

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

Course Level Course Lang Teaching me Teaching Sta Prerequisite Course Learning Out Course Week Theo 1 Defin 2 Class 3 Textil 4 Applie surface 5 Prope textile 6 Smar applie 7 Heat- applie 8 Shap 9 Pieze 10 Chroi	el guage ethod taff of the Course e Course(s) of the	Akıllı polime polimerlerin kazandırdıkl	tekstil yüz arı özellikler akıllıların t	polimerlerin yü zeylerinde alanlı	arını ve	•			
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1 Defin 2 Class 3 Textil 4 Applications of the surface of the surf		CO	OURSE CON	ITENT					
2 Class 3 Textil 4 Applie surface 5 Proper textile 6 Smarr applie 7 Heat-applie 8 Shap 9 Pieze 10 Chron	ory		Pra	actice/Laboratory					
3 Textil 4 Applie surface 5 Prope textile 6 Smar applie 7 Heatapplie 8 Shap 9 Piezo 10 Chroi	Definition and plan of smart polymers								
4 Applie surface surfa	sification and application a	reas of smart po	lymers						
5 Proper textile 6 Smar applic 7 Heat-applic 8 Shap 9 Piezo 10 Chron	ile use of active polymers, q	gels and elaston	ners						
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applic 7 Heat- applic 8 Shap 9 Piezo 10 Chror	Properties of smart biopolymers, application and use in textiles				V				
applic 8 Shap 9 Piezc 10 Chror	Smart medical polymers, sensors, and textile applications Heat-storing thermal insulation polymers, textile								
9 Piezo	applications								
10 Chro	Shape memory polymers, textile applications								
	Piezoelectric polymers, textile applications								
11 Smar	Chromic polymers, solar textiles								
	Smart polymers, protective textile applications								
		Smart polymers, electronic textile applications							
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applic	art polymers, electronic texti art polymers, packaging text	Smart polymers, architectural and construction textile applications							
15	art polymers, electronic texti art polymers, packaging text art polymers, architectural a		Final Exan	n					



- 1. M. Fringe, Polymer Technology, Gazi Bookstore, 2005
- 2. M. Fringe, Polymer Chemistry, Gazi Publishing House, 2004
- 3. Smart polymers and their applications, Maria Rosa Aguilar, J.S.Roman, Elsevier 2014 2 Smart textiles, Xiaoming Tao, Springer reference 2015 3 Jinlian Hu, "Shape Memory Polymers and Textiles", Woodhead Publishing 2007 4 G.Pohl, "Textiles, Polymers and Composites for Buildings", Woodhead Publishing 2010

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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 (%)	1	%60
Total		%100

COURSE WORKLOAD TABLE

_	CONCE HOMMEOND IN		
Activity	Total Weeks	Duration (Weekly Hours)	Total Workload
Theory	14	2	28
Practice			
Forum/ Discussion Application			
Reading	14	3	42
Internet Scanning, Library Study	14	2	28
Material Design, Application			
Report Preparation		4	
Presentation Preparation		/)	
Presentation			
Final Exam	1	2	2
Preparation for the Final Exam	4	6	24
Other(s) (Specify:	071		
Total Workload	U X		
Total Workload / 25 (s)	()		124/25
ECTS Credits of the Course			124/25≌5

Note: The workload of the course will be determined by the instructor on a per-course basis.

PROGRAM LEARNING OUTPUTS CONTRIBUTION	JN LEV	ELO
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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.		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.				х	
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.					х



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.	х			
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		



