



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 (Textile Technology)

1	1. To have basic theoretical and practical knowledge related to the field of textile technology, weaving, finishing process and pattern design. Be able to recognize problems, develop solutions for the problems, designing and having the ability to use theoretical knowledge in practical applications.
2	2. Be able to identify problems, develop solutions to the problems, be able to devise, to have the ability to use theoretical knowledge in practical applications by using acquired the basic knowledge and skills in the field. – Be able to choose technical equipments which are needed for applications in the field and use effectively. - Awareness of the need for life-long learning to follow developments in the textile technology, learning independently and to gain awareness of continuous self-renewal. - Be able to examine the application of production processes in the textile industry. – Be respectful to their own history and to be conscious about the subjects of social responsibility, universal and social and professional ethics.
3	3. To have basic theoretical and practical knowledge related to the field of textile technology, weaving, finishing process and pattern design. To be conscious about the subjects of job security, the information of environmental protection, quality awareness and being conscious of participating in team work.
4	4. Be able to identify problems, develop solutions to the problems, be able to devise, to have the ability to use theoretical knowledge in practical applications by using acquired the basic knowledge and skills in the field. - To be conscious about the subjects of job security, the information of environmental protection, quality awareness and being conscious of participating in team work.
5	5. Be able to examine the application of production processes in the textile industry. Be able to identify problems, to develop solutions to the problems, be able to devise, to have the ability to use theoretical knowledge in practical applications by using acquired the basic knowledge and skills in the field. Be respectful their own history and be conscious about the subjects of social responsibility, universal and social and professional ethics.
6	6. Be able to examine the application of production processes in the textile industry. To be aware solutions and applications of the effects of global and societal context in technician-level; being aware of entrepreneurship and innovation, and to have knowledge of the issues of the age.
7	7. To gain the knowledge and awareness of Atatürk's principles & reforms and using Turkish Language effectively.
8	8. To gain the knowledge about his/her society and to gain a different point of view about the world

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
P1	2	3	3	3	3	3
P2	2	3	3	3	3	3
P3	2	3	3	3	3	3

