Identification	Subject	CHEM	226, Orgai	nic Chemistry,	, 4 ECTS
	Department			nemical Engine	
	Program	Underg	•		
	Term	Fall 20			
	Instructor		lmaz Aliy	eva	
	E-mail:	1		khazar.org	
	Phone	SOIIIIaz	anyevawi	xiiazai.oig	
	Classroom/hours	TBC			
		IBC			
Prerequisites	Office hours				
	Organic Chemistry				
Language	English				
Compulsory/Electiv	Compulsory				
Di. d. 4 and b. a law	[1] I C W 1 ID		C1 · .	0.1 1' 2	2012
Required textbooks	[1] L. G. Wade, JR.	_	•		
and course	[2] John McMurry. (	_	•	*	
materials	[3] David R. Klein.		Chemistry.	, 4th Edition, 2	2021
Website of course	Traditional face-to-fa	ce		Π	<b>T</b> 7
Teaching methods	Lecture Croup discussion				X
	Group discussion Practical tasks				X
Evaluation	Methods		Data/d	<u> </u>	
Evaluation					Percentage (%)
	Participation			y week	5 5
	Activity			y week	
	Quiz			5 and 12	10
	Midterm Exam			BC	30
	Presentation/Grou	up	Dece	ember	10
	work				
î .				D.C.	
	Final Exam		T	BC	40
	Total				100
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elimination, and addition: - Understand various functional groups in terms of nomenclature, physical properties, reactions, and synthesis. **Policy**  Participation Students are expected to attend all classes, arrive on time, come prepared, and actively engage in discussions and group work. Participation is essential for learning and is a key part of the course. By contributing to class discussions and activities, students will deepen their understanding of the material and build critical thinking, communication, and teamwork skills that are valuable for academic and professional success. Students can receive a maximum of 5 (five) points for participation. Presentation/Group work Students will engage in presentations and group projects to deepen their understanding of course concepts while developing teamwork and communication skills. These activities offer opportunities to demonstrate knowledge and collaborate effectively, fostering a dynamic and interactive learning environment. The presentation/group work is evaluated out of 10 (ten) points. Activity Students should actively participate in classes, seminars, conferences, and relevant scientific events. Activity is evaluated with up to 5 (five) points. Quiz There will be two quizzes throughout the semester to assess your understanding of the material covered. Each quiz will contain 5 (five) questions, with each question worth 1 (one) point. Withdrawal (pass/fail) This course adheres to the grading criteria established by the School of Engineering and Applied Science. Typically, a minimum grade of 60% is required to pass. Students who do not meet this requirement will need to retake the course in the following term or year. Cheating/plagiarism Cheating during exams, unauthorized use of materials in presentations,

Cheating during exams, unauthorized use of materials in presentations, and plagiarism-presenting someone else's work as one's own without proper attribution-are strictly prohibited. Violations may result in a score of 0 (zero) without further consideration.

## Illness

If a student is unable to participate in a quiz or presentation due to illness, he or she must notify the instructor in advance and submit a doctor's note. After reviewing the situation, the instructor can set a new time for the quiz or presentation. A student is given only one chance. Students who do not notify the instructor in advance and do not provide a doctor's note will not be given a chance to retake the quiz or give a presentation.

## Professional behavior guidelines

Students are required to uphold a respectful academic and professional environment during class hours. Unauthorized conversations and unethical behavior are strictly prohibited.

## • Classroom etiquette

Students are expected to arrive on time and be prepared for each session. Furthermore, to ensure a focused learning environment, mobile phones must be stowed and turned off during class time.

	Tentative Schedule	
Weeks	Topics	Reference books
1	Introduction to the study of organic chemistry	[1] p.1-36
	Structure and properties of organic molecules	[1] p.42-83
	Stereoisomers	[2] p.115-148
2	Alkanes: Structure; Natural sources; Physical Properties;	[1] p.87-106
	Nomenclature; Constitutional Isomers; Uses; Reactions	[2] p.60-88

3 Cycloalkanes: Physical Properties; Nomenclature; Cis-trans Isomerism in Cycloalkanes; Stabilities of Cycloalkanes; [2] p.38-114 Substituted cycloalkanes; Polycyclic Systems [3] p.164-179  Problem-Solving Lesson (tasks, mini-quizzes, brief lab explainer)  4 Alkenes: Structure and Bonding; Unsaturation; Nomenclature; Alkene Stability; Physical properties; Uses; Reactions; Synthesis [2] p.185-262 Synthesis  5 Quiz 1 (Covers weeks 1-4) Alkadienes: Classification; Configurational Isomers; Nomenclature; Electrophilic Addition; Diels-Alder Reaction; Polymerization  6 Alkynes: Structure and bonding; Uses; Nomenclature; Physical Properties; Alkyne acidity; Reactions [2] p.263-286 [3] p.417-446  7 Aromatic Compounds: Structure and physical properties of benzenes; Nomenclature; Stability of benzene; Annulenes; Aromatic, Antiaromatic, and Nonaromatic Compounds; Polycyclic Aromatic Compounds Reactions of Aromatic Compounds Reactions of Aromatic Compounds Reactions of Aromatic Compounds: Electrophilic aromatic substitution reaction mechanism; Halogenation; Nitration; Sulfonation; Friedel-Crafts alkylation and acylation; Nuclcophilic Aromatic Substitution; Addition Reactions of Benzene Derivatives  8 Midterm exam  9 Alcohols: Structure and Classification of Alcohols; Nomenclature; Physical Properties, and Reactions Phenols: Structure, Properties, and Reactions Phenols: Structure, Nomenclature, Properties, and Reactions Phenols: Structure, Nomenclature, Properties, and Reactions [1] p.816-870 [2] p.604-648 [3] p.884-928 [1] Ketones: Structure, Nomenclature, Properties, and Reactions [1] p.938-975 [3] p.938-946 halides; Acid anhydrides [1] p.938-975 [3] p.938-946 halides; Acid anhydrides [2] p.227-098 [3] p.1054-1091 [1] p.218-230 Synthesis, Nomenclature of Alkyl Halides  10 Alkyl Halides: Common Uses, Structure, Physical Properties, [1] p.218-230 Synthesis, Nomenclature of Alkyl Halides
Isomerism in Cycloalkanes; Stabilitics of Cycloalkanes;   2  p.89-114
Substituted cycloalkanes; Polycyclic Systems   Toplem-Solving Lesson (tasks, mini-quizzes, brief lab explainer)
Problem-Solving Lesson (tasks, mini-quizzes, brief lab explainer)  4 Alkenes: Structure and Bonding; Unsaturation; Nomenclature; Alkenes: Structure and Bonding; Unsaturation; Nomenclature; Alkenes: Structure and Bonding; Uses; Reactions; Synthesis  5 Quiz I (Covers weeks 1-4)  Alkadienes: Classification; Configurational Isomers; Nomenclature; Electrophilic Addition; Diels-Alder Reaction; Polymerization  6 Alkynes: Structure and bonding; Uses; Nomenclature; Physical Properties; Alkyne acidity; Reactions [1] p.392-419 [2] p.263-286 [3] p.417-446 [1] p.713-747 [2] p.451-447 [2] p.451-479 [2] p.478-524 [2] p.478-52
explainer)  Alkenes: Structure and Bonding; Unsaturation; Nomenclature; Alkene Stability; Physical properties; Uses; Reactions; [2] p.185-262  Synthesis  Quiz I (Covers weeks 1-4)  Alkadienes: Classification; Configurational Isomers; Nomenclature; Electrophilic Addition; Diels-Alder Reaction; Polymerization  Alkynes: Structure and bonding; Uses; Nomenclature; Physical Properties; Alkyne acidity; Reactions [2] p.263-286  [3] p.417-446  Aromatic Compounds: Structure and physical properties of benzenes; Nomenclature; Stability of benzene; Annulenes; Aromatic, Antiaromatic, and Nonaromatic Compounds; Polycyclic Aromatic Compounds  Reactions of Aromatic Compounds: Electrophilic aromatic substitution reaction mechanism; Halogenation; Nitration; Sulfonation; Friedel-Crafts alkylation and acylation; Nucleophilic Aromatic Substitution; Addition Reactions of Benzene Derivatives  Midterm exam  Alcohols: Structure and Classification of Alcohols; Nomenclature; Physical Properties of Alcohols; Commercially important alcohols; Synthesis of Alcohols; Commercially important alcohols; Synthesis of Alcohols; Reactions  Problem-Solving Lesson (tasks, mini-quizzes, brief lab explainer)  Aldehydes: Structure, Nomenclature, Properties, and Reactions  Problem-Solving Lesson (tasks, mini-quizzes, brief lab explainer)  Ketones: Structure, Nomenclature, Properties, and Reactions  [1] p.816-870 [2] p.604-648 [3] p.884-928  11 Ketones: Structure, Nomenclature, Properties, and Reactions  Carboxylic Acids: Structure, Properties, and Reactions.  [1] p.816-870 [2] p.604-648 [3] p.884-928  11 Amines: Structure, Properties, and Reactions.  [1] p.816-870 [2] p.604-648 [3] p.884-928 [1] p.938-946  Alkyl Halides: Common Uses, Structure, Physical Properties, [1] p.918-230 [3] p.1054-1091 [1] p.218-230 [3] p.1054-1091 [4] p.218-230 [5] p.227-308
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