	POL	YMER	CHEMISTRY						
1	Course Title:	POLYME	ER CHEMISTRY						
2	Course Code:	KIM4037							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	5.00							
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.	NECATI BEŞİRLİ						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	nbesirli@ 0 224 29	2uludag.edu.tr 41 721						
17	Website:								
18	Objective of the Course:	understa	ication of the basic principles about polymers, to nd the synthesis and characterization methods of the and to learn the effect of the structure of the polymers on rties.						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Recognizing the polymers and becomes competent on the basic subjects about polymer chemistry						
		2	Knowing the methods of polymerization and characterization						
		3	Comprehending the kinetics of the polymerization reactions						
		4	Knowing the structure-property relation in polymers						
		5							
		6							
		7							
		8							
		9							
		10							
21	21 Course Content:								
Course Content:									
	Theoretical	homistry	Practice						
1	General Issues about the Polymer C Monomer, Polymer, Polymer Chains Branched and Cross-linked Polymer Polymer Synthesis, Polymer Stereod The Crystal Structure of the Polymer	, Linear, s, chemistry,							

2	Step P Polym				Kinetic	s of th	e Ste	p									
3		ddition Polymerization , The Kinetics of the ddition polymerizations															
4		mpirical and Theoratical reates of blimerization, Kinetic Chain Length															
5	Degre weight		olymeri	zation	and mo	olecula	ar										
6	Gel Ef	Gel Effect in Addition Reactions															
7	 7 Depolymerization and Kinetics of polymerization reactions 																
8	Chain Chain				and th	e Kine	etics o	f									
9	Repeti	tion o	f previo	ous les	sons ar	nd MIE	TER	M									
10	Ionic p Cation				nic poly	ymeriz	ation,										
11	The Ki	netics	of ion	c polyr	nerizati	ion rea	action	s									
12					s and t actions		etics										
13	of the copolymerization reactionsCharacterization of the polymers: Moleculer weight in polymers and the methods of determining the molecular weight distribution, quantitative properties, end group analysis																
14	Light S Metho																
Activites							1	Number				Duration (hour)			Total Work Load (hour)		
Theore	tical							3,	Fred V	V. Billn	neyer, 1	extboo	extbook of Polymer Science,1984				
Practic	als/Lab	3														0.00	
Self stu	dy and	prepe	oration					ŀ	14					56.00			
Homew	vorks	nont_						3	3				10.00			30.00	
Project	S		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			R		- •	0				0.00			0.00	
Field S	tudies							(0					0.00			
Qlidz err	n exam	S				0	I	0.0	0.00					15.00			
Others								(0						0.00		
Final E	xams					1		60	60100					20.00			
Total V	Vork Lo	ad												149.00			
-	Cotatribotio to a ft730mh (Year) Learning Activities to								40.00						4.97		
	Credit c														5.00		
	oution of	Fina	Exam	to Suc	cess G	irade		_	.00								
	rement	and E	valuati	on Tec	hnique	s Use	d in th		0.00								
Course	ECTS	. / \\/															
		,								<u></u>		0 = 0					
25			CO	NTRIE	BUTIC	ON OI						S TO I	PROC	GRAM	ME		
	PG	21 PG	2 PQ	3 PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	0	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	
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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
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low		3	Medi	um	4 High			5 Very High				