

Course Code

Course Title

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

Semes

Course

T+A+L

Credi ECTS

Course

Course	e Code	Course Title	ter	Type (C/E)	(Time/Week)	t	ECIS	Language
KİM	1707	History of Chemistry	1-2	E	2+0+0		4	Türkçe
			COURSE	INFORMAT	TON			
Course Catalog Description (Content)			Science in Ancient Civilizations: Science in Egypt and Mesopotamia, Science in Ancient Greece and Hellenistic Period; Science in Romans; Science in Medieval Europe and the Islamic World; Renaissance and Modern Science: Situation in Astronomy, Chemistry, Medicine and Biology, Situation in Physics and Mathematics, Galileo Galilei, Newton; The Age of Enlightenment: Astronomy, Mathematics and Physics in the 18th Century; Industrial Revolution and Science; Contemporary Science; The Einstein Revolution, Quantum Theory, and the Birth of Atomic Physics					in Romans; issance and edicine and ileo Galilei, ematics and nd Science;
	m of the	Course	 a) Explaining the roots of Chemistry (Manufacturing, Philosophy, Alchemy, Religion) and the relationship of chemical crafts in ancient civilizations (Egypt, Roman, Indian, Chinese, Arabian, Greek) with Alchemy and the development process of Chemistry from past to present. b) To explain in detail the science of chemistry and the development of the chemical industry from the ancient times to the present. 					
Course Level			Lessons will be given remotely via online education. The lecture notes of the lecturer and the books, articles and similar resources will be used as the source.					
Course	Langua	age	Bachelor degree					
Teachi	ng meth	od	Türkçe					
Teachi	ng Staff	of the Course	(X) Formal () Online () Mixed/Hybrid					
Course)	ourse(s) of the	Prof. Dr. Mustafa SAÇMACI					
		omes from the	-5074					
Course Course Catalog Description (Content)		g Description	 Be able to have information about the historical development of science. Understand the importance of chemistry in the history of science. Can learn the development of chemistry departments. Can learn about old chemical industry products. Can learn the development of the chemical industry and compare new products with old ones. 					of science.
			CC	OURSE CON				
Week	Theory			Pra	actice/Laboratory			
1	Chemical Science and historiography							
2	The roots of chemistry							
	3 BC Chemistry practice and writter		n sources					
	4 BC chemistry theories							
5	·	ison of Alchemy and Che	mistry					
6		cal history						
7	Lavoisie	r era						



8	Historical development of the periodic system
9	Development of chemistry departments
10	Former Chemical Industry products and productions
11	Development of the chemical industry
12	The art of experimentation and the technique of analysis
13	Chemistry teaching and industrial development in Turkey
14	Nobel Prize Winners in Chemistry
15	Final Exam

- Course Learning Resources

 1. Kimya Tarihi, Prof. Dr. Zeki Tez, Nobel Yayın Dağıtım, 2000.

 2. Genel Kimya, Raymond Chang, Kenneth A. Goldsby Palme Yayıncılık, 2014.

ASSESSMENT CRITERIA				
Work Activities During the Semester	Number	Contribution		
Homework	2	%40		
Practice	-	-		
Forum/ Discussion Application	-	-		
Short Exam (Quiz)	3	%60		
Ratio Of Semester Studies To Semester Success (%)		%50		
Ratio of Final to Success (%)		%50		
Total		%100		

Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Attending the Class	14	2	28
Self Study	1 /	3	3
Brainstorming	5	1	5
Reading	3	1	3
Homework	2	1	2
Quiz	3	1	3
Self Study for Quiz	3	1	3
Final Exam	1	1	1
Preparation for the Final Exam	1	3	3
Total Workload		·	51
Total Workload / 25 (s)	51/25		
ECTS Credits of the Course	2.04≌2		
Note: The workload of the course will be de	etermined by the instructor o	n a per-course basis.	

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.					Х
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.	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		

