	ANAL	YTICA	L CHEMISTRY I						
1	Course Title:	ourse Title: ANALYTICAL CHEMISTRY I							
2	Course Code:	KIM2001							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	le						
5	Year of Study:	2							
6	Semester:	3							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	4.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	face						
14	Course Coordinator:	Prof. Dr.	BELGİN İZGİ						
15	Course Lecturers:	Prof.Dr. MEHMET HALUK TÜRKDEMİR Prof. Dr. Saliha ŞAHİN Prof. Dr. Elif TÜMAY ÖZER Doç. Dr. Ümran SEVEN ERDEMİR							
16	Contact information of the Course Coordinator:	Prof. Dr. Belgin İZGİ belgin@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	The aim of this course is to give basic principles and concepts (concentration, dilution, precipitation, complex formation reactions, basic electrochemistry, evaluation of data, etc.) chemical reaction in solution.							
19	Contribution of the Course to Professional Development:	It provides the basis for the place and applications of basic analytical knowledge in the field of Chemistry							
20	Learning Outcomes:								
	•	1	Knows fundamental chemical analysis methods.						
		2	Dominated by the accounts of concentration in aqueous solution chemistry.						
		3	Can choose and explore a qualitative analysis method.						
		4	Evaluate the results of the analysis in terms of accuracy and precision.Can practice chemical analysis method in laboratory.						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
	Theoretical		Practice						
1	What is analytical chemistry? Analyt chemistry, chemicals, supplies and b operations								

	The us chemis chemis	try, cal															
	Errors in chemical analysis																
4	Aqueous solutions and chemical equilibrium																
5	Aqueous solutions and chemical equilibrium																
6	Effects of electrolytes on chemical equilibrium																
7	Solutio system		uilibriu	m pro	blems	in con	nplex										
8	Midterr	n and S	Solutio	n of e	quilibriu	um pro	blems	6									
9	Solutio	n chen	nistry: a	acid-b	ase rea	actions	6										
10	Solution chemistry: acid-base reactions																
11	Solutio	n chen	nistry: p	orecipi	itation I	reactio	ons										
12	Solutio	n chen	nistry: r	edox	reactio	ns											
13	Midterm and redox reactions																
14	Solutio	n chen	nistry: r	edox	reactio	ns											
22 Activit									1] Kılıç, E. ve Yılmaz, H. (Çeviri editörleri), (Skoog, D.A.; West, D.M.; Holler, F.J. ve Crouch, S.R.), Analitik Kimya Temel İlkeler 1. Cilt, Bilim Yayıncılık, 8. Baskı, 2007, Ankara.[2] Gündüz, T. Kantitatif Analiz Ders Kitabı, Gazi Kitabevi, 7. Baskı, 2003. Ankara.[3] R. Kellner, J.M. Mermet, M.Otto, H.M. Widmer, 1997 " NumberNumber								
		nent							4					,	Load (hour)		
TEDMI												2.00			28.00		
Practica									4			2.00			28.00		
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<b>fr/i∉t</b> erm	n exam	3				3			100.00						16.00		
Others										0					0.00		
FINGE								1	1				)		20.00		
Total W									100.00						120.00		
	work load/ 30 hr													4.00			
ECTS C	credit o	the C	ourse					IRe	Relative evaluation is applied.								
	ECTS	/ WC	RKI			IF			lative	evalua		applied.					
25				-								е то I			ME	]	
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROG QUALIFICATIONS																
	PQ	1 PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	0	5	0	4	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	

ÖK4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:					2 low		3 Medium			4 High			5 Very High			