GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	CHEMISTRY OF ANTIBIOTICS AND VIDAMINUS, PG_00038904		
Field of study	Chemistry		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
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_U01	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	[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information
K7_K01	The student works in groups and solves given problems of antibiotic chemistry	[SK1] Assessment of group work skills
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	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge

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
Exam	60.0%	80.0%
Oral presentation	60.0%	20.0%

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	Recent scientific papers of antibiotics chemistry
eResources addresses	Adresy na platformie eNauczanie:

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

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