



Subject card

Subject name and code	CHEMISTRY OF ANTIBIOTICS AND VIDAMINUS, PG_00038904						
Field of study	Chemistry						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group			Optional subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Pharmaceutical Technology and Biochemistry -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Andrzej Skwarecki				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	15.0	45
	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	45		5.0		25.0	75
Subject objectives	The aim of the subject is to familiarize the student with the basic issues of antimicrobial drugs chemistry						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	K7_W02		The student knows the basic biochemical processes occurring in the human body and has basic knowledge of organic chemistry The student knows the main groups of antimicrobial drugs			[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation	
	K7_K01		The student works in groups and solves given problems of antibiotic chemistry			[SK1] Assessment of group work skills	
	K7_U01		The student is able to divide antimicrobial drugs into specific groups. The student is able to recognize chemical structures of antimicrobial drugs. The student is able to present antimicrobial drugs' mechanisms of action			[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task	
Subject contents	Antibacterial drugs. Antifungal drugs. Antiprotozoal drugs. Antiparasitic drugs. Antiviral drugs. Anticancer antibiotics. Sources of lead compounds. Optimization of lead compounds.						
Prerequisites and co-requisites	General knowledge of organic chemistry and biochemistry						
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	Oral presentation		60.0%			20.0%	
	Exam		60.0%			80.0%	
Recommended reading	Basic literature		"Chemia Medyczna. Podstawowe zagadnienia" G.L. Patrick. Wydawnictwa Naukowo-Techniczne. Warszawa 2005				
			"An introduction to medicinal chemistry" G.L. Patrick. Oxford University Press. Nowy Jork 2017				
	Supplementary literature		Recent scientific papers of antibiotics chemistry				
	eResources addresses		Adresy na platformie eNauczanie:				

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