

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

Cours Code			Semes ter	Course Type (C/E)	T+A+L (Time/Week)	Credi t	ECT S	Course Language		
KİM71	5 Water Che	mistry		E	2+0+0	2	5	Turkish		
			COURSE	INFORM	ATION					
Course Catalog Description (Content)  The Aim of the Course		Recognition and properties of water, Drinking water and its sources, underground water, wastewater contents and removal, water reserves in Turkey and in the world, water analysis and quality control, correct use in industry								
		Evaluation of water, an indispensable substance for life and the basic substance of civilization, in terms of chemistry and explaining its importance.								
Course	e Level		Undergradu	ate						
Course	e Language		Turkish							
Teachi	ng method		(X) Formal	( ) On	line (X ) Mixed/H	ybrid				
Teachi	ng Staff of the	Course	Prof. Dr. İsm	nail AKDE	NİZ					
Prerequisite Course(s) of the Course Learning Outcomes from the Course		s) of the	-							
		<ul> <li>and the world, the importance of drinking and wastewaters after has gained enough knowledge on water.</li> <li>Students will learn basic concepts of water quality and quantity</li> <li>Students will be able to understand and use analytical method required for water quality control</li> <li>Students will learn and identify basic of chemical reactions water, and discuss on aquatic behaviors such as acid-bas solubility, precipitation and redox reactions.</li> <li>Participates in interdisciplinary studies by using the bas knowledge of the field and analytical thinking ability.</li> </ul>								
			CC	OURSE C	ONTENT					
Week	Theory				Practice/Laborate	ory				
1		pecies and wate								
2	Turkey and th	The water sources and environmental problems in Turkey and the world.				V				
3	Molecular structure of water and species									
4		determination o		nstant						
5	Investigation of seawater by chemically									
6		gaseous molecul	es in water							
7	Potable water									
8	Potable water		r opd tre -t	not of						
9	wastewaters	ostances in wate		ent of						
10	Hardness of v	vater and remov	ıng							



Related preparation for exam, giving some

Related preparation for exam, giving some

11

12

problem solves

15	Final Exam
	chemistry
14	Investigation of previous studies on water
13	Disenfection of water
	problem solves

## **Course Learning Resources**

- 1. Su Kimyası, H. Mutluay, A. Demirak, Beta basım yayım Dağıtım
- 2. Su Kirliliği ve Kontrolü, O. Uslu, A. Türkman, T.C Başbakanlık Çevre Genel Müdürlüğü Yayınları Eğitim Dizisi
- 3. Water Chemistry, V.I.Snoeyınk, D. Jenkıns. John Wiley
- 4. Su Teknolojisi, H. Yalçın, M. Gürü, Palme Yayıncılık

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

## **COURSE WORKLOAD TABLE**

Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Theory	14	2	28
Practice			
Forum/ Discussion Application			
Reading	- HI		
Internet Scanning, Library Study	14	2	28
Material Design, Application			
Report Preparation			
Presentation Preparation	14	2	28
Presentation		( )	
Final Exam	1	2	2
Preparation for the Final Exam	1	10	10
Other(s) (Preparation for Quizzes and Exams)	3	10	30
Total Workload			126
Total Workload / 25 (s)	126/25		
ECTS Credits of the Course	≌5		
Note: The workload of the course will b basis.	e determined by the instr	uctor on a per-course	

PROGRAM LEARNING	CUITPLITS CC	NTRIBILITION I EVELS	
PROGRAM LEARING	CUIFUIS CC		

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,				Х	



	and practical chemistry and shares them with the society.					
2	Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological developments, produces solutions against problems encountered in the laboratory.					Х
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.	Х				
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.				Х	
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	

