

Subject card

Subject name and code	Antibacterial Drugs, PG_00058246								
Field of study	Biotechnology								
	February 2024	Acadamia year of			0004/0005				
Date of commencement of studies	i Guidaly 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish	Polish		
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Pharmaceutical Technology and Biochemistry -> Faculty of Chemistry								
Name and surname	Subject supervisor	dr inż. Andrzej Skwarecki							
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t Seminar		SUM	
of instruction	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 classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours 30			5.0		40.0		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_K02] is aware of the limitations and the necessity of continuous development of knowledge and technology; understands the need for education and constant training		The student solves problems in group work. The student proposes structural modifications of antibiotics leading to their improvement in the field of stability and activity.			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice			
	[K7_W02] has advanced knowledge of structure and activity of enzymes and biologically active compounds also in pharmacological context, knows basic instrumental methods of qualitative and quantitative analysis and activity studies of biomolecules		The student is able to divide antimicrobial drugs into specific groups. The student is able to recognize chemical structers of antimicrobial drugs. The student is able to present antimicrobial drugs' mechanisms of action			[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
[K7_U04] is able to predict potential properties of biomolecules and biologically active compounds on the basis of knowledge of their chemical structure and apply methods of molecular modelling of biomolecules		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			[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment				
Subject contents	Antibacterial drugs. Antifungal drugs. Antiprotozoal drugs. Antiparasitic drugs. Antiviral drugs. Anticancer antibiotics								
Prerequisites and co-requisites	General knowledge of organic chemistry and biochemistry								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Final exam		60.0%			100.0%			

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Recommended reading	Basic literature	"Chemia Medyczna. Podstawowe zagadnienia" G.L. Patrick. Wydawnictwa Naukowo-Techniczne. Warszawa 2005
		"An itroduction to medicinal chemistry" G.L. Patrick. Oxford University Press. Nowy Jork 2017
	Supplementary literature	"Wybrane zagadnienia z metod poszukiwania i otrzymywania środków leczniczych" Pod redakcją Katarzyny Kieć-Kononowicz. Wydawnictwo Uniwersytetu Jagiellońskiego. Kraków 2006
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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