

Subject card

Subject name and code	SCIENTIFIC VALIDATION OF COSMETICS, PG_00064320								
Field of study	Chemical Technology								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2024/	2024/2025		
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	at the university		
Year of study	1		Language of instruction			Polish Polish			
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assess	assessment		
Conducting unit	Department of Biotechnology and Microbiology -> Faculty of Chemistry								
Name and surname	Subject supervisor		dr hab. inż. Patrycja Szumała						
of lecturer (lecturers)	Teachers dr hab. inż. Patrycja Szumała								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	0.0	15.0		30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study SUM				
	Number of study hours	30		5.0		15.0		50	
Subject objectives	The aim of the course is to introduce students to scientific research that verifies the effect or lack of effect of selected cosmetic ingredients and products, their production and the legal requirements that are imposed on such ingredients and products.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_K01] critically evaluates the content of cognitive and practical problems		Knows the social and economic perception of the effects of cosmetics and is able to verify this knowledge			[SK5] Assessment of ability to solve problems that arise in practice			
	[K7_U06] applies computer, statistical and specialised database methods to solve scientific and technological problems in technology and related fields		Is able to find information from scientific databases confirming the effectiveness or lack of effectiveness of cosmetic ingredients			[SU2] Assessment of ability to analyse information			
	[K7_W04] recognises scientific, technological, organisational and economic opportunities and constraints in technology and related fields		Can explain the actual way cosmetics work and the methods used to evaluate their effects			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Issues related to the structure of the skin, which affects the penetration of cosmetic ingredients into the skin; controversial ingredients (e.g. preservatives, dyes, UV filters, surfactants). Raising awareness and scientific verification of the actual significance of ingredients with the prefix "bio" or "organic", etc., in cosmetics, their actual origin and effect on the human body. Legal regulations inhibiting/limiting the possibilities of using selected ingredients.								
Prerequisites and co-requisites	Basic knowledge of chemistry and biology.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	presentation					40.0%			
	written test		60.0%			60.0%			

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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	Adresy na platformie eNauczanie: WERYFIKACJA NAUKOWA DZIAŁANIA KOSMETYKÓW - Moodle ID: 44588 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44588		
Example issues/ example questions/ tasks being completed	Present scientific data on the degree of collagen penetration into the skin.			
Work placement	Not applicable			

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