COSMETIC CHEMISTRY

1	Course Title:	COSMETIC CHEMISTRY	
2	Course Code:	KIM4047	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	4	
6	Semester:	7	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None However, it is strongly recommended that students should have read Organic Chemistry I and Organic Chemistry II.	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. NEVİN ARIKAN ÖLMEZ	
15	Course Lecturers:	Prof.Dr.Necdet Coşkun Prof.Dr.Mustafa Tavaslı	
16	Contact information of the Course Coordinator:	narikan@uludag.edu.tr +90 224 29 41 731 Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 16059 Görükle / BURSA,	
17	Website:		
18	Objective of the Course:	The aim of this course is to explain the basic principles of cosmetic science. Introducing the structure and activities of additives used in cosmetic products and giving information about the proper use of these products.	
19	Contribution of the Course to Professional Development:	To learn the chemicals and their properties used in the cosmetic industry.	
20	Learning Outcomes:		
		1	Knowing the synthesis and production of cosmetic formulations.
		2	Learning structure and activity relations of cosmetic products.
		3	Knowing the protection and stabilitiy of cosmetic products
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction, history, general concepts	

2	Classification and usage of cosmetic products	
3	Make-up cosmetics	
4	Skin and hair care cosmetics	
5	The main additives used in cosmetic products. Natural and synthetic additives	
6	Surfactants, colorants	
7	alpha hydroxyl acids & beta hydroxyl acids, anti-oxidants and sunscreens	
8	Problem solving	
9	Protectors and perfumes	
10	skin-whitening agents, hydrating substances / moisturizers	
11	antiperspirants & deodorants and botanical ingredients.	
12	Safety and usage standards	
13	Homework presentations	
14	Homework presentations	

22	Textbooks, References and/or Other Materials:	• Handbook of Cosmetic Science and Technology, J. Knowlton, S. Pearce, First Edition, Costwold Publishing

23	Activites		Number	Duration (hour)	Total Work Load (hour)
	Theoretical		14	3.00	42.00
	Assesment				
	Practicals/Labs		0	0.00	0.00
	Self study and preperation	**R**	6	1.00	6.00
	Homeworks		1	20.00	20.00
	Quiz	0	0.00	0.00	0.00
	Projects		0	0.00	0.00
	Field Studies		0	0.00	0.00
	Final Exam				
	Midterm exams	1	60.00	1	42.00
	Others		0	0.00	0.00
	Contribution of Term (Year) Learning Activities to Success Grade		40.00	1	42.00
	Total Work Load				152.00
	Total work load/ 30 hr		Contribution of Final Exam to Success Grade	60.00	5.07
	ECTS Credit of the Course				5.00
	Measurement and Evaluation Techniques Used in the Course		It is evaluated by midterm exam, and final exam, which consists of classical questions, and homework.		

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	0	0	0	5	3	3	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	5	3	3	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	5	3	3	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications					
Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**