BASIC CHEMISTRY

1	Course Title:	BASIC CHEMISTRY
2	Course Code:	ORG105
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	2.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr.Gör. ÇİĞDEM GÜCEYÜ
15	Course Lecturers:	Öğr.Gör.Dr. HÜSEYIN CAN ALPSOY Öğr.Gör.Çiğdem GÜCEYÜ
16	Contact information of the Course Coordinator:	Öğr.Gör.Çiğdem GÜCEYÜ 0224 2942890 cguceyu@uludag.edu.tr Teknik Bilimler Meslek Yüksekokulu Gıda İşleme Bölümü /Gıda Teknolojisi Programı
17	Website:	
18	Objective of the Course:	To teach chemistry concepts, the basic laws of chemistry, chemical calculations and explain the theory.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Be able to understand the importance and definition of chemistry,
	2	There will be information about the structure of chemical substances that may be encountered in food enterprises,
	3	Of chemical substances used in business, they have knowledge in the preparation of the solution,
	4	In the context of industrial applications gain problem-solving skills.
	5	Using theoretical and experimental methods to produce reliable products by removing the risks that may occur after food production.
	6	To gain life-long learning skills to monitor developments in chemistry subjects.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Definition of kim and related topics. structure and properties of matter. Element, compound, mixture, definition and properties.	
2	Measurement and measurement units. Atomic structure and atomic theories.	
3	Periodic table and its properties. Chemical event. Nomenclature of compounds.	
4	The concept of mole. Basic chemistry laws. Finding formulas	
5	Chemical equations. Gases and important gas laws.	
6	Solutions and properties. Solubility and factors affecting solubility.	
7	Solution types (% solutions, Molarity, normality)	
8	Solution types (Molality, ppm solutions). Acids and bases. The concept of pHve pOH.	
9	Course recitation and midterm exam	
10	Organic chemistry. Structure and basic properties of hydrocarbons	
11	Alkanes, alkyl groups, alkenes, nomenclature, properties and methods of obtaining	
12	Alcohols, ethers, aldehydes and ketones,	
13	Organic acids, esters, amines, nomenclature,	
14		
22	Textbooks, References and/or Other	• C.E. MORTİMER, (Çeviren: Prof.Dr. Turhan Altınata), (2004) • Petrucci,Harwood, (Çeviren: Tahsin Uyar), Genel Kimya I yayın No: 109, Ankara, (1994). • Prof.Dr.Cemil Şenar, Temel Kimya, Hacettepe (1978). • Prof.Dr.Doğan SÜMENGEN. Organik Kimya Cilt I. Hakan Ofset, İstanbul, 1986 • Prof.Dr.Doğan SÜMENGEN. Organik Kimya Cilt II. Hakan Ofset, İstanbul, 1986 • Ömer BAYIN, Çözümleriyle Kimya Problemleri.Ankara.1964 • Chang,R.,Goldsby, K.A. 2014. Genel Kimya. Çeviri Editörleri:R.İnam, S.Aksoy. Palme Yayıncılık. İstanbul. • Wertheim,J., Oxlade,C.,Stockley, C.2013. Şekilli Kimya Sözlüğü.Çeviri:Z.Gürsoy.TÜBİTAK Popüler Bilim Kitapları 352. Ankara. • Sayısal 2 Modern Fen, Yıldırım Yayınları, Ankara • ÖSS Kimya, Güvender Yayınları, Temmuz, 2000 • ÖSS Kimya, Güvender Yayınları, Kasım, 2006
23	Assesment	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.00	14.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	24.00	24.00
Others	0	0.00	0.00
Final Exams	1	24.00	24.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			2.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00

Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		

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	0	0	4	1	1	0	0	1	1	0	0	0	0	0	0	0
ÖK2	2	0	3	0	2	0	0	1	1	1	0	1	0	0	0	0
ÖK3	0	3	4	1	2	3	2	1	1	1	1	1	0	0	0	0
ÖK4	4	4	4	3	3	4	2	2	1	1	1	1	0	0	0	0
ÖK5	4	5	5	3	4	4	2	2	2	1	3	1	0	0	0	0
ÖK6	4	4	5	3	4	3	2	2	1	1	5	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				