

Subject card

Subject name and code	Quality control of cosmetic materials and products, PG_00007251						
Field of study	Chemistry, Environmental Protection						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Optional subject group		
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				
Conducting unit							
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	familiarizing students with national and international standards for planning technological processes in the cosmetics industry, determining the risk resulting from the production process, familiarize students with the use of basic analytical methods in the field of determination techniques and assessment of the quality of raw materials products, familiarizing students with safe handling of raw materials during production and waste disposal, use of Quality Management Principles in the cosmetics, food and chemical industries						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[CHEML3_U03] Selects the appropriate equipment and laboratory apparatus for conducting uncomplicated chemical experiments.	performs markings in accordance with relevant standards and official journals	[SU6] demonstration of practical skills
	[CHEML3_K02] Works individually demonstrating initiative and independence of activity and cooperates in a team fulfilling various roles in it.	can work independently and in a team	[SK8] observation of student's independent or team work
	[CHEML3_W04] Characterises the basic methods of chemical compound analysis.	selects analytical methods for controlling cosmetic raw materials,	[SW1] oral statement/conversation/discussion
	[CHEML3_W02] Describes the properties of elements and the most important chemical compounds, enumerates the methods of their preparation and methods of analysis.	selects appropriate analytical methods at individual stages of the production process	[SW5] implementation of a problem task
	[CHEML3_K03] Establishes priorities in the right way for the implementation of tasks specified by herself/himself and/or by others.	understands the guarantee of a comparable standard of products	[SK8] observation of student's independent or team work
	[CHEML3_W10] Enumerates and describes the basic aspects of the construction, operation and use of measuring apparatus and equipment used in experimental works in the field of chemistry and related sciences.	explains the concept of validation of research methods	[SW1] oral statement/conversation/discussion
	[CHEML3_U07] Prepares documented elaboration on a specific problem in the field of selected chemical and physical issues.	stosuje podstawowe wzory ze stechiometrii i stezeń roztworów do obliczeń właściwych ilości odczynników	[SU1] oral statement/conversation/discussion
	[CHEML3_U02] Performs analyses using experimental methods and draws conclusions based on them.	performs markings in accordance with relevant standards and official journals	[SU6] demonstration of practical skills
Subject contents	A. Lecture topics: include quality control of both raw materials and cosmetic products, legal and economic aspects of quality, quality assurance systems according to ISO-9000 and ISO-14000, testing and control of cosmetic raw materials, control of the production process, final tests of cosmetic products, requirements regarding cosmetic products and the risks associated with their use and the Good Manufacturing Practice System in the cosmetics industry, issues related to the systems: HACCP, TQM will also be introduced.		
Prerequisites and co-requisites	A. Formal requirements: completed general and inorganic chemistry course, B. Prerequisites independently performs basic chemical experiments, uses basic formulas of stoichiometry and solution concentrations for chemical calculations, distinguishes organic and inorganic compounds		
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	A. Literature required to finally pass the course (pass the exam): A.1. used during classes 1. M. Urbaniak Quality management Theory and practice 2. R. Karaszewski, TQM theory and practice 3. Guide for Inspections on REACH and GHS 4. R. Michalski, J. Mytych Guide to the accreditation of research laboratories	

	Supplementary literature	A.2. studied independently by the student 1. Cosmetics Act 2. ISO introduction guide B. Additional literature 1. Official Journals
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1. What are clinical trials of the product? 2. What is the 5P rule in GMP? 3. What do they mean: a) hourglass, b) rabbit symbol, c) a book with a handle, d) INCI	
Work placement	Not applicable	

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