

## COURSE DESCRIPTION (syllabus)

1. Course name: <b>FUNDAMENTALS OF COSMETICS SICENCE</b>		2. ECTS
		<b>4</b>
		3. ECTS code
		<b>S/N1ChemKOS-F-PWKOS-I</b>
4. Field of study: <b>Cosmetic chemistry</b>		5. Major: -
6. Semester: <b>I</b>		7. Cycle: <b>first cycle study</b>
8. Study form: <b>full-time/ part-time</b>		9. Language: <b>English/ Polish as supporting language</b>
10. Course status: <b>optional</b>		11. Assessment: <b>pass</b>
12. Group: <b>optional elective</b>		
13. Form of classes:	14. Didactic methods	15. Methods of running classes
<b>lecture</b>	<b>lecture with multimedia presentation/ tutorial</b>	<b>in classrooms</b>
<b>recitation classes</b>	<b>recitation classes: analysis of source materials/ explaining/ case study</b>	<b>in classrooms</b>
16. Course targets and tasks: 1. <b>Getting the students acquainted with the theoretical foundations of knowledge about cosmetics, including an overview of:</b> a) <b>history of cosmetics,</b> b) <b>fundamental terms,</b> c) <b>basic terminology,</b> d) <b>types of cosmetic products,</b> e) <b>groups of raw materials used for production.</b>		
17. Formal requirements: 1. <b>Presence at recitation classes, absence can be justified on the basis of a sick leave.</b>		
18. Prerequisites: 1. <b>Fundamental knowledge on chemistry and biology at the secondary school level</b>		
19. Curriculum:		
No.	<b>W – Lecture / K – recitation classes:</b>	
<b>W1</b>	Introduction to the module: history of cosmetics and cosmetic products	
<b>W2</b>	Legal basis regulating manufacture of cosmetic products in Poland and the European Union	
<b>W3</b>	Market of cosmetic products. Sources of knowledge about cosmetic products	
<b>W4</b>	Ingredients of cosmetic products. Groups of cosmetic raw materials.	
<b>W5</b>	Basic forms of cosmetic products. Introduction to the technology of cosmetics.	
No.	<b>C – practical classes:</b>	
<b>C1</b>	Terminology: INCI, IUPAC, CAS, CMR.	
<b>C2</b>	The impact of cosmetics on the human body, including skin and its appendages. Mechanism and efficiency of action of cosmetic products.	
<b>C3</b>	Breakdown and characteristics of cosmetics depending on utility functions.	
<b>C4</b>	Breakdown and characteristics of cosmetics depending on form.	

C5	Product notification – CPNP database.				
20. Assumed learning outcomes:					
<b>Knowledge:</b> <i>set of descriptions, facts, principles, theories and practices, acquired in the learning process that refer to the field of study or professional activity</i>					
No.	<b>Learning outcome – KNOWLEDGE</b>				
	The student who passed the course:				
01	has elementary knowledge in the field of cosmetic chemistry, allowing him/her to acquire further engineering competences.				
02	knows the basic ingredients of cosmetics, groups of cosmetic raw materials and forms of cosmetic products.				
<b>Skills:</b> <i>the ability to perform tasks and solve problems specific to the field of study or professional activity</i>					
No.	<b>Learning outcome – SKILLS</b>				
	The student who passed the course:				
03	uses nomenclature appropriate for cosmetic chemistry.				
04	knows how to use IT databases applicable in the production and distribution of cosmetic products.				
<b>Social competences:</b> <i>the ability to shape one’s own development and autonomous and responsible participation in professional and social life, taking into account the ethical context of one’s own conduct</i>					
No.	<b>Learning outcome – COMPETENCES</b>				
	The student who passed the course:				
05	understands the need to constantly expand his/her knowledge.				
06	understands the interdisciplinary nature of cosmetic chemistry and the non-technical effects of engineering activities.				
20a. Referencing the course learning outcomes to the directional learning outcomes:					
Number of the course outcome		Symbol of directional learning outcomes:			
01		ChK1P_W04			
02		ChK1P_W17			
03		ChK1P_U01			
04		ChK1P_U25			
05		ChK1P_K01			
06		ChK1P_K04			
21. Assessment methods:					
F – formative: -		P – summary: P4 – pass with a grade			
22. Manner of verification of learning outcomes:					
Outcome number	Curriculum		Assessment methods		
01	W1-W5, C1-C5		P4		
02	W3-W5, C3-C4		P4		
03	W1-W5, C1-C5		P4		
04	C1-C5		P4		
05	W1-W5, C1-C5		P4		
06	W1-W5, C1-C5		P4		
23. Prerequisite to pass the course: Obtaining a positive grade from the class according to the scale:					
Satisfactory	Satisfactory plus	Good	Good plus	Very good	
50-59%	60-69%	70-79%	80-89%	90-100%	
24. Overall work input of a student needed to achieve the learning outcomes in hours and ECTS credits:					
Total full-time		Total part-time		full-time	part-time
100 h		100 h		ECTS 4	
– including number of ECTS credits for contact hours with direct participation of an academic teacher				ECTS 1.92	ECTS 1.44
– including number of ECTS credits for self-study hours				ECTS 2.08	ECTS 2.56

**25. Primary references** *(for use during classes and self-study by the student):*

1. Malinka W., Zarys chemii kosmetycznej, Wrocław 1999.
2. Szczygiel-Rogowska J., Tomalska J., Historia kosmetyki w zarysie, Białystok 2005.
3. Jabłońska Trypuć A., Czerpak R. Surowce kosmetyczne i ich składniki, Wrocław 2008.
4. Sionkowska, A; Chemia kosmetyczna. Wybrane zagadnienia. Toruń 2019.

**26. Secondary references:**

1. Glinka R. Góra J., Związki naturalne w kosmetyce, Warszawa 2000.
2. Industry-specific journals.