

SYLLABUS

1. Puni naziv nastavnog predmeta:

Toxicology with analytics

2. Skraćeni naziv nastavnog predmeta / šifra:**3. Ciklus studija:**

1

4. Bodovna vrijednost ECTS:

6

5. Status nastavnog predmeta: Obavezni Izborni**6. Preduslovi za polaganje nastavnog predmeta:**

none

7. Ograničenja pristupa:

none

8. Trajanje / semestar:

1

7

9. Sedmični broj kontakt sati:

9.1. Predavanja:

3

9.2. Auditorne vježbe:

0

9.3. Laboratorijske / praktične vježbe:

2

10. Fakultet:

Faculty of Pharmacy

11. Odsjek / Studijski program:

Pharmacy (integrated 1st and 2nd cycle)

12. Odgovorni nastavnik:

PhD Mirjana Djukić, full professor

13. E-mail nastavnika:

mirjana.djukic.cipa@gmail.com

14. Web stranica:

www.farmacy.untz.ba

15. Ciljevi nastavnog predmeta:

To teach students the basic principles of toxicology, toxico- kinetic and dynamic of poisons, classification of poisons, analytics, first aid and treatments of poisoning and meet students with special sections.

16. Ishodi učenja:

The knowledge and skills in the field of toxicology with analysts.

17. Indikativni sadržaj nastavnog predmeta:

The basic principles of toxicology: definition and classification of poisons, the relationship between chemical structure and toxicity, the types of poisoning, toxicity factors, toxicology analysis and interpretation of results, antidotes, emergency, toxico- kinetics and dynamics, toxins, mechanism of toxicity, target organ toxicity, the dose - response, toxicity tests (LD50). The study of poisons classified into the groups: gaseous poisons, poisoned volatile organic compounds, toxic minerals and poisons that are easily soluble in organic solvents.

Special Toxicology: substances of abuse, pesticides, toxins, genotoxicology, chemical carcinogens, water, soil and air pollutions, hazardous waste, the risk assessment, the legislative toxicology.

18. Metode učenja:

Lectures, laboratory lessons (L) and consultations.

19. Objašnjenje o provjeri znanja:

Lectures - through interactive lectures to introduce students with the basic concepts and principles of toxicology.
Experimental exercises - through practical experiments, students will demonstrate the level of acquired knowledge.
Consultation - through consultations, students can solve ambiguities and deepen the acquired knowledge.

20. Težinski faktor provjere:

Pre final activities (min 21, max 40 points)

- Presence on the classes (5),
- Experimental classes activity (5),
- Colloquium (10)
- Practical exam (20)

The final test (min 31, max 60 points)

21. Osnovna literatura:

1. Toksikologija. Jokanović M. Elit Medica, Beograd (2001).
2. Casarett & Doull's Toxicology: The Basic Science of Poisons. Curtis Klaassen. (2013)ISBN-13: 978-0071769235
3. Fundamentals of Analytical Toxicology. Robert J et al. (2008)ISBN: 9780470

22. Internet web reference:

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23. U primjeni od akademske godine:

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| 2012/2013 |
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24. Usvojen na sjednici NNV/UNV:

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