	GENERAL CHEMIS	STRY	III (ANALYTIC CHEMISTRY)						
1	Course Title:	GENER	AL CHEMISTRY III (ANALYTIC CHEMISTRY)						
2	Course Code:	KIM2013							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	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):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Doç. Dr. SEVGÜL ÇALIŞ							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	scalis@uludag.edu.tr, 224 2942227, Uludağ Üniversitesi Eğitim Fakültesi, A Blok, İlköğretim Bölümü, 16059 Nilüfer,Bursa							
17	Website:								
18	Objective of the Course:	The purpose of this course is to give the ability of performing analytical chemistry analysis methods to students.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Recognizes structure and components of matter						
		2	Recognizes the methods of determination of unknown matters						
		3	recognizes the steps of chemical processes.						
		4	Analyzes and estimates the data in the related scientific problem						
		5	Gains ability on research and learns scientific method						
		6	Applies the content of this course daily life.						
		7	Gets information about definition, formulation and solution of problems						
		8	Uses qualitative and quantitative analysis techniques, skills, and modern tools necessary for practice in chemistry						
		9							
		10							
21	Course Content:								
	Course Content:								
	Theoretical		Practice						
1	chemistry		Student presentations related the topic						
2	Methods for the identification of quali and quantitative analysis	itative	Student presentations related the topic						
3	The errors on chemical analysis		Problem solving						

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS										
24	ECTS / WORK LOAD TABLE	•								
Course	<u>,                                      </u>				19.00					
. 0.0.	Credit of the Course		100.00		3.00					
	vork Load vork load/ 30 hr		400.00		151.00 5.03					
	୭ର୍ଲ୍ଗୋଡ଼de Vork Load		1	15.00	15.00					
Others			0	0.00	0.00					
. 0101	m exams	2	100.00	10.00	10.00					
Field S			0	0.00	0.00					
	₩ork-project	0	0.00	0.00	0.00					
Homew	vorks		0	0.00	0.00					
Producti	HdExand preperation	1	401 <del>0</del> 0	5.00	70.00					
Practic	als/Labs	1	14	2.00	28.00					
Th <b>23</b> re	Assesment		14	2.00	28.00					
Activit	tes		Number	Duration (hou	Total Work Load (hour)					
14	Methods of instrumental analysis.		Problem solving							
13	Nonaqueus media titrations, comple analysis	exometric	Problem solving							
12	Titrimetric analysis	Problem solving								
11	Quantitative analysis: gravimetric ar	nalysis,	Problem solving							
10	pH and pOH, acids and bases of eq buffer solutions.	uilibras,	Problem solving							
9	Acids and bases, weak acids and w bases, strong acids and strong base monoacid-monobase, polyfunctiona	es,	Acid and base titrations							
8	Chemical equilibrium, homogen and heterogen of equilibrium reactions	l	Problem solving							
7	Redox reactions		Problem solving							
6	Neutralization and complex reaction	S	Problem solving							
5	Important chemical reactions for ana chemistry: precipitation	alytical	Problem solving							
4	Solutions, solvents, solubility, solution concentrations	on of	Problem solving							

## 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	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
ÖK5	0	4	0	0	5	0	0	0	5	5	0	0	0	0	0	0
ÖK4	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0