

Subject card

Subject name and code	Fundamentals of pharmacology, PG_00154193						
Field of study	Biology						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2024/2025		
Education level	postgraduate studies		Subject group		Optional 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							
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		4.0		16.0	50
Subject objectives	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. C4. Understanding the mechanisms of action of drugs and the fate of drugs in the human body.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	BIOLMU2_K01				[SK4] test/exam - oral or written		
	[BIOLMU2_U03] critically analyse and select biological information, in particular from electronic sources				[SU4] test/exam - oral or written		
	BIOLMU2_W03				[SW4] test/exam - oral or written		
	[BIOLMU2_W02] the principle of strict, empirically based interpretation of biological phenomena and processes in research work and practical activities				[SW4] test/exam - oral or written		

Subject contents	• 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	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td></td><td>51.0%</td><td>100.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade		51.0%	100.0%		
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Recommended reading	Basic literature	• 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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