

Subject card

Date of commencement of study Date of commencement of studies	Subject name and code	, PG_00053535								
Date of commencement of studies	•	_								
Education level First-cycle studies Subject group Subject study A	Date of commencement of			Academic year of						
Semester of study 7	Education level	first-cycle studies		-			Subject group related to scientific			
Semester of study 7	Mode of study	Full-time studies		Mode of delivery			at the university			
Learning profile General academic profile Assessment form assessment	Year of study	4		·			Polish -			
Conducting unit Name and surname of lecturer (lecturers) Lesson types and methods of instruction Elearning activity and number of study hours Carining activity Subject objectives Caining knowledge of the technology of preparation, composition, analysis and the use of various groups of cosmetic products in the field of study. Place and understands, to an advanced extent, selected aspects of chemistry and biochemistry, and biochemistry, and selected in the field of study, measure their parameters and examine technical specifications Subject contents Subject contents Subject contents Frequisites Basic knowledge of organic chemistry and selected analytical methods. Subject contents Subject contents Assessment methods Subject consensity preparations. Frequential preparations. Into an advanced extent, selected aspects of chemistry and biochemistry, and biochemistry, and biochemistry	Semester of study	7		ECTS credits			1.0			
Subject supervisor Care	Learning profile	general academic profile		Assessment form			assessment			
Lesson types and methods of instruction Lesson type Lecture Tutorial Laboratory Project Seminar SUM Number of study 15.0 0.0 0.0 0.0 0.0 0.0 15	Conducting unit	Faculty of Chemistry								
Lesson types and methods of instruction	Name and surname	Subject supervisor		dr hab. inż. Adam Macierzanka						
Number of study hours Dearming activity Clearming activity Participation in didactic classes included in study Participation in didactic classes included in study Dearming activity Participation in didactic classes included in study Dearming activity Participation in didactic classes included in study Dearming activity Participation in didactic classes included in study Dearming activity Participation in didactic classes included in study Dearming activity Participation in didactic classes included in study Dearming activity Participation in didactic classes included in study Dearming activity Dearming activity Participation in didactic classes included in study Dearming activity Dearming acti	of lecturer (lecturers)	Teachers								
E-learning activity and number of study hours Learning activity Participation in didactic classes included in study plan		Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
Learning activity and number of study hours Learning activity Participation in didactic classes included in study plan	of instruction	hours		0.0	0.0	0.0		0.0	15	
Calasses included in study plan		E-learning hours included: 0.0								
Subject objectives		classes include				Self-study SUM				
Cosmetic products in the context of biomedical applications of cosmetic preparations. Course outcome		1		1.0		9.0 25		25		
K6_W52 Knows and understands, to an advanced extent, selected aspects of chemistry and biochemistry and b	Subject objectives									
understands, to an advanced extent, selected aspects of chemistry and biochemistry and in relation to the technical products. Understanding the mechanisms of action of advanced carrier structures of biologically active substances in terms of the biomedical use of cosmetic pro	Learning outcomes	Course outcome Subject outcome Method of verification					fication			
operation of components, circuits and systems related to the field of study, measure their parameters and examine technical specifications Subject contents Structure and function of human skin. Compounds reported to increase the skin barrier. Types of cosmetic products and their effects. Materials used in cosmetics and criteria of their selection, with particular emphasis on biologically active materials. Cosmetic products. Understanding the mechanisms of action of advanced carrier structures of biologically active substances in terms of the biomedical use of cosmetic preparations. Prerequisites and operation of components, circuits and systems related to the field of study, measure their parameters and systems related to the field of study, measure their parameters and systems related to the field of study, measure their parameters and systems related to the field of study, measure their products and their effects. Materials used in cosmetics and criteria of their selection, with particular emphasis on biologically active materials. Cosmetic emulsions and their structure and stabilization methods. Regulations concerning cosmetic materials and cosmetic products. Understanding the mechanisms of action of advanced carrier structures of biologically active substances in terms of the biomedical use of cosmetic preparations. Basic knowledge of organic chemistry and selected analytical methods. Subject passing criteria Passing threshold Percentage of the final grade		understands, to an advanced extent, selected aspects of chemistry and biochemistry, constituting general knowledge		extended knowledge in the field of chemistry and biochemistry and in relation to the biomedical aspects of cosmetology and cosmetic						
products and their effects. Materials used in cosmetics and criteria of their selection, with particular emphasis on biologically active materials. Cosmetic emulsions and their structure and stabilization methods. The surfactants in cosmetics. The technology for producing various types of cosmetic emulsions. Regulations concerning cosmetic materials and cosmetic products. Understanding the mechanisms of action of advanced carrier structures of biologically active substances in terms of the biomedical use of cosmetic preparations. Prerequisites Basic knowledge of organic chemistry and selected analytical methods. Subject passing criteria Passing threshold Percentage of the final grade	operation of components and systems related to t study, measure their par and examine technical		ents, circuits to the field of parameters	analyze the interaction of the components of cosmetic products from the point of view of the impact of their interactions on the performance characteristics of end products, including in relation to the technical aspects of the use of such products in biomedical			use methods and tools [SU2] Assessment of ability to analyse information [SU1] Assessment of task			
and co-requisites Assessment methods Subject passing criteria Passing threshold Percentage of the final grade	Subject contents	products and their effects. Materials used in cosmetics and criteria of their selection, with particular emphasis on biologically active materials. Cosmetic emulsions and their structure and stabilization methods. The surfactants in cosmetics. The technology for producing various types of cosmetic emulsions. Regulations concerning cosmetic materials and cosmetic products. Understanding the mechanisms of action of advanced carrier structures of biologically active substances in terms of the biomedical use of cosmetic preparations.								
and criteria		Basic knowledge of organic chemistry and selected analytical methods.								
and oritoria	Assessment methods	Subject passin	Subject passing criteria		Passing threshold			Percentage of the final grade		
100.070	and criteria	Written exam	-	50.0%		_				

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Recommended reading	Basic literature	1. J. Marcinkiewicz - Salmonowiczowa, Zarys chemii i technologii kosmetyków, Wyd. Politechniki Gdańskiej, Gdańsk, 1995. 2. W.S. Brud R. Glinka, Technologia Kosmetyków, Oficyna Wydawnicza, Łódź, 2001 3. M.M. Rieger, Surfactants in Cosmetics, M. Dekker, Inc. New York, 1985. 4. L. Ho Tan Tai, Formulating Detergents and Personal Care Products, AOCS Press, Champaing, 2000. 5. Analysis of Cosmetic Products, ed. A. Salvador, A.Chisvert, Elsevier, Amsterdam, 2007.				
	Supplementary literature	6. J. Przondo, Związki powierzchniowo czynne i ich zastosowanie w produktach chemii gospodarczej , Wydawnictwo Politechniki Radomskiej, 2007. 7. K. Gawrońska, K. Kacprzak, Chemia kosmetyczna: ćwiczenia laboratoryjne; UAM, Warszawa 2008. 8. R. Glinka, M. Glinka; Receptura kosmetyczna z elementami kosmetologii: tom 1; Oficyna Wydawnicza MA, Łódź, 2008				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Those will be directly related to the topics described above in the "Class structure" section.					
Work placement	Not applicable					

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