

Subject card

Subject name and code	Technology of cosmetic products, PG_00080790						
Field of study	Chemical Business						
Date of commencement of studies	October 2026		Academic year of realisation of subject			2028/2029	
Education level	Bachelor's 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	5		ECTS credits			1.0	
Learning profile	academic		Assessment form			credit	
Conducting unit	Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Beata Grobelna				
	Teachers						
Lesson types	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		2.0		8.0	25
Subject objectives	Developing the ability to independently produce cosmetic products and solve problems during cosmetics production. Familiarizing students with cosmetic terminology and nomenclature.Familiarizing students with the properties of raw materials for the production of cosmetics.Developing the ability to use chemical knowledge to assess the possibility of producing selected cosmetics on an industrial scale and selecting optimal raw materials to obtain a specific product						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[BCHINŻ_W05] Describes the life cycle of devices, facilities and technical systems as well as modern environment-friendly technical solutions.		recognizes and compares the most important properties of ingredients in cosmetic products			[SW4] test/exam - oral or written	
Subject contents	A. Lecture topics: Emulsion structure, properties, stages of emulsion formation, stability and instability of the emulsion system. Natural and synthetic emulsifiers, selection and operation of the emulsifier. Cosmetic emulsions: chemical characterization of raw materials, INCI nomenclature, formulation. Active ingredients in cosmetics, UV filters (physical and chemical), antimicrobial compounds and antioxidants. Chemistry of color cosmetics: characteristics of basic raw materials and production stages						
Prerequisites and co-requisites	A. Formal requirements Completed general chemistry course B. Prerequisites Identifies and recognizes basic inorganic and organic compounds, performs calculations using formulas from stoichiometry and solution concentrations, independently performs chemical experiments.						
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	test - open questions		51.0%			100.0%	

Recommended reading	Basic literature	1. Outline of Cosmetic Chemistry Wiesław Malinka 2. "Outline of Chemistry and Technology of Cosmetics" Janina Marcinkiewicz-Salmonowiczowa 3. "Beautiful Chemistry" Marcin Molski 4. "Cosmetic technology" Władysław Brud, Ryszard Glinka, 5. "Chemistry of cosmetics" by Alicja Marzec 6. Cosmetic recipe Ryszard Glinka
	Supplementary literature	A.2. studied independently by the student 1. "Cosmetology and pharmacology of the skin" M.C.Martini, 2. "Modern cosmetology" Marcin Molski B. Supplementary literature: professional literature published in scientific journals.
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. Design your own cream ingredients. 2. Why do we smell and name 3 compounds with odorous properties. 3. What vitamins are found in cosmetics and what are they used for?	
Work placement	Not applicable	

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