University of Gdańsk

Subject card

Subject name and code	Technology of cosmetic products, PG_00080790		
Field of study	Chemical Business		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
Education level	Bachelor's studies	Subject group	Obligatory subject group 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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