

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

2006									
Course Code	Course Title	Semes ter	Course Type (C/E)	T+A+L (Time/Week)	Credi t	ECTS	Course Language		
KİM352	Organic Chemistry Laboratory -I	Autumn	С	0+4+4	4	4	English		
COURSE INFORMATION									
Course Catalog Description (Content)		To teach Organic Chemistry laboratory techniques, to make students comprehend that preliminary preparation is required for synthesis, to be able to synthesize, to purify the synthesized compounds and to control their purity, to use the theoretical knowledge learned in the lesson to interpret the data collected from the experiment, to teach to write a clear, complete and understandable laboratory report.							
The Aim of the Course		To teach the basics of Organic Chemistry and to give information about how organic reactions proceed.							
Course Level		Lisans							
Course Language		English							
Teaching	method	(X) Formal () Online () Mixed/Hybrid							
Teaching Staff of the Course		Prof. Dr. Mustafa SAÇMACI Prof. Dr. Ş.Hakan ÜNGÖREN Prof. Dr. İrfan KOCA Asst. Prof. İbrahim Evren KIBRIZ							
Prerequisite Course(s) of the Course		-							
Learning	Outcomes from the	-Explains the dangers of the chemicals used.							
Course		-Learns to find the properties of the compounds from the handbook and to prepare the preparation paper required for the experiment.							
		-Learns the determination of glass materials according to the compound to be synthesized.							
		-Learns hear	ting and coo	ling techniques.					
		- Learns to distillation ar up their med	o apply tec nd reflux, wh hanisms.	hniques such a ich are part of sy	as simpl nthesis p	e distilla rocedure	ition, steam s, and to set		
		CC	URSE CON	TENT					

Week	Theory	Practice/Laboratory
1		Requirement to use glasses, clothing, gloves, use of chemical and glass materials, labeling and storage of laboratory accidents and toxicity chemicals, disposal of waste and hazardous chemicals, use of handbook, and report preparation in relation to Laboratory Safety.
2		Regarding basic processes, techniques for filtration, heating and cooling methods, desiccant and drying methods, melting and boiling point determination
3		Regarding the basic processes, sublimation, extraction process and its types, crystallization process.
4		Regarding basic processes, distillation methods, thin layer chromatography (TLC) from chromatography types.

5	Oxidation Reaction Experiment
6	Reduction Reaction Experiment
7	Esterification Reaction Experiment
8	Hydrolysis Experiment
9	Alkylation Experiment
10	Acylation Experiment
11	Halogenation Experiment
12	Sulfoation Experiment
13	Coupling Reaction Experiment
14	Delivery of substances and preparation
15	Final Exam

Course Learning Resources

Celal Tüzün, Organic Chemistry
Fessenden, Organic Chemistry
Solomon, Organic Chemistry
Denel Organic Chemistry Ender Erdik, Ankara University

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
Ratio of Final to Success (%)		%60
Total		%100

COURSE WORKLOAD TABLE					
Activity	Total Weeks	Duration (Weekly Hours)	Total Workload		
Theory					
Practice	14	4	56		
Forum/ Discussion Application					
Reading	4	4	16		
Internet Scanning, Library Study					
Material Design, Application					
Report Preparation	14	1	14		
Presentation Preparation					
Presentation					
Final Exam	1	2	2		
Preparation for the Final Exam	4	3	12		
Other(s) (Specify:)					
Total Workload					

Total Workload / 25 (s) ECTS Credits of the Course			100/25 100/25≌4			
						Note: T
No	PROGRAM LEARNING OUTPUTS CONTRIBUTIO			3	1	5
		•		3	4	J
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			