



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		General Chemistry							
Course Code		KMT109		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	80 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To give theoretical and comprehensive information about properties of matter and measurement, atoms and atomic theories, electron structure of atom, periodic table and some atomic properties and to improve students' ability to think about basic concepts of chemistry							
Course Content		Basic terms and unit systems in chemistry, Classification and properties of matter, Periodic table and periodic properties, Electronic structure of atom, Atomic mass and mole concept, Chemical formulas, Nomenclature of compounds, Reactions and stoichiometric calculations, Chemical bonds, Molecules and their properties, Gases and solids, Liquids and Solutions, Calculations of Solutions, Acids and Bases, Gases and Solids, Liquids, Solutions and Numerical Properties of Solutions, Calculations of Solutions, Acids and Bases,							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), 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	Genel Kimya. Sabri Alpaydın - Abdullah Şimşek Nobel Yayın Dağıtım, 2009
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Week	Weekly Detailed Course Contents	
1	Theoretical	Basic terms in chemistry and unit systems
2	Theoretical	Classification and properties of matter
3	Theoretical	Periodic table and periodic properties
4	Theoretical	Electronic structure of atom, atomic masses and moles
5	Theoretical	Chemical formulas, Chemical bonds
6	Theoretical	Nomenclature of compounds
7	Theoretical	Molecules and their properties
8	Intermediate Exam	midterm
9	Theoretical	Liquids and Solutions
10	Theoretical	Solutions and numerical properties of solutions
11	Theoretical	Solution calculations
12	Theoretical	Solution calculations
13	Theoretical	Acids and bases
14	Theoretical	Acid-base equilibria
15	Theoretical	Buffer solutions
16	Final Exam	final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Reading	14	0	2	28
Individual Work	6	0	2	12
Midterm Examination	1	5	1	6



Final Examination	1	5	1	6
Total Workload (Hours)				80
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To understand the purpose of chemistry, properties and classification of matter
2	To be able to comprehend the first discoveries in chemistry, atomic theory and atomic structure
3	To be able to comprehend periodic table, mole and avogadro number
4	Recognize solutions and make basic concentration calculations in solutions
5	Recognize solutions and make basic concentration calculations in solutions
6	Covalent bonding, comprehend atomic orbitals
7	To be able to recognize acid, base and buffer solutions

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	L6	L7
P1	3	4	4	3	2	2	3
P2	4	4	4	4	3	2	3
P3	5	3	4	3	2	3	4
P4	3	4	5	3	2	2	4
P5	4	3	4	4	2	1	5
P6	5	3	4	2	2	2	5
P7	5	4	3	2	5	4	4

