

Subject card

Subject name and code	Phytocosmetics, PG_00183827						
Field of study	Fitokosmetyki (Wykład)						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study 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		
Semester of study	2		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Structural Research of Biopolymers -> Department of Organic Chemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Emilia Sikorska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	0.0	0.0	0.0	0.0	10
	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	10		5.0		10.0	25
Subject objectives	The aim of the course is to familiarize students with plant raw materials used in cosmetics, including their chemical and biological properties, methods of obtaining active ingredients, and principles of formulating phytocosmetics, as well as to develop students skills in analyzing these materials and assessing their safety.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[CHEMMU2_W02] Has extended and in-depth knowledge in the field of basic chemistry.	The student is familiar with the chemical structures and biological properties of the main groups of plant-derived active components used in cosmetics. The student understands their mechanisms of action and the principles of extraction.	[SW4] test/egzamin - ustny lub pisemny
	[CHEMMU2_K05] Understands the need for independent search of information in scientific literature and popular science magazines.	The student recognizes the limitations of their own knowledge and is able to critically analyze information from publications and online sources. The student understands the need for continuous professional development, including keeping up with innovations in phytocosmetic raw materials and technologies.	[SK4] test/egzamin - ustny lub pisemny
	[CHEMMU2_W05] Has extended knowledge in the field of the specialisation studied.	The student is familiar with the chemical structures and biological properties of the main groups of plant-derived active components used in cosmetics. The student understands their mechanisms of action and the principles of extraction. The student is able to develop simple cosmetic formulations using plant-derived active substances.	[SW4] test/egzamin - ustny lub pisemny
	[CHEMMU2_K01] Knows the limitations of her/his own knowledge; understands the need for further education and can inspire other people to do so.	The student recognizes the limitations of their own knowledge and is able to critically analyze information from publications and online sources. The student understands the need for continuous professional development, including keeping up with innovations in phytocosmetic raw materials and technologies.	[SK4] test/egzamin - ustny lub pisemny
	[CHEMMU2_U04] Applies acquired knowledge of chemistry and related scientific disciplines.	The student can apply chemical and biochemical knowledge to analyze the composition of phytocosmetics and to select appropriate plant raw materials and extraction methods based on the intended use of the product. The student can interpret data from scientific literature and assess the suitability of using plant-derived raw materials in cosmetic formulations.	[SU4] test/egzamin - ustny lub pisemny
Subject contents	Introduction to phytocosmetics (definition and classification of phytocosmetics); market trends and consumer expectations; a brief history of plant-based cosmetics); plant raw materials in cosmetics (key cosmetic plants and active substances); methods of obtaining and processing raw materials; phytocosmetic formulation and technology; composition analysis; mechanisms of action of phytocosmetics; safety and legal regulations.		
Prerequisites and co-requisites	Basic knowledge of organic chemistry and biochemistry		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written exam	51.0%	100.0%
Recommended reading	Basic literature	Materials Provided by the Instructor: - Lecture notes and presentation slides - Recommended scientific literature and reference articles	
	Supplementary literature		
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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