



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Cosmetic Microbiology							
Course Code		KMT205		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of Cosmetic Microbiology course; to give basic information about microorganisms in cosmetic products, sources of microbial contamination in cosmetics, factors affecting the growth of microorganisms in cosmetics, cosmetic product-related diseases and cosmetic protection methods.							
Course Content		Microorganisms and cosmetic products. Contamination sources in cosmetics. Factors affecting the growth of microorganisms in food (internal factors, external factors). cosmetic protection methods (prevention of contamination, removal of contaminants from cosmetics, prevention of microbial reproduction, killing of microorganisms present in cosmetics). Cosmetic mediated diseases, epidemiology and control of cosmetic mediated pathogens.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Madigan, M.T., Martinko, J. M., Parker, J. 2016. Brock's Biology of Microorganisms. 14th Edition, Prentice-Hall, Inc., USA
2	Geis, Philip A.Ed., Cosmetic Microbiology : A Practical Approach, Taylor Francis, 2006

Week	Weekly Detailed Course Contents	
1	Theoretical	History of cosmetic microbiology
2	Practice	Physiology and biochemistry of microorganisms
3	Theoretical	Fungi, industrial and medical
4	Practice	Pathogen microorganism groups in cosmetic products
5	Theoretical	Pathogen microorganism groups in cosmetic products
6	Practice	Contamination sources in cosmetic products
7	Theoretical	Contamination sources in cosmetic products
8	Intermediate Exam	midterm
9	Theoretical	Microbiological contamination limits and non-sterile products
10	Practice	Protection strategies in cosmetic products
11	Theoretical	Consumer safety issues in the protection of cosmetics
12	Theoretical	Hazard analysis and HACCP in cosmetic microbiology
13	Practice	Microbial environment of production facilities
14	Theoretical	Microbial environment of production facilities
15	Practice	Evaluation of microbiological results
16	Final Exam	final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Individual Work	15	0	1	15
Midterm Examination	1	13	1	14



Final Examination	1	14	1	15
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Recognition of harmful activities caused by microorganisms in cosmetics
2	Microorganism behavior in different processes applied to cosmetics
3	Control of pathogen microorganisms in cosmetics
4	Counting and identification of microorganisms in different cosmetic groups
5	To be able to comment on interactions between microorganisms

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	2	2	2
P2	4	2	2	3	3
P3	3	2	3	3	3
P4	3	2	3	2	2
P5	3	3	3	2	3
P6	3	3	2	4	3
P7	3	3	3	3	4

