

COURSE DESCRIPTION (syllabus)

1. Course name: HYGIENE IN PRODUCTION AND MICROBIOLOGICAL SAFETY OF COSMETICS		2. ECTS
		2
		3. ECTS code
		S/N2techKOS-O-HYGPROD-II
4. Field of study: Cosmetic technology		5. Major: -
6. Semester: II		7. Cycle: second cycle study
8. Study form: full-time/ part-time		9. Language: English (Polish as supporting language)
10. Course status: mandatory		11. Assessment: pass
12. Group: mandatory course in the field of basic education		
13. Form of classes:	14. Didactic methods	15. Methods of running classes
lecture	lecture with multimedia presentation/ recitation	classes with the use of distance learning methods and techniques
recitation classes	recitation classes: case study/ discussion/ group work/ work based on projects	in classrooms
16. Course targets and tasks: 1. Getting the student acquainted with the health and safety requirements in cosmetics production, including also microbiological requirements and negative effects of microbial contamination of the batch. 2. Teaching the students how to minimize risk of biological, physical and chemical contamination in the production process.		
17. Formal requirements: 1. Attendance at classes organised as recitation classes.		
18. Prerequisites: 1. Structured knowledge about organisation of the production process and technology of cosmetic preparations.		
19. Curriculum:		
No.	W – Lecture / K – recitation classes:	
W1	Good Manufacturing Practice [GMP] in the production of cosmetic products.	
W2	HACCP system. GMP/GHP as an element of the HACCP system.	
W3	Health and safety of a cosmetic product.	
W4	Environmental monitoring in the cosmetic production process part I: efficiency of washing, disinfection and hygiene processes.	
W5	Basic production supervision documents.	
W6	Environmental monitoring in the cosmetic production process part II: air.	
W7	Requirements for biocides. How to effectively choose a disinfectant?	
No.	C – Practical classes:	
C1	Responsibility of producers and distributors of cosmetic products as regards their safety.	
C2	Microbiological quality of cosmetic product. Microbiological limits for cosmetic products.	
C3	Biological hazards. Sources of microbiological contamination. Potential sources of health risk for	

	the consumer.	
C4	Impact of microorganisms on ready cosmetic products.	
C5	Methodology of examining microbiological purity.	
C6	Physical and chemical risks in the production of cosmetic products.	
C7	Factors affecting the quality of a ready product. Critical Control Point (CCP).	
20. Assumed learning outcomes:		
Knowledge: <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.	Learning outcome – KNOWLEDGE	
	The student who passed the course:	
01	has well-established knowledge of the applicable safety and hygiene rules in the production of cosmetics.	
02	knows the sources of biological, physical and chemical hazards in the cosmetics production process, as well as the factors affecting the quality and safety of the finished cosmetic product.	
Skills: <i>the ability to perform tasks and solve problems specific to the field of study or professional activity</i>		
No.	Learning outcome – SKILLS	
	The student who passed the course:	
03	is able to implement the principles of Good Manufacturing Practice [GMP] in the process of manufacturing cosmetic products.	
04	is able to analyse sources of health risks for the consumer resulting from non-compliance with the safety and hygiene rules in the cosmetics production process.	
05	is able to use the knowledge in practice.	
Social competences: <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.	Learning outcome – COMPETENCES	
	The student who passed the course:	
06	makes decisions taking into account the principles of safety and hygiene in the production of cosmetic products.	
07	is able to independently deepen his/her knowledge of the applicable regulations governing the activities of companies involved in the production, testing and distribution of a cosmetic product.	
20a. Referencing the course learning outcomes to the directional learning outcomes:		
Number of the course outcome	Symbol of directional learning outcomes:	
01	KK2P_W13	
02	KK2P_W11	
03	KK2P_U08, KK2P_U09	
04	KK2P_U11	
05	KK2P_U01	
06	KK2P_K08	
07	KK2P_K01	
21. Assessment methods:		
F – formative: F1-self-study paper/ presentation	P – summary: P3-mean of grades obtained during the semester	
22. Manner of verification of learning outcomes:		
Outcome number	Curriculum	Assessment methods
01	W1-W7, C1-C7	F1, P3
02	C3, C6, C7	F1, P3
03	W1-W2	F1, P3
04	W1-W7, C1-C7	F1, P3
05	W1-W7, C1-C7	F1, P3
06	W1-W7, C1-C7	F1, P3

07	W1-W7, C1-C7	F1, P3	
23. Prerequisite to pass the course: The final grade is the mean of grades obtained during the semester for the independent preparation of projects on the topics assigned by the academic teacher responsible for conducting the module.			
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
50 h	50 h	ECTS 2	
– including number of ECTS credits for contact hours with direct participation of an academic teacher		ECTS 1.44 [including 0.72 ECTS online]	ECTS 1.12 [including 0.56 ECTS online]
– including number of ECTS credits for self-study hours		ECTS 0.56	ECTS 0.88
25. Primary references (for use during classes and self-study by the student):			
1. Applicable acts of law as regards production, study and distribution of cosmetic products.			
2. Applicable ISO standards.			
26. Secondary references:			
1. Sieńczyk W., Toksykologia współczesna, Warszawa 2005.			
2. Mikucka A., Budzyńska A., Gospodarek E., Mikrobiologia w kosmetologii, Warszawa 2013.			
3. Zymonik Z., Hamrol A., Grudowski P., Zarządzanie jakością i bezpieczeństwem, Warszawa 2013.			
4. Nowaczyk P., Korzekwa K., Atlas mikrobiologii kosmetyków: Atlas of cosmetics microbiology, Brzeźnia Łąka 2017.			
5. Jurowski K., Piekoszewski W., Toksykologia i ocena bezpieczeństwa kosmetyków, Warszawa 2019.			
6. Schimmelpfenning M., Niebezpieczne kosmetyki, Białystok 2019.			
7. Industry-specific journals.			