AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Toxicology								
Course Code	KMT209		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	54 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To give theoretical information about toxic factors and environmental factors in cosmetic raw materials, production process, final product and to make students aware of existing, formed or possible toxic substances								
Course Content	Introduction to toxicology Classification of toxicology, identification of toxic materials, ways of detoxification of toxic substances, methods of protection from toxic substances, reading of toxic substance labels, toxic substance analysis, toxic substance quality standards, toxic risks in cosmetic preparations, toxic risks that may occur in the production of cosmetics, manufacturing applications								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Toksikoloji Prof. Dr. Nevin VURAL Ankara Üniversitesi Eczacılık Fakultesi Yayınları no: 73
2	Instructor lecture notes.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to Toxicology
2	Theoretical	Classification of Toxicology
3	Theoretical	Identification of toxic materials
4	Theoretical	Detoxification Ways of Toxic Substances
5	Theoretical	Methods of Protection from Toxic Substances
6	Theoretical	Toxic Substance Quality Standards
7	Theoretical	Toxic Substance Quality Standards
8	Intermediate Exam	midterm
9	Theoretical	Toxic Substance Analysis
10	Theoretical	Toxic Substance Analysis
11	Theoretical	Investigation of Toxicity and Risk Analysis
12	Theoretical	Investigation of Toxicity and Risk Analysis
13	Theoretical	Toxic Risks in Cosmetic Preparations
14	Theoretical	Toxic Risks in the Environment in Cosmetics Production Process
15	Theoretical	Good Manufacturing Practices in Cosmetic Preparation
16	Final Exam	final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Individual Work	6	0	2	12
Midterm Examination	1	6	1	7
Final Examination	1	6	1	7
			Total Workload (Hours)	54
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To recognize toxic substances in cosmetics
2	To learn detoxification methods of toxic substances
3	To learn the standards of toxic substances
4	To have knowledge about toxic substance analysis
5	To be aware of toxic risks that may occur in cosmetic production and cosmetic product and environment

Programme Outcomes *(Cosmetic Technology)*	
1	To know the classification of cosmetic raw materials, for what purpose, in which products and how much they should be used
2	Define and classify cosmetics,
3	To define, classify toxicity, Toxic substances and detoxification ways of these substances to know. To be able to analyze toxic substances.
4	To be aware of the precautions to be taken when working with hazardous chemicals in terms of laboratory safety and human health.
5	To have the ability to use basic mathematical methods to produce solutions.
6	To be able to define the carrier systems used in cosmetics, to be able to choose the carrier system to be used according to the cosmetic product.
7	To know and apply the necessary tests in cosmetic raw materials, intermediate products and finished products.
8	Depending on the Atatürk nationalism in accordance with Atatürk's principles and reforms, adopted the national, moral, spiritual and cultural values of the Turkish Nation, and has adopted that the Turkish language is a rich, rooted and productive language; have love and awareness of language; to have the ability to use the foreign language sufficiently to have the pleasure and habit of reading and need professionally.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	3	3	4	3	3
P2	4	4	5	4	5
P3	5	5	3	5	5
P4	5	4	3	3	3
P5	5	4	2	4	4
P6	5	3	3	4	3
P7	5	3	4	3	3