

Subject card

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	• 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		
		51.0%	100.0%		
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				
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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