

Subject card

Pelied of study		EQUINDATIONS OF PHARMACOLOGY BC 00022007							
Date of commencement of studies Education level second-cycle studies Subject group Mode of study Full-time studies Mode of delivery at the university Year of study 1 Language of instruction Semester of study 2 ECTS credits 3.0 Learning profile general academic profile Assessment form assessment Conducting unit Name and surname of lecturer (locturers) Lesson types and methods of instruction Learning activity and number of study hours Learning activity and number of study hours Subject objectives The aim of this subject is to give the elemental knowledge on th mode of action of drugs on the human body. Pharmacokinetic process describes absorption, distribution, metabolism and elimination of the drug in the body and/or core and can propose a less onercous method of synthesis of the implemental of a synthesis of the implemental of all synthesis of the implemental or all propose or an attention of the drug in the body and/or coll and can propose a less onercous method of synthesis of the implemental or any propose or any and propose or any any and process of any any and propose or any any and process of any part of the subject is to find the implemental or any propose a less onercous method of synthesis of the implemental or any propose a less onercous method of synthesis of the implemental or any propose and part of a synthesis of the implemental or any propose and part of any propose or any any and part of the drug in the body and or cell and of any propose and part of any propose or any p	•	FOUNDATIONS OF PHARMACOLOGY, PG_00038907							
Education level Second-cycle studies Subject group Optional subject group Mode of study Full-time studies Subject group Act the university Year of study Full-time studies Mode of delivery at the university Year of study 1	•								
Mode of study		February 2024					2024/2025		
Year of study	Education level	second-cycle studies		Subject group		Optional subject group			
Semester of study 2 ECTS credits 3.0	Mode of study	Full-time studies		Mode of delivery		at the university			
Learning profile general academic profile Assessment form assessment Conducting unit Department of Pharmaceutical Technology and Biochemistry >> Faculty of Chemistry Subject supervisor Teachers Lesson types and methods of instruction Learning activity and number of study hours Learning activity Lea	Year of study	1		Language of instruction			Polish		
Department of Pharmaceutical Technology and Blochemistry >> Faculty of Chemistry	Semester of study	2				3.0			
Name and sumame of lecturer (lecturers) Teachers	Learning profile	general academic profile		Assessment form			assessment		
Teachers Teachers Teachers	Conducting unit	Department of Pharmaceutical Technology and Biochemistry -> Faculty of Chemistry							
Lesson types and methods of instruction		Subject supervisor							
Number of study 15.0 0.0 0.0 0.0 0.0 15.0 30	of lecturer (lecturers)	Teachers							
Learning activity and number of study hours			Lecture	Tutorial	Laboratory		t	Seminar	SUM
Learning activity and number of study hours Participation in didactic classes included in study hours Subject objectives The aim of this subject is to give the elemental knowledge on the mode of action of drugs on the human organism Pharmacokinetic process describes absorption, distribution, metabolism and elimination of the drug drug from the human body. Pharmacodynamic process describes the interaction of the drug with the receptor, i.e. explains the pharmacological effect observed after administration of the drug.	of instruction	,	15.0	0.0	0.0	0.0		15.0	30
Course outcome Student bases on the compound can propose a mechanism of detaxification (metabolism) of a given molecule.		E-learning hours inclu			1				
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organism Pharmacokinetic process describes absorption, distribution, metabolism and elimination of the drug from the human body. Pharmacodynamic process describes the interaction of the drug with the receptor , ie. explains the pharmacological effect observed after administration of the drug. Course outcome K7_W02 Student based on the chemical structure of the compound can propose compartment of distribution of the drug in the body and/or cell and can propose a mechanism of detoxification (metabolism) of a given molecule. K7_K02 Student has a knowlage and understand the stages of implementing new medicines. Is aware of the scale of synthesis of the implemented drugs and is able to optimize and/or propose a less onerous method of synthesis of implemented/existing drugs. K7_U01 Student is able to collect information and present the synthesis part the synthesis part the synthesis and their mapet on the human body (pharmacokinetics and pharmacodynamics). Student understands the problems of drug synthesis and can propose an alternative way to obtain active substances. Subject contents Basic consideration. Drug action. Pharmacokinetic phase. Routes of drug administration. Absorpion of drugs. Barriers of absorpion. Mechanism od absorpion - diffusion, active transport, phagocytosis. Distribution of drug. Biotransformation. Pharmacokinetic parameters. Bioavailability. Therapuetic concentration. Toxic concentration. Pharmacokinetic praces of new drugs. Series of absorpion. Mechanism od absorpion - diffusion, active transport, phagocytosis. Distribution of drug. Biotransformation, Pharmacokinetic parameters. Bioavailability. Therapuetic concentration. Toxic concentration. Pharmacokinetic prace of new drugs. Series of absorpion Agonists and antagonists. Dose effe curves. Allergic reactions. Underseirable and toxic effects of drug action. Design and testing of new drugs.			30		5.0		40.0		75
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Prerequisites Knowledge of Biochemistry is recommended and co-requisites		Knowledge of Biochemistry is recommended							

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Written exam - 90 minutes .	60.0%	66.0%		
	Multimedial presentation on a given subject during seminar	60.0%	34.0%		
Recommended reading	Basic literature	"Farmakologia i Toksykologia". Praca zbiorowa pod redakcją E.Muchler. Wydawnictwo Medyczne Urban & Partner. Wrocław 2004 "Toksykologia". Pod redakcją W. Seńczuka. Wydawnictwo Lekarskie PZWL. Warszawa 1999 "Farmacja stosowana. Pod redakcją S.Janickiego, A.Fiebiga i M.Sznitowskiej. Wydawnictwo Lekarskie PZWL. Warszawa 2005			
	Supplementary literature	No requirements			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	In what compartment of the body / cells will be located medicines with high lipophilicity? How to improve the solubility of organic active substances in the aqueous solutions?				
Work placement	Not applicable				

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