YOZGAT BOZOK UNIVERSITY FACULTY OF ARTS AND SCIENCES DEPARTMENT OF CHEMISTRY CURRICULUM

Course Code	Course Name	Semester	Course Type (Z/S)	T+U+L (Hrs/Week)	Loan	ECTS	Language of Instruction
KIM361	Organic Chemistry II	Spring	Z	4+0+0	4	6	Turkish

COURSE INFORMATION

Course Catalogue Description (Content)	Increases their knowledge of the fundamentals of organic chemistry. Learns carbonic compounds and the physical and chemical properties of aromatic compounds. Comprehend the importance of stereochemistry for organic compounds.
Course Objectives	To teach the basics of organic chemistry, how organic reactions proceed and to give information about their mechanisms.
Course Level	License
Language of Instruction	Turkish
Teaching Method	(X) Formal ( ) Remote ( ) Hybrid/Hybrid
Course Instructors	Prof. Dr. Mustafa SAÇMACI Prof. Dr. Ş.Hakan ÜNGÖREN Prof. Dr. İrfan KOCA Assist. Prof. İbrahim Evren KIBRIZ
Prerequisite Course(s)	-
Learning Outcomes	-Allows to increase basic organic chemistry knowledge. -Learns the structures and reactions of aldehydes and ketones. -Comprehend the importance of other carbonyl compounds (such as carboxylic acid). -Learns about aromatic compounds. -Comprehend the importance of stereochemistry in organic compounds.

COURSE CONTENT

Week	Theory	Application/Laboratory
1	Introduction to carbonyl compounds	
2	Chemical and physical properties of aldehydes and ketones	
3	Nomenclature of aldehydes and ketones	
4	Chemical reactions of aldehydes and ketones	
5	Addition and other reactions of aldehydes and ketones	
6	Introduction to carboxylic acids and their properties	
7	Methods of obtaining carboxylic acids	
8	Special reactions of carboxylic acids	
9	Introduction and nomenclature of amine compounds	

10	Methods of obtaining amine compounds	
11	Chemical reactions of amine compounds	
12	Introduction to multifunctional organic compounds	
13	Aromatic compounds	
14	Stereochemistry	
15	Final Exam	

Learning Resources

1. Celal Tüzün, Organic Chemistry
2. Fessenden, Organic Chemistry
3. Solomon, Organic Chemistry
4.

EVALUATION CRITERIA

In-Term Study Activities	**Number**	**Contribution**
Midterm Exam	1	%50
Application		
Forum/Discussion App		
Quiz	1	%50
Semester Success Rate of Semester Studies (%)		%40
Final Success Rate (%)	**1**	%60
Sum		%100

COURSE WORKLOAD TABLE

Activity	**Total Number of Weeks**	**Duration (Weekly Time)**	**Total Workload**
Theory	14	4	56
Application			
Forum/Discussion App			
Reading	4	8	32
Internet Browsing, Library Work	14	2	28
Material Design, Application			
Report Preparation			
Preparing a Presentation			
Presentation			
Final Exam	1	2	2
Final Exam Preparation	4	8	32
Other (Specify: ...……)			
Total Workload			
Total Workload / 25 (h)			15/25
ECTS Credit of the Course			$150/25 \cong 6$
Note: The workload table of the course will be determined by the instructor on a course-specific basis.			

PROGRAM LEARNING OUTCOMES CONTRIBUTION LEVELS						
No	**Program Learning Outcomes**	**1**	**2**	**3**	**4**	**5**
1	Have extensive knowledge about the basic chemical properties of matter and use this knowledge in daily life, in the field of industrial and practical chemistry and share them with the society.					**X**
2	Conducts experiments, collects data, interprets them, evaluates the results, identifies problems in parallel with current technological developments, in the laboratory It produces solutions to the problems it encounters.	**X**				
3	Performs calculations and processes chemical information and data.			**X**		
4	Apply knowledge and understanding of chemistry to the solution of qualitative and quantitative problems of an unusual nature.				**X**	
5	Define and comprehend chemical concepts and theories in Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Biochemistry.					**X**
6	Can conduct research in the field of chemistry in the light of scientific data on any subject.				**X**	
7	Writes, presents, discusses, and orally presents scientific material to an informed audience.			**X**		
8	Can bring a chemical approach to the solution of environmental problems, make environmental analyzes and report.		**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, he acquires knowledge in different branches of science that he feels close to.		**X**			
13	Conducts a study independently, does group work and gains awareness of taking responsibility.					**X**
14	Develop a positive attitude towards lifelong learning and continuously renew their professional knowledge and skills.			**X**		
15	Universality of social rights, social justice, quality culture and cultural Have sufficient awareness of the protection of values, environmental protection, occupational health and safety.		**X**			