

## YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES CHEMISTRY DEPARTMENT COURSE PLAN

Cours Code	( Olirea Litia			Semes ter	Course Type (C/E)	T+A+L (Time/Week)	Credi t	ECT S	Course Language		
KİM23	33 Analytical Chemistry II			3	C	4+0+0	4	6	Turkish		
					COURSE	INFORMA	TION				
Course Catalog Description (Content)			To teach the basic analytical chemistry concepts to the chemistry students and gain some skills with methods for the qualitative and quantitative analysis of samples.								
The Aim of the Course						with sufficient Chemistry.	knowledg	je abo	ut the basic		
Course	Course Level			Undergraduate							
Course	e Langı	ıage		Τι	ırkish						
Teachi	ing met	hod		(X	) Formal	( ) Onlii	ne (X ) Mixed/H	ybrid			
Teachi	ing Sta	ff of the	Course	Pr	of.Dr.İsma	ail AKDENİ	Z				
Prereq Course		Course(	(s) of the	-							
Course			3. 4.	<ol> <li>used during the measurements and the results of the analysis.</li> <li>Performs experiments, collects data, interprets, evaluates the results, and produces solutions to the problems encountered in the laboratory.</li> <li>Calculates and processes chemical information and data.</li> <li>Defines and comprehends chemical concepts and theories in Analytical Chemistry.</li> <li>Apply chemistry knowledge and understanding to the solution of unconventional qualitative and quantitative problems.</li> </ol>							
			1		CC	OURSE CO					
Week	Theor				9/3		ractice/Laborato	ory			
1			o chemical ana Ivsis	lysis	and error	s in					
2		chemical analysis Indeterminate errors in chemical analysis									
3		Application of statistical analysis in evaluation of analytical data				ion of					
4		Gravimetric methods of analysis									
5		Titrimetric methods of analysis									
6		Titrimetric methods of analysis									
7		Chemistry of aqueous solutions									
8		Chemistry of aqueous solutions									
9		Effect of electrolytes on chemical equilibrium				m					
10	· .	Complex equilibrium systems									
	Comp	Complex equilibrium systems									
11	Comp	iox oqui	ilibrium system	S							
11 12	· .		ilibrium system ilibrium system								
	Comp	lex equi y of neu		s tions							



15 Final Exam

## **Course Learning Resources**

- 1. Fundamentals of Analytical Chemistry, D. A. Skoog , D. M. West, F.J. Holler S. College Pub. US, 1996
- 2. Quantitative chemical analysis, D.C. Harris, W.H. Freeman and Company, US, 1982

ASSESSMENT CRITERIA									
Work Activities During the Semester Number Contribution									
Homework									
Practice									
Forum/ Discussion Application									
Short Exam (Quiz)	3	100							
Ratio Of Semester Studies To Semester		50							

Success (%) Ratio of Final to Success (%) 50 Total %100

COURS	E WO	DKIC	VD T	VBI E
COURS	$\mathbf{E}$	KNLU	I UAI	ABLE

Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Theory	14	4	56
Practice	14	2	28
Forum/ Discussion Application			
Reading	14	1	14
Internet Scanning, Library Study	14	3	42
Material Design, Application		1)	
Report Preparation			
Presentation Preparation	10		
Presentation	- M/		
Final Exam	97-11	2	2
Preparation for the Final Exam	1	10	10
Other(s) (Preparation for Quizzes and Exams)	3	3	9
Total Workload	161		
Total Workload / 25 (s)	161/25		
ECTS Credits of the Course	≌6		
Note: The workload of the course will be			

basis.

## PROGRAM LEARNING OUTPUTS CONTRIBUTION LEVELS

No	Program Learning Outputs	1	2	3	4	5
1	Gains extensive knowledge about the basic chemical properties of matter and uses this knowledge in daily life, industrial scale, and practical chemistry and shares them with the society.				X	
2	Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological developments, produces solutions against problems encountered in the laboratory.					X
3	Calculates and processes chemical information and data.					X



4	Applies her/his knowledge and understanding of chemistry to the solution of unconventional qualitative and quantitative problems.			X		
5	Defines and comprehends chemical concepts and theories in Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry.					X
6	Can conduct research in the light of scientific data on any subject in the field of chemistry.			X		
7	Writes, presents, discusses scientific material, and presents it orally to a knowledgeable audience.		X			
8	Brings a chemical approach to the solution of environmental problems, makes environmental analyzes and reports.			X		
9	Knows a foreign language at a level to read and understand the basic terms and processes of the chemist profession.	X				
10	Can use computer software and information and communication technologies at the level required by the field.	X				
11	Adapts and transfers the knowledge gained in the field to secondary education.				X	
12	Apart from the field of chemistry, she/he gains knowledge in different branches of science that she feels close to.			X		
13	Carries out a study independently, makes group work and gains the awareness of taking responsibility.			X		
14	They can develop a positive attitude towards lifelong learning and constantly renew their professional knowledge and skills.				X	
15	Have sufficient awareness of the universality of social rights, social justice, quality culture and protection of cultural values, environmental protection, occupational health and safety.				X	

