

Pomorski Uniwersytet Medyczny w Szczecinie

Pomeranian Medical University in Szczecin[PUM]

(COURSE) MODULE SYLLABUS General information

Name of Course: Toxicology				
Type of course	Mandatory			
PUM Faculty	Faculty of Medicine and Dentistry			
Field of study	Medicine			
Specialization	not applicable			
Level of study	Long-term studies			
Form of study	Full-time, part-time			
Year of study/semester of study	4th year, 7th and 8th semester			
Number of ECTS credits allocated	1			
Forms of teaching (number of hours)	seminars - 10 hours practical exercises - 20 hours $\Sigma = 30h$			
Methods of verification and assessment of learning outcomes	 graded credit: Descriptive credit test practical credit oral credit X credit without grade final exam: descriptive credit test practical credit oral credit 			
Head of Unit	Tomasz Janus PhD			
Teaching assistant professor or person responsible for the course	Barbara Potocka-Banaś Ph.D barbara.potocka.banas@pum.edu.pl			
Name and contact details of unit	Department of Clinical and Forensic Toxicology Tel. 0914661582			
Unit's website	http://zms.pum.edu.pl			
Language of instruction	English			

Detailed information

Course objectives Course objectives Course objectives Course objectives Course objectives Course objectives Course objectives Preliminary requirements in Skills Provi		followin - getting tasks pe - getting manager selected - practic - manag - carryin - interpr the clini Familian - toxicol - analyti Providir manager	he learning objective of the module is to acquire the oblowing skills : getting to know the principles of organization and asks performed by toxicological centres getting acquainted with general principles of nanagement and treatment of poisoning cases with elected xenobiotics practical mastering of the gastric lavage procedure management of the addicted patient carrying out simple toxicological tests interpretation of toxicological results in relation to ne clinical state of the patient amiliarity of : toxicology of drugs and psychoactive substances analytical methods used in toxicology roviding aid to the poisoned patient and selection of nanagement procedures		
		competences	The hab	it of self-education, tea	amwork
Learning outc	omes				
Number of learning outcome		udent who has completed of the COURSE knows/can:		SYMBOL (reference to) learning outcomes for the field of study	Method of verifying the learning outcomes*
W01	body to	consequences of exposure of the human body to various chemical and biological agents and principles of prevention		C.W15	
W02	the most important adverse drug reactions, including those resulting from drug interactions		C.W.39		
W03	knows the basic concepts of general toxicology		C.W.43		
W04		Knows groups of drugs which, if abused, can lead to poisoning		C.W.44	
W05	knows the symptoms of the most common acute poisonings, including alcohol, drugs, psychoactive substances, heavy metals and selected groups of drugs		C.W.45		
W06	knows the basic principles of diagnostic procedures in poisoning		C.W.46	ET	
W07		vs the basic principles of diagnostic edures in poisoning		C.W.48	
W08	assesses toxicological risks in specific age groups and in states of hepatic and renal insufficiency, and to prevent drug poisoning interpret the results of toxicological tests		C.U18		
W09				C.U19	
W10	perceives and recognizes his/her own limitations and carries out a self-assessment of his/her deficits and learning needs		K.5	ET	

W11	promote health-promoting behaviour	K.6	
W12	use objective sources of information	K.7	

Table of learning outcomes in relation to the form of classes

		Form of the classes							
Number of learning outcome	Learning outcomes	Lecture	Seminar	Practical exercises	Clinical exercises	Simulations	E-learning	Other forms	
W01	C.W15		Х						
W02	C.W.39		Х						l
W03	C.W.43		Х						ł
W04	C.W.44		Х						ł
W05	C.W.45		Х						ł
W06	C.W.46		Х						l
W07	C.W.48		Х						l
W08	C.U18			Х					Ì
W09	C.U19			Х					Ì
W10	K.5			Х					
W11	K.6			Х					
W12	K.7			Х					

TABLE OF CURRICULUM

Curriculum number	Curriculum	Number of hours	Reference to the learning outcomes for the CLASSES	
SEMINARS:	winter and summer semesters	10h		
TK01	General management, antidotes and various aspects of toxicology	1,0	C.W15	
TK02	Toxicology of selected drugs	2,0	C.W.39 C.W.43	
TK03	Poisoning by fungi and higher plants	1,0	C.W.44 C.W.45 C.W.46	
TK04	Psychoactive agents	2,0	C.W.40 C.W.48	
TK05	Toxicology of selected drugs	4,0		
Practical Exerc	ises: winter and summer semester	20h		
TK01	Analytical methods and management used in toxicology	4	C.U18	
TK02	Diagnosis of mushroom poisoning	4		
TK03	Gastric lavage	4	C.U19 K.5	
TK04	Toxicological tests, interpretations of results	4	K.6	
TK05	Cases of drug intoxications, interpretation of toxicological results	4	K.7	
Recommended Literature:				

Required literature:				
1. Clarke's analysis of drug anf poisons in pharmaceutical, body fluids and postmortem material.				
2011, fourth edition. Anthony C Moffat, M. David Osselton, Brian Widdop, Pharmaceutical				
Press.				
2. Goldfrank's Toxicologic Emergencies, Tenth Edition. Lewis R. Goldfrank, Robert S. Hoffman,				
Mary Ann Howland, Neal A. Lewin, Lewis S. Nelson. McGraw Hill / Medical.				
Supplementary literature:				
1. Ellenhorn's Medical Toxicology: Diagnosis and Treatment of Human Poisoning Subsequent Edition Matthew J. Ellenhorn, Williams & Wilkins				
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Student workload				
Form of student workload	Student workload [h].			
(participation in classes, activity, report				
preparation, etc.)	In the teacher's assessment (opinion)			
Contact hours with the teacher/instructor	30			
Preparation for practical	5			
exercises/seminar	5			
Reading the recommended literature	5			
Writing a lab/exercise report/preparing a	4			
project/paper, etc.	4			
Preparation for a test/short test	-			
Preparing for the exam	10			
Other	-			
Total student workload	54			
ECTS credits for the module/course	1 ECTS			
Notes				

*Example ways of verification of educational outcomes:

EP - written exam

- EU oral test
- ET test exam
- EPR practical test
- K test
- R paper
- S testing of practical skills RZĆ report from practical exercises with discussion of results
- O evaluation of student's activity and attitude
- SL Laboratory report
- SP case study
- PS assessment of ability to work independently
- W short test before the beginning of classes
- PM multimedia presentation
- and other