POLYMER TECHNOLOGY											
1	Course Title:	POLYME	ER TECHNOLOGY								
2	Course Code:	KIM4036	j								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	le								
5	Year of Study:	4									
6	Semester:	8									
7	ECTS Credits Allocated:	5.00	0								
8	Theoretical (hour/week):	3.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	None									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	ace								
14	Course Coordinator:	Prof. Dr.	ALİ KARA								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	nbesirli@ 0 224 29	eluludag.edu.tr 41 721								
17	Website:										
18	Objective of the Course:	To give a systems.	an information about industrial production of polymeric								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Learning polymers, applications of polymers and processing of polymers								
		2	Learning the methods of polymerization								
		3	Learning thermal and mechanical properties of polymer and how to determine the properties								
		4	Learning industrial polymers and their qualifications								
		5									
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
		Co	urse Content:								
Week	Theoretical		Practice								
1	Polymer Chemistry and General Info Monomer, polymer, Applications of p Processing of polymers	rmation, olymers,									
2	Polymer Synthesis, Step Polymeriza Addition polymerization, Ionic polyme	tion, erization									
3	Polymerization Methods, Bulk polym solution polymerization	erization,									

4	Susp Polv	oensi meriz	ion Po zation	olymer	izatio facial	n, Emu Polvm	ılsion erizati	on										
5	Ther Tem temp	mal pera	Prope ture, ure	rties c Therm	of Poly al deg	/mers, gradatio	Glass		Τ									
6	Thermal Properties of Polymers, Thermal transitions and the properties of polymers, Factors affecting the glass temperature																	
7	<ul> <li>Thermal Characterization of Polymers,</li> <li>Differential Thermal Analysis (DTA),</li> <li>Differential Scanning Thermal Analysis (DSC)</li> </ul>																	
8 Thermogravimetric Analysis (TGA)																		
9	9 Repetition of previous lessons and MIDTERM																	
10	Mechanical Properties of Polymers, Deformation, Stress-strain, Elastic Deformation, Viscos deformation, Stress- strain curves																	
11	The Envi polyr	The Effect of environment to polymers, Environment Effect, Liquid Effect, Swelling of polymers and solubility																
12	Ther therr	mop nopla	lastic astics	techno , Proc	ologie essinę	s, Spe g of the	cific ermopl	astics										
13	Ther polyr	mos mers	et Teo , proc	chnolo essing	gies, g of th	Specifi ermos	c The et poly	rmose /mers	t									
14	14 Elastomer Technologies and Polymer Composites, Vulkanization, specific elastomer																	
Activites								Number Duration (hou				hour)	) Total Work Load (hour)					
Theore	Theore Materials:								2	2 M. Saçak, Polimer Teknolojisi, Gazi Kitaberio						28i0800	5	
Practicals/Labs								3	0 0.00				Yavine	0.00				
Self study and preperation								5	5 American Chemical Society, Division					1 OF POLYMER				
Homeworks									3 10.00				30.00					
Pr23ctsAssesment									0			0.00			0.00			
Field S	tudies	S					-			0 0.00				0.00				
Midtern	Midlerm exams								4	40.00					15.00			
Others									0			0.00			0.00			
Final E	Exams O							0	<u>odo</u> 20.				3.00 20.00					
Total W	Total Work Load															149.00		
<del>Total w</del>	Total work load/ 30 hr 2								10	0.00						4.97		
ECTS (	ECTS Credit of the Course															5.00		
Succes	s Gra	ade				-												
Contribution of Final Exam to Success Grade								60	60.00									
Total								10	100.00									
Measurement and Evaluation Techniques Used in the Course																		
24 ECTS / WORK LOAD TABLE																		
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	(	)	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	
			-															

ÖK2	0	4	4	0	4	0	0	0	0	0	3	0	0	0	0	0
ÖK3	0	4	0	0	4	0	0	0	0	0	4	0	0	0	0	0
ÖK4	0	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ntrib 1 very low ion vel:		2 low		3 Medium		4 High		5 Very High							