



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Chemistry I							
Course Code		GT127		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Explaining of general chemical concepts and the creation of infrastructure in accordance with the chemistry program							
Course Content		Article structure, mole concept and chemical calculations, acids and bases, periodic table and chemical bonding and solutions							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Problem Solving					
Name of Lecturer(s)		Assoc. Prof. Rukiye FIRINCI							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Chemistry Raymond Chang international edition 2010/ISBN 978-007-127220-9
2	Biyokimya Prf.Dr. Fahrünnisa PAMUK 2011/ 978-605-5543-42-6
3	Temel Kimya M.J. Sienko-R.A. PLANE 1984
4	Temel Kimya Peter Atkins; Loretta Jones; Çev.; Prof. Dr. Esmâ Kılıç, Prof. Dr. Fitnat Köseoğlu, Doç. Dr. Hamza Yılmaz Ankara / 13.1998 9789755560335
5	Genel Kimya 1 - Hüseyin Bağ Giray Topal ISBN: 9789944919425 Eylül 2012

Week	Weekly Detailed Course Contents	
1	Theoretical	Materials, the structure atoms, elements, compounds and ions
2	Theoretical	Molecules, molecular structure and molecular weight
3	Theoretical	Mole concept and chemical calculation
4	Theoretical	Chemical Calculations
5	Theoretical	Chemical Calculations
6	Theoretical	Solution and solution environments
7	Theoretical	Acid-base reactions and titration
8	Intermediate Exam	Midterm exam
9	Theoretical	Acid-base reactions and calculations
10	Theoretical	Acid-base reactions and calculations
11	Theoretical	Preparing aqueous and alcoholic solution
12	Theoretical	Periodic table and chemical bonding
13	Theoretical	Chemical bonds and chemical interactions
14	Theoretical	Boiling point, atmospheric pressure and gases
15	Theoretical	Chemical Equipment
16	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	5	0	3	15
Individual Work	10	0	2	20
Midterm Examination	1	4	1	5



Final Examination	1	6	1	7
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	To understand the material and features
2	To preparing solutions
3	Knowing the acid and base solutions
4	Being able to recognize and use chemical tools and equipment
5	To understand the chemical bond structures

### Programme Outcomes (Food Quality Control and Analysis)

1	Having basic knowledge about food products
2	Having knowledge for Production and hygiene in food products, preservation, microbiology, quality control and analysis
3	Having skills and discipline for working in the laboratory and using laboratory materials,
4	Developing positive attitudes about learning and knowledge and lifelong learning in the field.
5	Using the information and communication technologies at the level required by the work areas
6	Act in accordance with scientific, cultural and ethical values
7	Having sufficient consciousness about environmental protection, occupational health and safety issues.

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

	L1	L2	L3	L4	L5
P1	3	4	4	3	3
P2	3	4	4	3	3

