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Study program: Integrated Academic Stud	ies in Pharmacy			
Course title: Basics of Toxicology				
Teacher: Velibor M. Vasović, Branislava U.	Srđenović Čonić			
Course status: compulsory				
ECTS Credits: 3				
Condition: -				
Course aim				
The basic toxicology course is intended t	o provide students basic u	nderstanding of fundamental principals of to	oxicology, organ-	
specific toxicity, as well as legislation conc	erning manufacture, transp	ortation, disposal and decontamination of che	micals/poisons.	
Expected outcome of the course:				
Students will gain knowledge of the basic	principles of exposure to to	xicants, toxicity mechanisms, toxicokinetics an	nd toxodynamics,	
organ-specific toxic effects, as well as pre-	vention and treatment of p	oisoning. Students will be able to link hazard	, risk assessment	
and safety of poisons (chemicals)/poiso	ning in context of human	health and environment and recognize la	bels of chemical	
classification and procedures of safe hand	ling.			
Course description				
Theoretical education				
1. Introduction to toxicology, classification of toxic agents, characteristics of exposure, methods for toxicity tests				
2. Mechanisms of toxicity				
3. Absorption, distribution, metabolism and excretion of toxicants				
4. Toxicokinetics				
5. Genetic toxicology and chemical carci	nogenesis			
6. Toxic responses of the nervous system	า			
7. Toxic responses of the heart and vasc	ular systems			
8. Toxic responses of the kidney				
9. Toxic responses of the liver				
10. Toxic responses of the reproductive system				
11. Toxic responses of the respiratory system				
12. Toxic responses of the skin				
13. Diagnosis and evaluation of poisoning	, cardiopulmonary resuscita	tion of acutely intoxicated patients		
14. Prevention of further poison absorption				
15. Enhancement of poison elimination, a	intidotal therapy, symptom	atic therapy		
16. The most common medication poison	ings			
17. Chemicals management, the classifica	tion, labelling and packagin	g of chemical substances		
Practical education				
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Literature				
Compulsory				
1. Klaassen CD. Casarett & Doull's Toxico	ology: The Basic Science of P	oisons, 6th ed. US: McGraw-Hill; 2001.		
Additional				
1. True BL, Dreisbach RH. Dreisbach's Ha	andbook of Poisoning: Prev	ention, Diagnosis and Treatment. 13th ed. Ne	w York: Taylor &	
Francis; 2001.				
Number of active classes	Theoretical classes: 45	Practical classes: 0		
Teaching methods Lectures. Writing semir	nar papers through searchir	g available literature and electronic database	s.	
Student activity assessment (maximally 10	00 points)			
Pre-exam activities	Points	Final exam	Points	
Lectures	10	Written	1	

reaching methous Lectures. Writing sen	iniai papers through search	ing available interature and electronic data		
Student activity assessment (maximally 100 points)				
Pre-exam activities	Points	Final exam		
Lectures	10	Written		
Practices		Oral		
Colloquium				
Essay	20			