



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Introduction to Chemistry I							
Course Code		KMY161		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	74 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		improve students' ability to think about mater's properties and measurement, atoms and atomic theory, electronic structure of atoms, the periodic table and give theoretical knowledge in a systematic and comprehensive on some atomic properties and the basic concepts of chemistry							
Course Content		Basic terms and unit systems in chemistry, classification and properties of matter, the periodic table and periodic properties, electronic structure of atoms, atomic mass and mole concept, chemical formulas, naming of compounds, reactions and stoichiometric calculations, chemical bonds, molecules and their properties, gases and solids, liquids and solutions, solution calculations, acids and bases							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Problem Solving					
Name of Lecturer(s)		Lec. Ali ERKUL							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Genel Kimya. Sabri Alpaydın - Abdullah Şimşek Nobel Yayın Dağıtım, 2009
2	Öğretim üyesi ders notları.

Week	Weekly Detailed Course Contents	
1	Theoretical	The basic unit and unit systems Chemistry
2	Theoretical	The classification and properties of the substance
3	Theoretical	Periodic table and periodic properties
4	Theoretical	electronic structure of atoms, atomic mass and mole concept
5	Theoretical	Chemical formulas
6	Theoretical	Nomenclature of Compound
7	Theoretical	Reactions and stoichiometric calculations
8	Theoretical	Chemical bonds
9	Theoretical	Molecules and their properties
10	Theoretical	Midterm
11	Theoretical	Gases and solids
12	Theoretical	Liquids and Solutions
13	Theoretical	Solution calculations
14	Theoretical	Acids and bases
15	Theoretical	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	22	1	23



Final Examination	1	22	1	23
Total Workload (Hours)				74
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To understand the aim of chemistry, material properties and the classification
2	To understand the first discoveries in chemistry, atomic theory and the structure of atoms
3	To understand the periodic table, and the number of moles Avogadro
4	To distinguish the periodic properties of elements, understand the types of chemical compounds, to make chemical formulas
5	being able to make stoichiometric calculations using chemical reactions and chemical reactions to distinguish equality
6	be able to understand covalent bonding, molecular geometry and hybridization of atomic orbitals

Programme Outcomes (Laboratory Technology)

1	To be able to comprehend social, cultural and social responsibilities, to be able to follow national and international contemporary problems and developments
2	Atatürk is bound to Atatürk nationalism in the direction of principles and reforms; Adopting the national, moral, spiritual and cultural values of the Turkish people, open to universal and contemporary developments, the Turkish language is a rich, rooted and productive language; Have a love of language and a consciousness; To have the ability to use as much of a foreign language as he would need to read, taste and habit and professionally.
3	To be able to recognize the basic hardware units and operating systems of a computer, having information about internet usage and preparing documents, spreadsheets and presentations on computer by using office programs.
4	Acquires theoretical and practical knowledge at the basic level in mathematics, science and vocational field.
5	With the knowledge of laboratory technology in the field, he knows and analyzes problems, brings interpretation of data and suggests solutions.
6	In laboratories, according to the prepared business plan and program, necessary work can be done to obtain the desired quality products.
7	To have professional and ethical responsibility in business life.
8	Development and change are open, follow scientific social and cultural innovations, and develop themselves constantly.

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

	L1	L2	L3	L4	L5	L6
P4	5	5	5	5	5	5
P6	3	3	3	3	3	3
P7	5	5	5	5	5	5
P8	4	4	4	4	4	4

