



Subject card

Subject name and code	QUALITY CONTROL OF COSMETIC PRODUCT, PG_00064318						
Field of study	Chemical Technology						
Date of commencement of studies	February 2027		Academic year of realisation of subject		2026/2027		
Education level	second-cycle studies		Subject group		Optional subject group Specialty subject group		
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		2.0		
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	0.0	0.0	30.0	0.0	0.0	30
	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	30		5.0		15.0	50
Subject objectives	Learning and conducting quality control of raw materials and semi-products used in the cosmetics industry and finished cosmetics, using devices and measuring equipment used in the industry. The results obtained will be included in appropriate reports from the conducted tests. The subject also includes trips to quality control laboratories of cosmetic companies.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U05] uses instrumental methods applied in technology and related fields		Is able to properly adapt research methods and techniques to analyze the quality of various forms of cosmetic products		[SU4] Assessment of ability to use methods and tools		
	[K7_K01] critically evaluates the content of cognitive and practical problems		knows where and how to look for the necessary information about new raw materials and products and methods of their quality analysis.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_U09] prepares documentation of experiments and technological processes using professional terminology		is able to interpret the obtained test results and prepare a report on the conducted quality control of cosmetics.		[SU5] Assessment of ability to present the results of task [SU2] Assessment of ability to analyse information		

Subject contents	Course content – laboratory 1. Selection of methods and devices for quality control of selected raw materials and semi-products used to obtain cosmetics and finished cosmetic products 2. Production of selected cosmetics for analysis 3. Carrying out quality control of manufactured cosmetics 4. Analysis of the effects of selected raw materials (e.g. extracts, preservatives) 5. Carrying out quality control of commercial products, based on safety data sheets and industry standards 6. Sensory analysis of cosmetics 7. Comparison of the obtained results and preparation of quality control reports of tested products 8. Trip to the quality control laboratory of cosmetic manufacturers.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Grade for tests	100.0%	50.0%
	Grade for reports	100.0%	50.0%
Recommended reading	Basic literature	1. Marzec A., Chemia kosmetyków, Wydanie II Toruń 2005 2. Heather A. E. Benson; Michael S. Roberts; Vania Rodrigues Leite-Silva, Cosmetic Formulation: Principles and Practice, CRC Press 2021 3. Jabłońska- Trypuć A., Czerpak R., Surowce kosmetyczne i ich składniki, MedPharm Wrocław 2008 4. Sharma P.P., COSMETICS : Formulation, manufacturing and Quality Control, Fifth Ed., Vandana Pub 2014	
	Supplementary literature	Industry standards for cosmetic products	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Quality control of shampoos		
Practical activities within the subject	Not applicable		

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