

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

Course Code	-	Course Title	Semes ter	Course Type (C/E)	T+A+L (Time/Week)	Credi t	ECTS	Course Language		
KİM72	8 F	ood chemistry and technologies	Spring	E	2+0+0	2	4	English		
	COURSE INFORMATION									
Course Catalog Description (Content)			1- Nutrient elements 2- Carbohydrates 3- Oils and oil-like natural substances 4- Proteins 5- Enzymes 6- Vitamins 7- Mineral substances 8- Midterm Exam 9- Water and Its Properties 10- Alcohols and Alkaloids 11- Color and Flavorings 12- Organic Acids in Foods 13- Food additives 14- Storage methods in foods							
The Aim of the Course			The aim of this course is to inform students about important food groups, their chemical structure, physical properties, preparation and preservation.							
Course	e Level		Degree							
Course	Langua	ge	English							
Teachi	ng meth	od	(X) Formal	() Online	e () Mixed/Hyb	rid				
Teaching Staff of the Course			Prof. Dr. Mustafa SAÇMACI Prof. Dr. Ş.Hakan ÜNGÖREN Prof. Dr. İrfan KOCA Dr. Öğr. Üyesi İbrahim Evren KIBRIZ							
		ourse(s) of the								
Course		omes from the	Learns functional groups in foods							
Learning Outcomes from the Course			Cida katkı maddeleri ile ilgili bilgi sahibi olur							
			3. Learns the codes in food additives.							
			4. Learns alkaloids in food additives.							
			5. Reinforce knowledge of organic chemistry							
			COURSE CONTENT							
Week	Theory			Pra	actice/Laboratory					
1	nutritiona	al elements								
2	Carbohydrates				V					
3	Oils and	d oil-like natural substa	nces							
4	Proteins									
5	Enzymes									
6	Vitamins									
7	Mineral substances									
8	Midterm Exam									
9	Water and Its Properties									
10	Alcohols and Alkaloids									
11	Color and Flavorings									
12	Organic	Acids in Foods								



13	Food additives		
14	Storage methods in foods		
15 Final Exam			

Course Learning Resources

- 1. Celal Tüzün, Organic Chemistry
- 2. Fessenden, Organic Chemistry
- 3. Solomon, Organic Chemistry

ECTS Credits of the Course

ASSESSMENT CRITERIA					
Work Activities During the Semester	Number	Contribution			
Homework	1	%30			
Practice					
Forum/ Discussion Application					
Short Exam (Quiz)	2	%35			
Ratio Of Semester Studies To Semester Success (%)		%40			
Detic of Final to Cusassa (0/)		0/.00			

Ratio of Final to Success (%)

Total

COURSE WORKLOAD TABLE

Activity

Total Weeks

Duration (Weekly Hours)

Midterm Examination

1
2
2
2
Final Examination

1
2
2

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Final Examination	1	2	2
Attending Lectures	14	3	42
Field Work	1	2	2
Self Study	7	3	21
Individual Study for Mid term Examination	2	9	18
Individual Study for Final Examination	2	9	18

Total Workload / 25 (s)

105/25 105/25≌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.			Х		
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.				Х
6	Can conduct research in the light of scientific data on any subject in the field of chemistry.			Х	
7	Writes, presents, discusses scientific material, and presents it orally to a knowledgeable audience.		Х		
8	Brings a chemical approach to the solution of environmental problems, makes environmental analyzes and reports.	Х			
9	Knows a foreign language at a level to read and understand the basic terms and processes of the chemist profession.		Х		
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.		Х		
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.				Х
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.	Х			



