SYLLABUS

1. Course title:

Analytical methods in pharmacy

2. Code:

3. Cycle of study:

3

4. ECTS credits:

15

5. Type of course:

○ Mandatory ◉ Elective

6. Prerequisites:

(max. 110 characters)

7. Class restrictions:

(max. 150 characters)

8. Duration / semester:

1 3

9. Weekly contact hours:

9.1. Lectures: 1

9.2. Seminars: 0

9.3. Laboratory/Practice classes: 1

10. Faculty:

Faculty of Pharmacy

11. Department/study program:

Pharmaceutical sciences

12. Lecturer:

Alija Uzunovic, assistant professor

13. Lecturer's e-mail:

alijauzunovic@gmail.ba

14. Web site:

www.farmacy.untz.ba

15. Course aims:

Presentation of the actual knowledge about analytical methods in pharmacy and drug quality testing.
Introduction to the scientific methods and procedures which are used in analytical methods in pharmacy.

16. Learning outcomes:

Adoption of the new knowledge about analytical methods in pharmacy and drug quality testing.
Adoption to the scientific methods and procedures which are used in analytical methods in pharmacy.

17. Course content:

1. Inpurities and degradation products in active pharmaceutical substance, pharmaceutical product and methods for their testing.
2. Analytic of drug metabolite/toxine and biomarkers of pathophysiological conditions.
3. Toxicology screening
4.spectrochemical methods in drug analysis
5. Electrophoresis application in pharmacy
6.Corellation between qualitative and quantitative parameters in spectrochemical drug analysis
7. Biopharamceutical analysis of drug quality
8. Gama spectroscopy in drug analysis

18. Learning methods:

Lectures using multimedia
Students prepared essays on given topics

19. Assessment methods:

After the course is completed students are obliged to take an exam which covers the material presented during the course. The test consists of the section with multiple choice questions, and the section with the essay questions. Correct answer is worth 5 points, for multiple choice question, and 10 points for essay question.

20. Assessment components:

The exam is worth 100 points total, with 90 points worth for questions and 10 points worth for student's activity during lectures.

21. Required reading list:

1. Handbook of modern pharamceutical analysis, Ahija S, Scypinski S. 2005 (6), i 2011 (10). John Wiley and Sons
2. Pharmaceutical Anlysis: A textbook for pharmacy students and pharmaceutical chemists 2nd Ed., Wat D.G.

22. Web sources:

23. Applicable starting from the academic year:

2012/13.

24. Adopted in the Faculty/Academy session: