	ВА	SIC C	HEMISTRY II					
1	Course Title:	BASIC CHEMISTRY II						
2	Course Code:	BES1012						
3	Type of Course:	Compulsory						
4	Level of Course:	First Cycle						
5	Year of Study:	1						
6	Semester:	2						
7	ECTS Credits Allocated:	4.00						
8	Theoretical (hour/week):	2.00						
9	Practice (hour/week):	2.00						
10	Laboratory (hour/week):	0						
11	Prerequisites:	None						
12	Language:	Turkish						
13	Mode of Delivery:	Face to face						
14	Course Coordinator:							
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	msaksoy@uludag.edu.tr Tel: 0 (224) 2941740 Uludağ Üniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü, 16059, BURSA						
17	Website:							
18	Objective of the Course:	The purpose of this course is to teach the electronic structure of atoms, some atomic properties, chemical bonding of molecules, molecular geometry, properties of liquids and solids, intermolecular interactions, the physical properties of solutions, chemical equilibrium, and acid-base reactions						
19	Contribution of the Course to Professional Development:	With this course, the student gains some important concepts in the field of chemistry that are necessary for his professional development.						
20	Learning Outcomes:							
		1	Learn the concept of orbital and the electron configuration of the atom.					
		2	Learns the concepts of atomic radius, ionization energy and electron affinity.					
		3	Learns the concepts of Together with the theory of chemical bonding find Lewis symbol and geometry of molecules, polar and non-polar molecules.					
		4	Learns the concepts of liquid properties (surface tension, viscosity, vapor pressure), melting point, boiling point, phase diagrams, intermolecular interactions, hydrogen bonding.					
		5	Learns the concepts the type and concentration of the solution, the solubility of gases, vapor pressure and the osmotic pressure of the solution, the solution to the freezing point depression and boiling point elevation.					
		6	Learns the concepts equilibrium conditions, the equilibri constant and equilibrium calculations.					
		7	Learns the concepts modern acid-base theories, factors affecting the strength of acids and bases, pH scale.					
		8	Learns the concepts ion concentration of weak acids and bases in aqueous solution to be calculated.					

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		10									
21	Course Content:	l									
	Course Content:										
Week	neoretical Practice										
1	Electronic Structure of Atoms										
2	Electronic Structure of Atoms										
3	Periyodik Çizelge ve Bazı Atom özell	ikleri									
4	Periodic table and some atomic prop	erties									
5	Chemical Bonding I										
6	Chemical Bonding I (cont.)										
7	Liquids, Solids and Intermolecular Fo	rces									
8	Liquids, Solids and Intermolecular Fo	orces									
9	MIDTERM										
10	Solutions and Physical Properties										
11	Solutions and Physical Properties (co	ont.)									
12	Chemical Equilibrium										
13	Acids and Bases										
14	Acids and Bases (cont.)										
Activites		Number	Number Duration (hou								
Th zeg re	i⊂9 sesment		14	2.00	28.00						
Practic	als/Labs		14	2.00	28.00						
Self stu	udy and preperation	1	14	2.00	28.00						
Homew			0	0.00	0.00						
Project	S work-project	0		0.00	0.00						
Field S			0	0.00	0.00						
Midtern	n exams	2	100.00	16.00	16.00						
Others			0	0.00	0.00						
5inel Es	Salade	-53 10	1	20.00	20.00						
Total W	Vork Load				120.00						
Total w	ork load/ 30 hr		100.00		4.00						
	Credit of the Course	san III III a	nvasenramani sirr		4.00						
Course	rement and Evaluation Techniques os	the principles of B	d evaluation are carried of Fursa Uludağ University A Ducation Regulation.								
24	ECTS / WORK LOAD TABLE										
25	CONTRIBUTION	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME									

QUALIFICATIONS PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3

Contrib 1 very low ution Level:			2 low		3 Medium			4 High		5 Very High						
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	3	1	3	4	1	3	4	1	3	4	4	5	2	3	3	4
ÖK7	4	2	3	5	1	3	5	1	3	4	5	5	4	4	3	3
ÖK6	4	3	3	5	1	4	4	1	3	4	5	5	3	3	2	3
ÖK5	4	1	3	5	1	5	5	1	3	4	4	4	2	2	3	4
ÖK4	3	1	3	4	1	5	5	1	3	4	4	4	3	2	3	3