



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Introduction to Chemistry II							
Course Code		KMY162		Couese Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	74 ( <i>Hours</i> )	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	Having the recognition, classification and the use areas knowledge of medical and aromatic plants
2	Having practical and technical knowledge about cultivation and production of medical and aromatic plants
3	Having knowledge of morphology, anatomy, cytology, physiology and biochemical structures of medical and aromatic plants
4	Having knowledge of important of soil conditions to grow medical and aromatic plants
5	Having information and the ability to use materials related with basic math and basic chemistry founded on qualifications gained in secondary education
6	Having ability to use effective own language and having knowledge of foreign language in order to communicate own colleagues and own customers
7	Having ability to collect medical and aromatic plants, having knowledge of seed technology, drying and conservation of these plants
8	Having ability to identify and to fight diseases and pests of medical and aromatic plants
9	Having knowledge of all Agricultural activities
10	Having knowledge of Atatürk Principle and Revolutions and to assimilate Atatürk Principle and Revolutions
11	Having consciousness of quality
12	Having knowledge and accumulation of investigative and evaluation
13	Ability to work as an individual capable of independent decision-making ideas verbally and in writing, stating the figure to communicate in a clear and concise
14	Ability to identify plants used for medical purposes and to obtain mixtures from drugs acquired these plants
15	Having skill and knowledge of marketing techniques medical and aromatic plants

**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
P3	5	5	5	5	5	5

