GENERAL CHEMISTRY

1	Course Title:	GENERAL CHEMISTRY	
2	Course Code:	KMY1077	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	1	
11	Prerequisites:	Nona	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. DUYGU İNCİ ÖZBAĞCI	
15	Course Lecturers:	Prof. Dr. Ali KARA	
16	Contact information of the Course Coordinator:	Doç. Dr. Ümran SEVEN ERDEMİR Bursa Uludağ Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü 16059 Görükle-Nilüfer/Bursa Tel: 0224 29 42943 e-posta: useven@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	In this course the chemical structures of the matter and the attraction forces between the bonds will be told. İt will be given the major chemistry information. How to use the periodic table, the properties and reactions of elements, analytical designing basics of the elements will be given	
19	Contribution of the Course to Professional Development:	Students will graduate with knowledge of important and basic concepts in chemistry, which is one of the basic sciences area that will be used frequently in their profession.	
20	Learning Outcomes:		
		1	To train students in understanding chemical properties, the structure of the atom,the molecular geometry and the chemical bonds.
		2	To provide knowledge on chemical equations, quantitative correlations, and gases.
		3	To train the students in understanding liquids and solids, oxygen, hydrogen and solutions.
		4	To train the students in understanding electrochemistry, calculations of pH and pOH and organic chemistry.
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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	matter	Basic Laboratory Information
2	Atom and atomic theories	Separation Techniques
3	chemical compounds	Physical and Chemical methods
4	chemical reactions	Glass materials used in structural analysis
5	Aqueous solution reactions	Basic features of Distillation, Precipitation and Crystallization Methods
6	Gases	Cleaning Glass Materials
7	Gases	Washing Solutions
8	Midterm exam	Organic and Inorganic Washing Solutions
9	Thermochemistry	Solution Preparation
10	Thermochemistry	Solution Preparation
11	Liquids	Solution Preparation
12	Solids and intermolecular forces	Acidic and Basic Titrations

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	3.00	42.00
Practicals/Labs		14	1.00	14.00
Self study and preperation		10	8.00	80.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		1	20.00	20.00
Others		0	0.00	0.00
Final Exams		1	24.00	24.00
Total Work Load				180.00
Total workload/ 30 hr				6.00
ECTS Credit of the Course				6.00

Contribution of Term (Year) Learning Activities to Success Grade	40.00
Contribution of Final Exam to Success Grade	60.00
Total	100.00

22	Textbooks, References and/or Other Materials:	1) MORTIMER, Chemistry Sixth Edition, Library of Congress Cataloging in Publication Data Chemistry,1976 by W.H. Freeman and Company. 3) Organic Chemistry, Buuterworth Group, ISBN	
23	Assessment		
TERM LEARNING ACTIVITIES		**NUMBER**	**WEIGHT**
Quiz		0	0.00
Final Exam		1	60.00

Measurement and Evaluation Techniques Used in the Course	Traditional and new complementary approaches will be used together in measurement. Traditional methods (90% effective): 1. Classic written exam (2 exams, mid-term and final) Complementary methods (10% effective): 1. Observation / self-assessment according to participation with answering questions asked during the lesson The evaluation will be made according to the scores specified in Bursa Uludağ University Undergraduate Education and Training Regulations for classes with less than 20 students or by relative evaluation system for classes more than 20.

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	4	0	4	0	0	2	2	2	0	0	0	0	0	0	0	0
ÖK2	4	0	4	0	0	2	2	2	0	0	0	0	0	0	0	0
ÖK3	4	0	4	0	0	2	2	2	0	0	0	0	0	0	0	0
ÖK4	4	0	4	0	0	2	2	2	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				