YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES CHEMISTRY DEPARTMENT COURSE PLAN									
Cours	e Code	Course Title	Semes	Course	T+A+L	Credi	ECTS	Course	
			ter	Type (C/E)	(Time/Week)	t		Language	
ADS	L-039	History of Chemistry	1-2	S	2+0+0	2	2	Türkçe	
COURSE INFORMATION									
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						
The Aim 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	e Langua	age l	Bachelor degree						
Teaching method			Turkish						
Teaching Staff of the Course			(X) Formal () Online () Mixed/Hybrid						
Prerequisite Course(s) of the Course		ourse(s) of the	Prof. Dr. Mustafa SAÇMACI						
Learning Outcomes from the		omes from the	504						
Course Course Catalog Description (Content)		 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. 							
			CC	OURSE CON	ITENT				
Week	Theory			Pra	actice/Laboratory	,			
1	Chemica	al Science and historiograp	ohy						
2	The root	ts of chemistry							
3	BC Che	mistry practice and written	sources						
4	BC cher	nistry theories							
5	Compar	ison of Alchemy and Chen	nistry						
6	Alchemi	cal history							
7	Lavoisie	er 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

COURSE WORKLOAD TABLE								
Activity	/	Total Weeks Duration (Weekly Hours)		eekly	Total Workload			
Attendi	ng the Class	14	2		28			
Self Stu	Jdy	1	3		3			
Brainst	orming	5	1		5			
Readin	g	3	1		3			
Homew	vork	2	1		2			
Quiz		3	1		3			
Self Study for Quiz 3 1				3				
Final Exam11				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 determined by the instructor on a per-course basis.								
PROGRAM LEARNING OUTPUTS CONTRIBUTION LEVELS								
No	Program Learning Outputs		1	2	3	4	5	
1	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	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		