



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

Course Code	Course Title	Semester	Course Type (C/E)	T+A+L (Time/Week)	Credit	ECTS	Course Language
KİM726	Environmental Chemistry	2	E	2+0+0	2	4	Turkish

**COURSE INFORMATION**

<b>Course Catalog Description (Content)</b>	Definition of environment and ecology, Damage of natural and ecological equilibrium, The factors effected ecological equilibrium (Urban ecology, population increase,..), Environmental pollution and classification, Air pollutants and air pollution, The effect of air pollutants to ozone, Water pollutants and water pollution, The important parameters of determination of wastewater, Soil pollution, Noise pollution and prevention, The effect of other pollutants to the environment, To become industrialized and ecological relations, ÇED Reports.
<b>The Aim of the Course</b>	Environment pollution and the effect on human and other creatures, The problems that threaded our world and suggestions for solving this problem and improving of the importance of saving the environment for students
<b>Course Level</b>	Undergraduate
<b>Course Language</b>	Turkish
<b>Teaching method</b>	( ) Formal ( ) Online (X ) Mixed/Hybrid
<b>Teaching Staff of the Course</b>	Prof. Dr. İsmail AKDENİZ Prof. Dr. Orhan HAZER
<b>Prerequisite Course(s) of the Course</b>	-
<b>Learning Outcomes from the Course</b>	<ol style="list-style-type: none"><li>1. Getting enough information about environment with some parallel homework, participation of students regularly to lectures and sharing their knowledge with other students by the aid of seminars.</li><li>2. Having information about wastes and their contents.</li><li>3. Having knowledge about protect to the environment.</li><li>4. Performs experiments, collects data, interprets, evaluates results, defines problems parallel to current technological developments, and produces solutions against problems encountered in the laboratory.</li><li>5. Calculates and processes chemical information and data.</li></ol>

**COURSE CONTENT**

Week	Theory	Practice/Laboratory
1	Definition of environment and ecology, Investigation of environmental problems in our country and world	
2	Damage of natural and ecological equilibrium	
3	The factors effected ecological equilibrium (Urban ecology, population increase,..)	
4	Environmental pollution and classification	
5	Air pollutants and air pollution, The effect of air pollutants to ozone	
6	Water pollutants and water pollution, The important parameters of determination of wastewater	

7	Soil pollution	
8	Soil pollution	
9	Noise pollution and its prevention	
10	Light pollution and its prevention	
11	Effects of other types of pollution on the environment	
12	Effects of other types of pollution on the environment	
13	Industrialization and Ecological Relations, ÇED Reports	
14	Industrialization and Ecological Relations, ÇED Reports	
15	Final Exam	

### Course Learning Resources

1. Ekoloji ve Çevre Sorunları. Yılmaz Muslu
2. Çevre Sorunları. Emrullah Güney
3. Çevre Bilgisi. Recep Bozyiğit, Tufan Karaaslan
4. Dünyada ve Türkiye’de Çevre Sorunları. K. Başol
5. Ekoloji ve Çevre Bilimleri. F. Berkes, M. Kışlalıoğlu

### 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			
Internet Scanning, Library Study	14	2	28
Material Design, Application			
Report Preparation			
Presentation Preparation			
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			98
Total Workload / 25 (s)			98/25
ECTS Credits of the Course			≅4

Note: The workload of the course will be determined by the instructor on a per-course 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	