GENERAL INFORMATION							
Course	Toxicology						
Course coordinator	Prof. Martina Smolić, MD, PhD						
Assistant/Associate	Vjera Ninčević, MD, PhD Tea Omanović Kolarić, MD, PhD Nikola Raguž-Lučić, MD, PhD						
Study Programme	Integrated undergraduate and gradua Medicine in German language	te university study of					
Status of the course	Mandatory						
Year of study, semester	4th year, 7th semester						
Grading scale and	ECTS	2					
workload	Hours (L+S+E)	30 (15+10+5)					

COURSE DESCRIPTION

Course objectives

Basic terms and definitions in toxicology. Toxicokinetics. General and laboratory diagnostics in toxicology. Treatment of poisoning. Drug poisoning. Food poisoning Gas poisoning (asphyxiants/irritants). Corrosive. Insecticides/ rodenticides/herbicides. Battle poisons. Heavy metals. Plant poisons. Animal poisons. Narcotic drugs and addictive substances.

Enrolment requirements and entry competencies

There are no special requirements for this course except those defined by the curriculum of the entire study program.

Learning outcomes at the Programme level

1.1., 1.2., 2.1., 3.1., 3.2., 3.3., 3.5., 4.1., 4.2.

Learning outcomes (5-10)

Knowledge

- 1. Define basic terms in toxicology
- 2. Understand toxicokinetics

3. Understand and interpret general and laboratory diagnostics of the most common poisonings

4. Plan and apply general and special procedures for a poisoned patient

5. Describe the basic etiological factors, pathophysiological mechanisms, clinical picture, diagnostic and therapeutic procedures of the most common poisonings

skills

1. Apply general and special diagnostic and therapeutic procedures for poisoning.

Course content

1. Introduction to toxicology

- 1.1.1. history and toxicology
- 1.1.2. basic terms and definitions in toxicology
- 1.1.3. epidemiology and sources of poisoning

2. Toxicokinetics

2.1.1. physical and chemical nature of the poison

2.1.2. absorption, distribution, metabolism and elimination of poisons3. Clinical picture of poisoning and frequent toxin syndromes4. General and laboratory diagnosis of poisoning									
5. Therapeutic procedures for poisoning									
7. Food pois	6. Drug poisoning 7. Food poisoning								
8. Gas pois	onin	ig (asphyxi	iants/ir	ritant	s).				
9. Corrosive	es	0 (1)			,				
10. Insectici	ides	/ rodenticio	des/he	rbicid	es				
11. Battle p	oiso	ns							
12. Heavy n	neta	lls		1 -41	- 11:	4 - 1 -			
12.1.1.	. ars	enic, merc	cury, ie	ead, tr	naillum, other me	tais			
13. Plant pc	nois	is ons							
15 Narcotic	c dru	uds and ad	dictive	subs	stances				
		ige and de	Rlect	ures		<u> </u>			
			Seminars and			XIndependent tasks			
Modo of toach	ina		workshops						
	iiiig		⊠exe	rcises	6				
			distance education						
				d teac	hing				
Student obliga	atio	ns							
Students are e However, they	Students are expected to attend all class sessions, as well as to take all the examinations. However, they are allowed for excused absences, totalling 30% of all classes.								
Monitoring stu	ude	nt work			1	I	1	1	
Attending classes	x	Class ac	tivity	x	Seminar work		Experimental work		
vvritten exam	X	Oral exal	m	X	Essay		Research		
Project		knowledg	ge on		Paper		Practical work	x	
Portfolio									
Grading and evaluation of student work during classes and of the final examination									
Students' work is evaluated during classes and on the final exam. Students are evaluated numerically and descriptively (insufficient (1), sufficient (2), good (3), very good (4), excellent (5)). During the course, the student will be able to collect a maximum of 100 evaluation points. Students can earn a maximum of 20 points during classes through different forms of activities. At the final exam, students can obtain a maximum of 80 points. The final grade represents the sum of the grade points achieved during classes and on the final exam.									
Required reading									
1. Toxikologie für Naturwissenschaftler und Mediziner. Stoffe, Mechanismen, Prüfverfahren. Eisenbrand G, Manfred Metzler M, Hennecke FJ. Wiley-VCH; 3. Edition: 2005.									
Additional reading									
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Number of copies of required literature in relation to the number of students currently attending classes in the course

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Title	Number of copies	Number of students
Toxikologie für		
Naturwissenschaftler und		
Mediziner. Stoffe, Mechanismen,		
Prüfverfahren. Eisenbrand G,		
Manfred Metzler M, Hennecke FJ.		
Wiley-VCH; 3. Edition: 2005.		
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Course evaluation procedures

The quality of course performance is monitored through an anonymous student survey on the quality of the organization and conduction of classes, the course content and the work of professors. The usefulness of the lectures from the students' perspective, the curriculum content, the professor preparedness, the clarity of the presentation, the amount of new content and the quality of the presentation are evaluated. The curriculum and its execution are administratively compared. The participation of students in lectures and exercises, as well as the excuses for missing classes, are controlled and analyzed.