



Subject card

Subject name and code	DESIGN OF COSMETIC PRODUCT, PG_00064322						
Field of study	PROJEKTOWANIE PRODUKTU KOSMETYCZNEGO						
Date of commencement of studies	February 2026		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		Subject group		Optional subject group Specialty 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	1		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Biotechnology and Microbiology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Patrycja Szumała				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	15.0	0.0	60
	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	60		8.0		32.0	100
Subject objectives	The aim of the course is for students to independently design a cosmetic, including a description on the label and packaging, analyze it in terms of basic physicochemical parameters and stability, and prepare the documentation (report) required before introducing the cosmetic product to the market.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K03] can interact and work in a group, taking on a variety of roles		Is able to work in a group to create and present their own cosmetic product.		[SK1] Ocena umiejętności pracy w grupie		
	[K7_U09] prepares documentation of experiments and technological processes using professional terminology		Is able to prepare the documentation necessary to create a cosmetic safety report		[SU2] Ocena umiejętności analizy informacji [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania		
	[K7_W02] selects appropriate apparatus and materials for the manufacture and processing of consumer goods		Is able to create a cosmetic formula, produce a product based on this formula and correct/improve the composition based on the results of the analysis of basic parameters		[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym		
Subject contents	Course content – lecture - Principles of practical selection of base and additional ingredients for selected cosmetic forms. - Natural cosmetic ingredients requirements and limitations. - Nanometric cosmetic forms. - Most commonly used production lines and processes. - Procedure for introducing a cosmetic to the market. - Documentation of a cosmetic product. Required tests and physicochemical studies of the product. - Assessment of the safety of a cosmetic product						
Prerequisites and co-requisites	Basic knowledge of cosmetic ingredients.						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	grade from presentation	100.0%	40.0%
	report evaluation	100.0%	60.0%
Recommended reading	Basic literature	Martini C., Kosmetologia i farmakologia skóry, Wydawnictwo Lekarskie PZWL, Warszawa, 2007 Barel A., Paye M., Maibach H., Handbook of Cosmetic Science and Technology, wyd. III, Londyn, Informa Health Care, 2009 and other cosmetic monographs	
	Supplementary literature	Meryem Uckaya, Fatih Uckaya, Nazan Demir, Yasar Demir; Evaluation of the efficiency and safety in cosmetic products, International Journal of Pharmaceutics 499 (2016) 295300. Huang, Catherine K, and Timothy A Miller. The truth about over-the-counter topical anti-aging products: a comprehensive review. Aesthetic surgery journal vol. 27,4 (2007): 402-12 And other scientific publications about cosmetic ingredients	
	eResources addresses		
	Example issues/ example questions/ tasks being completed	Development of a recipe for the selected product	
Practical activities within the subject	Not applicable		

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