POLYMER 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	0 uludag.edu.tr 0 41 721							
17	Website:									
18	Objective of the Course:	The appl understa polymers its prope	lication of the basic principles about polymers, to and the synthesis and characterization methods of the s and to learn the effect of the structure of the polymers on erties.							
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	Course Content:									
14/	The second second	Course Content:								
Week			Practice							
1	Monomer, Polymer, Polymer C Monomer, Polymer, Polymer Chains Branched and Cross-linked Polymer Polymer Synthesis, Polymer Stereoo The Crystal Structure of the Polymer	, Linear, s, chemistry, rs								

2	Step F Polym	Poly eriz	/meriz zation	zation, Reac	The l tions	Kinetic	s of th	e Ster									
3	Additi Additi	dition Polymerization , The Kinetics of the dition polymerizations															
4	Empir polime	npirical and Theoratical reates of limerization, Kinetic Chain Length															
5	Degre weigh	gree of polymerization and molecular															
6	Gel Et	el Effect in Addition Reactions															
7	Depol polym	Depolymerization and Kinetics of polymerization reactions															
8	Chain Chain	Chain Transfer Reactions and the Kinetics of Chain Transfer Reactions															
9	Repet	itio	n of p	reviou	s less	ons ar	d MIE	TER	л								
10	Ionic p Catior	ooly nic p	vmeriz polym	ation, erizati	Anior ion	nic poly	/meriz	ation,									
11	The K	ine	tics of	f ionic	polyn	nerizati	on rea	actions	\$								
12	Copol of the	polymerization reactions and the kinetics the copolymerization reactions															
13	Chara weigh deterr quant	haracterization of the polymers: Moleculer eight in polymers and the methods of etermining the molecular weight distribution, uantitative properties, end group analysis															
14	Light S Metho	ht Scattering Method, Ultracentrifuge ethod, Viscosity Method, Gel Permeation															
Activites								Number			Dura	Duration (hour)			Total Work Load (hour)		
Theore	tical								3	Fred V	V. Billn	neyer, I	extego	k of Po	olymer	Science,	1984
Practicals/Labs								4	<u>Anien</u> 0	can Cn	emical	0.00		0.00			
Self stu	dy and	l pr	epera	tion						11					56.00		
Homew	vorks	<u>mo</u>	nt							3					30.00		
Project	S	10	7011	VIIIEO			R		. <b></b> .	0					0.00		
Field S	tudies									0					0.00		
Quidzerr	n exan	าร					0		0.	0.00				)		15.00	
Others	Others									0			0.00			0.00	
Final E	Final Exams 1								6	60100					20.00		
Total V	Vork Lo	ad														149.00	
Cotatribotio to a fl/Tathh (Year) Learning Activities to								40	0.00						4.97		
ECTS	Credit	of th	ne Co	urse												5.00	
Contrib	oution c	t Fi	nal E	xam to	Suco	cess G	rade		60	0.00							
Total Measu	rement	an	d Eva	luatio	n Tec	hnique	s Use	d in th	10 e	0.00							
Course		- /															
		<b>)</b> /	WU								<u></u>						
25				CON	TRIE	BUTIO	N OI	E LE/	ARN QUA	LIFIC		NS	STO	PROC	GRAM	ME	
	P	21	PQ2	PQ3	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	4	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low			3 Medium			4 High			5 Very High			