



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Organic Chemistry							
Course Code		KZM110		Couse 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	
1	Theoretical	Nomenclature of IUPAC: Alkanes Alkenes, Alkynes, Alkyl Halides,
2	Theoretical	Nomenclature of IUPAC: Ketones, Amines, Carboxylic Acids and Derivatives
3	Theoretical	Isomers: classification and nomenclature
4	Theoretical	Alkanes: Derivatives and reactions: Aliphatic radical displacement reaction mechanism
5	Theoretical	Alkyl halides: Basic strength, Production, E1 and E2 reaction mechanisms, Nuclear loving power, Reactions, SN1 and SN2 reaction mechanisms
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	Aldehit ve ketonlar: Aldehitler ve ketonların elde edilişleri ve katılma tepkimeleri karbonil gruplarının katılma sonrası tepkimeleri (kondensasyon),
14	Theoretical	Carboxylic acids and Esters: Production, addition and separation reactions
15	Theoretical	Carboxylic acids and Esters: Production, addition and separation reactions
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	1	1	1	2
Midterm Examination	1	8	1	9
Final Examination	1	8	1	9
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 define and classify cosmetics.
2	To learn the classification of cosmetic raw materials, purposes, products to use and what properties should be carried.
3	To describe and classify toxicity, to learn toxic substances and analyze methods.
4	To learn laboratory safety, to apply safety precautions when working with dangerous chemicals.
5	To learn and apply necessary tests for cosmetic raw materials, intermediates and finished products.
6	To perform a scientific study, analyze study and report results of study scientifically.
7	To interpret experimental results, to evaluate data in point of cosmetic science.
8	To act in accordance with the principles of ethics, to have awareness of professional and ethical responsibility.
9	To be individuals who are committed to Atatürk's Principles and Revolutions, contemporary, democratic, secular, protecting and developing their country, protecting their nation, respecting human rights, protecting nature, non-discriminatory, adhering to their traditions and customs, and protecting their values.
10	To be an individual who has completed his personal development, can adapt to society and contribute positively

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

	L1	L2	L3	L4	L5
P5	4	3	4	3	4

