



Subject card

Subject name and code	Chemistry of Natural Products, PG_00054724						
Field of study	Biotechnology						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study 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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Organic Chemistry -> Faculty of Chemistry -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Krystyna Dzierzbicka				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	Discussion of individual groups of natural compounds and methods for their preparation. Student identifies separate class of natural compounds. Student draws a correct structural formulas of natural compounds and presented method of their synthesis.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W03		the student has knowledge about the properties of natural compounds and methods of obtaining them		[SW1] Assessment of factual knowledge		
	K6_U02		the student has knowledge about the properties of natural compounds and methods of obtaining them		[SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information		
Subject contents	1. Amino acids and peptides 2. Saccharides and nucleic acids 3. Alkaloids 4. Steroids 5. Terpenoids 6. Pheromones						
Prerequisites and co-requisites	Podstawy chemii organicznej.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Collecting 60% of the points from two current lecture colloquia.		60.0%		100.0%		

Recommended reading	Basic literature	1. A. Kołodziejczyk, Naturalne Związki Organiczne, PWN, Warszawa 2013. 2. L. Stryer, Biochemia", PWN, Warszawa, 1997.
	Supplementary literature	Wybrane przez studenta podręczniki omawiające podane tematy.
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. Give an example of the synthesis of any nucleotide. 2. Draw the tautomeric forms of a. guanine b. purine. 3. Give two methods for determining the C-terminal amino acid in a peptide.	
Work placement	Not applicable	

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