



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Introduction to Chemistry II							
Course Code		KMY162		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	74 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		to develop students' ability to think about, substance properties and measurement, atoms and atomic theory, the atomic electron structure of the periodic table and some atomic properties, compounds, stoichiometry and chemical reactions, gases, provide theoretical knowledge in a systematic and comprehensive information on chemical bonds and the basic concepts of chemistry							
Course Content		Gases and solids, liquids, solutions and numerical properties of the solution, the solution calculations, acids and bases, thermochemistry, chemical kinetics, chemical equilibrium and balance of species, solubility equilibria, acid-base equilibria, buffer solutions, thermochemistry, electrochemistry, organic chemistry, organic compounds, Biochemistry, Carbohydrates, Proteins, Lipids							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, 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
2	Öğretim üyesi ders notları.

Week	Weekly Detailed Course Contents	
1	Theoretical	Solids, liquids and gases
2	Theoretical	Solutions and numerical properties of the solution, the solution calculations
3	Theoretical	Acids and bases
4	Theoretical	Thermochemistry
5	Theoretical	chemical kinetics
6	Theoretical	Chemical balance and types
7	Theoretical	Solubility equilibria
8	Theoretical	Acid-base balance
9	Theoretical	Buffer solutions
10	Theoretical	Midterm
11	Theoretical	Electrochemistry, organic chemistry, organic compounds
12	Theoretical	carbohydrates
13	Theoretical	proteins
14	Theoretical	lipids
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	Covalent bonding, molecular geometry and hybridization of atomic orbitals be able to understand

Programme Outcomes (*Medical and Aromatic Plants*)

1	Understands the importance of medicinal and aromatic plants in the World and Turkey
2	Learn about the general characteristics of medicinal and aromatic plants. Learn the important issues in cultivation and can apply.
3	Learn about usage technologies about medicinal and aromatic plants and can apply.
4	Inform of producers of medicinal and aromatic plant species in offering, material supply, production process, marketing matter.
5	Know and follow the laws and regulations pertaining to the profession.
6	Learns morphological and anatomical structures of plants.
7	Learns to identify medicinal and aromatic plants.
8	To be able to behave sensitively towards environmental issues at national and global levels and to be able to interpret solution-oriented information; to be able to be an environmentally conscious and entrepreneurial individual
9	To be able to follow, evaluate and implement new developments and applications in the cultivation of medicinal and aromatic plants independently or as a team.

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

	L1	L5
P3	4	4
P7		1
P9	4	4

