

Subject card

Subject name and code	Fundamentals of pharmacology, PG_00081942						
Field of study	Medical Biology						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2024/2025		
Education level	postgraduate studies	Subject group					
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			2.0		
Learning profile	academic	Assessment form					
Conducting unit	Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Elżbieta Kamysz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		0.0		0.0	30
Subject objectives	<p>C1. Acquisition of definitions and basic terms in the field of pharmacology. C2. Distinguishing the forms of medicines and their correct use. C3. Distinguishing the basic groups of medicines used in: diabetes, cancer therapy and diseases of the circulatory, respiratory and digestive system . Knowledge side effects of medicines and their interactions with other medicines and food products.</p> <p>C4. Understanding the mechanisms of action of drugs and the fate of drugs in the human body.</p>						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLMEDMU2_W01] has in-depth knowledge of scientific fields and disciplines relevant to medical biology and the specialty being studied, and knows their main development trends				[SW4] test/exam - oral or written		
	[BIOLMEDMU2_W02] is familiar with currently discussed problems in medical biology and related disciplines				[SW4] test/exam - oral or written		
	[BIOLMEDMU2_K01] is ready to critically assess themselves, the teams they work for and the content they receive				[SK4] test/exam - oral or written		

Subject contents	<ul style="list-style-type: none"> • Forms and routes of drug administration. • Research of new drugs. • General rules for the use of drugs, dosage, pharmacotherapy of children and the elderly. • Adverse effects, drug interactions. • Pharmacodynamics and mechanisms of drug action. • Pharmacokinetics. • Painkillers (narcotic and non-narcotic) and anesthetics. • Medicines used in cancer therapy. • Medicines used in diabetes. • Medicines used in hypertension. • Antimicrobial medicines. • Medicines used in the digestive system diseases. • Pharmacological basis for poisoning treatment. Medicine-related complications. 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
Recommended reading	Basic literature	<ul style="list-style-type: none"> • R. Olszanecki, P. Wołkow, J. Jawień, „Farmakologia”, PZWL, 2023; • E. Mutschler Farmakologia i toksykologia Urban & Partner, 2010; • E. Mutschler Kompendium farmakologii i toksykologii MedPharm 2008; • W.Kostowski, Z.S. Herman „Farmakologia”, PZWL 2014; • J.M. Ritter, R. Flower, G. Henderson, Y. Kong Loke, D. MacEwan, HP. Rang, „Rang i Dale Farmakologia”, Elsevier, 2020; • M. Pawłowski, „Chemia leków”, PZWL, 2020. 	
	Supplementary literature	G. Rajtar-Cynke Farmakologia Czelej, Lublin, 2002	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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