	ANAL	YTIC	AL CHEMISTRY							
1	Course Title:	ANALY	TICAL CHEMISTRY							
2	Course Code:	GMD22	19							
3	Type of Course:	Compul	sory							
4	Level of Course:	First Cy	cle							
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	3.00								
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:	Prof. Dr	. BELGIN İZGİ							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	Doç. Dr. Elif TÜMAY ÖZER (U.Ü. Fen-Edebiyat Fakültesi, Kimya Böl. Öğr. Üyesi) 29 42 866 etumay@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. Investigation of technological and classical quantitative methods which are used in national and international standard analysis. Evaluation of quantitative results via accuracy and precision.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Knows fundamental chemical analysis methods.							
		2	Dominated by the accounts of concentration in aqueou solution chemistry.							
		3	Gain skills for the optimization of the method of chemical analysis.							
		4	Can evaluate the results of chemical analyses via accuracy and precision.							
		5	Can practice chemical analysis method in laboratory.							
		6	Gain the ability of analytical thinking and problem solving.							
		7								
		8								
		9								
		10								
21	Course Content:									
		C	ourse Content:							
	Theoretical		Practice							
1	The definition of analytical chemistriconcepts of qualitative and quantita analysis									

2	To give concentration units; mass (									
	molality and so on.) and volumetric normality,	(molarity,								
	ppm, etc.). and problem solving.									
3	Definition of chemical equilibrium, a definitions and examination of the a equilibrium constants		Ī							
4	general questions and solutions for three weeks of the concept of pH ar calculations									
5	To emphasize what is the purpose of pH combining the concept of but solutions, ionic strength, and activity information									
6	Removal of rules and formulas of the electrochemistry	ie basic								
7	Electrochemical reaction completion usage of the Nernst equation	n and								
8	midterm exam, problem solving rela Nernst equation	ated with								
9	Acid base titrations and problem so based on	olving								
10	Precipitation titrations and solving p based on	roblems								
11 Activit	Complex formation titrations and so	lving	L	Number						
43	I/ roumetrie englygie and problem o	oly ap a			Duration (hour)	Load (hour)				
	Gravimetric analysis and problem s	oiving	L	14	2.00	28.00				
	als/Labs			0	0.00	0.00				
	dy and preperation		1	14	2.00	28.00				
Homev			_	0	0.00	0.00				
Project			<u>IH</u>	OCompanies, ISBN 0-		<u> </u>				
Field S				0	0.00	0.00				
	n exams		S	aundersCollege Publis						
Others				0	0.00	0.00				
Final E			П	aniel C. Harris, 1982, (	JUBOUTATIVE Chemic					
	Vork Load Vork load/ 30 hr		ь	rof.Dr. Turgut Gündüz,	2004 Kantitatif An	86.00				
	Credit of the Course		<u>اٰ</u> ٰٰٰٰ	toh. Coni Kitahavi (4)	2004, Kantitatii An	3.00				
	Assesment					3.00				
23 TERM I	LEARNING ACTIVITIES	NUMBE R	w	EIGHT						
Midterr	m Exam	1	40	0.00						
Quiz		0	0.00							
Home	work-project	0	0.	0.00						
Final E	xam	1	60	60.00						
Total		2	10	100.00						
	oution of Term (Year) Learning Activi ss Grade	ties to	40	40.00						
Contrib	oution of Final Exam to Success Grad	de	60	60.00						
Total			1(	00.00						
Total			[10	JU.UU						

Measurem	ont ar	nd Eva	duatio	n Too	hnique	s Hea	d in th									
Course	ciit ai	IU LVE	ilualio	11 160	mique	,3 U3C	u III li									
24 EC	CTS/	WO	RK L	OAD	TAB	LE		•								
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			LO: L	earr	ning (	Objec	tive	s F	Q: P	rogra	am Qu	alifica	ations	5		•
Contrib 1 very low ution Level:			,	2 low	,	3	Medi	ium		4 Hig	h		5 Ver	y High	1	