

GENERAL CHEMISTRY

1	Course Title:	GENERAL CHEMISTRY	
2	Course Code:	KIM1077	
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:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. AYHAN YILDIRIM	
15	Course Lecturers:	Prof. Dr. GANI KOZA	
16	Contact information of the Course Coordinator:	serkanozturk@uludag.edu.tr 0224-2755093	
17	Website:		
18	Objective of the Course:	To provide knowledge by explaining the basic subjects of chemical science that computer engineering students will need.	
19	Contribution of the Course to Professional Development:	To develop problem solving skills of Computer Engineering students by understanding the importance of chemistry.	
20	Learning Outcomes:		
		1	Recognize the elements and compounds.
		2	Knows the material and its properties.
		3	Knows the general principles of chemistry.
		4	Establishes a relationship between Chemistry and Computer Engineering.
		5	Learns the basic concepts of chemistry.
		6	Interpret basic chemistry concepts.
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		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Material, Atom and Period System		
2	Chemical Formulas and Stoichiometry of Components		
3	Chemical Bond and Nomenclature in Inorganic Compounds		
4	Basic Laws of Chemistry		
5	Solutions		

6	Solutions	
7	Acids, Bases and Salts	
8	The Strength of Acids and Bases	
9	Liquids and Solids	
10	Gases	
11	Thermochemistry	
12	Redox Reactions and Electrochemistry	
13	Reaction Rate	
14	Chemical Equilibrium	

22	Textbooks, References and/or Other Materials:	Uyar, T. and Aksoy, S. (Translation editors), (Petrucci, RH; Harwood, WS; and Herring, FG), General Chemistry, Principles and Modern Practices 1st Volume, Palme Publishing, 8th Edition, 2002, Ankara
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23	Assesment	
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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

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Total	100.00		
Practicals/Labs	14	1.00	14.00
Self-study and preparation	choice or open ended questions.	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 work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

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	5	4	3	3	2	2	3	3	3	2	1	4	0	0	0	0
ÖK2	5	4	3	3	3	2	3	2	3	2	1	4	0	0	0	0
ÖK3	5	4	3	3	3	2	3	2	3	2	1	4	0	0	0	0
ÖK4	5	4	4	4	3	2	3	2	4	3	1	4	0	0	0	0

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