulations and drug monograph
4. Study of impurities and degradation products of drugs according to the official regulations
5. Preparation of the sample in drug control
6. Profile physical and chemical properties of pharmaceutical substances as well as criteria for the selection of methods for pharmaceutical analysis
The melting point of the seventh control drug
8. Methods of analysis and titration of drug control
9. The use of drugs to control refractometry
10. The use of polarimetry in drug control
11. The use of UV / VIS spectrophotometry and derivative control of the drug
12. The use of IR spectrophotometry in drug control
13. Identification of chemical reactions solid and liquid inorganic and organic medicinal compounds
14. Biological control of drugs

18. Learning methods:

1. Lectures - Students are required to attend lectures and to actively participate in them
2. Exercises - Students are required to do the scheduled number of experimental exercises, pass the test or do the seminar as part of the pre-exam activities.
3. Seminar - Students write on the basis of the collected literature on a given topic and orally defend it.

19. Assessment methods:

For each of these methods give a description of their contents.

Written test: First test and examination.

Written test: test Student test to be won 16 points out of 30 provided as a pre-exam activities. The test consists of 10 questions which carries 1 or 2 points.

The written test /: The exam the exam can earn 70 points out of 100. The test consists of 15 questions shorter wear points 2 and 10 carry longer issues the 4 points. Total: 25 questions (70 points).

Students can take the exam in two parts. The first partial test comprising 10 questions (5 bearing the two points and 5 points that carry 4) and the second partial test comprising 15 questions (10 bearing a score of 2 and 5 which carry 4 points). The first partial exam student has passed when he won 16 points, and the other when he won 21 points. The student has the right to go out on a partial part of the exam once. If you do not put any partial part students solve the entire exam. The minimum number of points for the entire exam passed 37.

20. Assessment components:

Forming rating:
54-63 points: Rating (6)
64 to 73 points: Rating (7)
74-83 points: Rating (8)
84-93 points: Rating (9)
94-100 points: Rating (10)

21. Required reading list:

European Pharm.2010
British Pharm. 2010
USP 34-NF 29
Pharmaceutical Analysis, Nikolin, ober
Selected methods for pharmaceutical analysis, Zivanovic, 2003
Drug analysis, Ivanovic, Zecevic, 2004
Pharmaceutical analysis, Watson, 2005

22. Web sources:

23. Applicable starting from the academic year:

2012/13

24. Adopted in the Faculty/Academy session: