



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Organic Chemistry							
Course Code		KMT108		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To create a scientific basis for understanding the function of carbon compounds, which are the basic building blocks of living systems, in the process of life							
Course Content		Development of concepts such as molecular structure, naming, isomer, tautomer and resonance (mesomer) and understanding of the basic chemical ability of functional groups.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, 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	Organic chemistry: Solomon
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Week	Weekly Detailed Course Contents	
2	Theoretical	Nomenclature of IUPAC: Alkanes Alkenes, Alkynes, Alkyl Halides,
3	Theoretical	Nomenclature of IUPAC: Alcohols, Ethers Aromatic compounds, Aldehyde
4	Theoretical	Nomenclature of IUPAC: Ketones, Amines, Carboxylic Acids and Derivatives
5	Theoretical	Alkanes: Derivatives and reactions: Aliphatic radical displacement reaction mechanism
6	Theoretical	Alkyl halides: Basic strength, Production, E1 and E2 reaction mechanisms, Nuclear loving power, Reactions, SN1 and SN2 reaction mechanisms
7	Theoretical	Alkenes: Obtained and Reactions: Catalytic and ionic addition reactions, mechanisms
8	Intermediate Exam	midterm
9	Theoretical	Alcohols: Production, SN1 and SN2 reactions, E1, E2, SN1 and SN2 reactions, mechanisms
10	Theoretical	Ethers: Obtained, Reactions, SN1 and SN2 reactions, mechanisms
11	Theoretical	Aromatic compounds: structure of benzene, aromaticity, benzene reactions
12	Theoretical	Aromatic compounds: side-group reactions and mechanisms of benzene
13	Theoretical	Aldehydes and ketones: Production and addition reactions of aldehydes and ketones Post-addition reactions of carbonyl groups (condensation)
14	Theoretical	Aldehydes and ketones: Production and addition reactions of aldehydes and ketones Post-addition reactions of carbonyl groups (condensation)
15	Theoretical	Aldehydes and ketones: Production and addition reactions of aldehydes and ketones Post-addition reactions of carbonyl groups (condensation)
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	2	6	2	16
Final Examination	2	8	2	20
Total Workload (Hours)				76
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				



Learning Outcomes

1	To be able to name an organic compound (according to IUPAC nomenclature system)
2	To be able to determine the basicity, acidity, nucleophilic and electrophilic properties of a compound and to decide which one is dominant
3	To know the basic chemical behavior of functional groups.
4	To be able to consider the concept of isomerism
5	To understand the reaction mechanisms

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	2	4	3	2	3
P2	3	3	4	2	4
P3	4	2	2	1	2
P4	5	4	4	3	2
P5	4	3	3	4	2
P6	5	4	5	3	2
P7	4	3	5	5	3

