

Subject card

Subject name and code	Fundamentals of pharmacology, PG_00081942						
Field of study	Chemistry						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study		
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			credit		
Conducting unit	Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. Elżbieta Kamysz				
	Teachers		prof. dr hab. Elżbieta Kamysz				
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.</p> <p>C2. Distinguishing the forms of medicines and their correct use.</p> <p>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		
	[CHEML3_W05] Has basic knowledge of the chemical specialisation studied.	Student: explains the basic terms and issues in the field of general pharmacology; knows the main mechanisms of action of medicines; has knowledge about the study of new medicines; is able to characterize selected groups of medicines; knows the procedure of reporting side effects; has a basic knowledge of the possible interactions between medicines and between medicines and nutrients.			[SW4] test/exam - oral or written		
	[CHEML3_K01] Identifies the level of her/his own knowledge and skills and the need for continuous learning and personal development.	Student: is able to use sources of information about medicines; is aware of the therapeutic and adverse effects of medicines; understands the need for continuous training and development as well as the search for new medicines.			[SK4] test/exam - oral or written [SK5] implementation of a problem task		

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		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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