University of Gdańsk

Subject card

Subject name and code	Quality control of cosmetic materials and products, PG_00007252						
Field of study	Chemistry, Environmental Protection						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2028/2029			
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	2.0			
Learning profile	academic		Assessment form	credit			
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	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	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 and 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_W04] Characterises the basic methods of chemical compound analysis.	explains the concept of validation of research methods	[SW4] test/exam - oral or written
[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_U03] Selects the appropriate equipment and laboratory apparatus for conducting uncomplicated chemical experiments.	independently performs qualitative analyzes of selected raw materials and cosmetic products	[SU6] demonstration of practical skills
[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
[CHEML3_U07] Prepares documented elaboration on a specific problem in the field of selected chemical and physical issues.	recognizes appropriate Quality Management systems in the enterprise	[SU1] oral statement/conversation/ discussion
[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.	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.	cosmetic products maybe bring not only environmental benefits (energy, water and sewage management) but also financial savings	[SK8] observation of student's independent or team work
[CHEML3_W02] Describes the properties of elements and the most important chemical compounds, enumerates the methods of their preparation and methods of analysis.	recognizes and compares the most important properties of ingredients under REACH	[SW4] test/exam - oral or written

Subject contents

B. Laboratory exercises: includes basic analyzes of cosmetic raw materials such as: liquid fats, waxes, surfactants. In addition, students will analyze the quality of cosmetic products obtained during the Basic Cosmetic Chemistry classes.

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
reports	51.0%	40.0%
project	51.0%	60.0%

Recommended reading

Basic literature

A. Literature required to finally pass the course (pass the exam):A.1. used during classes1. M. Urbaniak Quality management Theory and practice2. R. Karaszewski, TQM theory and practice3. Guide for Inspections on REACH and GHS4. 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	
Example issues/ example questions/ tasks being completed	preparation of a project for an innovative cosmetic product (team work)	
Work placement	Not applicable	

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