Identification	Subject	CHEM 111 Chemistry-	16ECTS		
Identification		Chemistry and Chemic		inσ	
	-	Undergraduate			
		Fall 2023			
		Valida Aliyeva			
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	Classroom/hours 2	206 O/ 13.40-15.10			
	2	202 N/ 13.40-15.10			
	Office hours				
Prerequisites					
Language	English				
Compulsory/Elect ive	Compulsory				
Required textbooks and course materials	 Chemistry (5th edition) written by Raymond Chang and Kenneth A. Goldsby in pdf published in 2008 [1] Chemistry The Central Science 14th Edition in pdf published in 2017 [2] 				
Website of course	This course is based on traditional face-to-face classes.				
Teaching methods	Lecture		X		
	Group discussion		X		
	Practical tasks		X		
Evaluation	Methods	Date/deadli	nes	Percentage (%)	
	Homework	Every wee	k	5	
	Participation	Each lesso	n	5	
	Quiz	Week 3, 10,	13	15	
	Midterm Exam	Week 7		20	
	Presentation/Group work	Week 3-1	5	15	
	Final Exam			40	
	Total			100	
Course outline	Chemistry" or "General school level. The goal ideas and theories that Periodicity, Chemical Reactions, Stoichiomet	I Chemistry," is freque of this course is to give support the study of Nomenclature, Ato try, Thermodynamics,	ently offere ve students a matter and mic Struct States of N	nown as "Introductory ed at the college or high a solid foundation in the d its changes. Chemical ure, Chemical Bonds, Matter, and other topics ry and related subjects,	

	they need to comprehend and manipulate matter.			
Course objectives	The following are common course objectives that are typically associated with			
Ū	Chemistry 1:			
	 Fundamental Knowledge: 			
	 Scientific Method: 			
	 Chemical Nomenclature 			
	 Chemical Equations 			
	 Stoichiometry 			
	 Atomic and Molecular Structure 			
	Chemical Bonding			
	 States of Matter The man demonstrate 			
	ThermodynamicsAcids and Bases			
Looming				
Learning outcomes	Here are some common learning outcomes associated with introducto			
outcomes	chemistry courses:			
	 Recognize the essential principles and ideas of chemistry. 			
	• Use mathematical and scientific concepts to address quantitative issues in			
	stoichiometry, thermodynamics, and chemical processes.			
	 Create and analyze chemical equations and formulas. Recognize the impact of chemical bonds on a substance's characteristics. 			
	 Be aware of the variables affecting the speeds of chemical reactions. 			
	 Be aware of the variables affecting the speeds of chemical reactions. Recognize and group acids and bases. 			
	 Determine the pH and pOH of basic and acidic solutions. 			
Policy	 Homework 			
	The topics covered in class are often covered through homework assignments.			
	You can strengthen your understanding of important concepts by doing puzzles			
	and activities on your own. Your understanding of fundamental concepts like			
	atomic structure, chemical processes, and stoichiometry is strengthened as a			
	result of your active participation.			
	Parcipitation			
	For a variety of reasons, participation in a classroom context is essential. It is			
	essential to the learning process, promotes teamwork, and aids in the general			
	success of both the individual students and the class as a whole.			
	 Presentation/Group work 			
	Students frequently have to explain difficult chemical ideas to their classmates			
	when they work in groups or make presentations. As they must break it down			
	into simpler terms and respond to inquiries from their classmates, teaching others			
	can help students get a deeper knowledge of the content			
	• Quiz			
	A consistent method of gauging your understanding of the content covered in			
	class is through quizzes. They assist you and your teacher in evaluating your			
	comprehension of important ideas and identifying any areas that can benefit from			
	more explanation.			
	 Withdrawal (pass/fail) 			
	The School Science and Engineering grading guidelines are carefully adhered to			
	throughout this course. In order to pass, a student must typically receive a mark			
	of at least 60%. If the student fails, the course.			
	Cheating/plagiarism			
	Any form of plagiarism or cheating on a test, quiz, or project will result in the			
	cancellation of the assignment. In this scenario, the student will receive a score			
	of zero (zero) without any further consideration.			

Professional behavior guidelines
During class hours, students are expected to conduct themselves in a way that
fosters a positive academic and professional atmosphere. Discussions without
permission and unethical conduct are absolutely forbidden.
 Ethics
In class, students shouldn't be late. During class, all electronic devices must be
put away and turned off.

	Tentative Schedule				
Weeks	Topics	Reference books			
1	Introduction	[1], [2]			
2	Atoms, molecules and ions	[1], [2]			
3	Chemical Reactions and reaction stoichiometry	[1], [2]			
4	Reactions in aqueous solution	[2]			
5	Gases	[2], [1]			
6	Electronic structure and atoms	[1], [2]			
7	Mid Exam				
8	The periodic table	[1], [2]			
9	Chemical bonding : The covalent bond	[2], [1]			
10	Physical properties of solutions	[1]			
11	Chemical kinetics	[2], [1]			
12	Chemical equilibrium	[2], [1]			
13	Acid and bases	[2], [1]			
14	Thermodynamics	[1]			
15	Chemistry of the environment	[2]			
	Final Exam				