EL	ASTOMERIC MATERIA	ALS A	AND INDUSTRIAL APPLICATIONS								
1	Course Title:	ELASTOMERIC MATERIALS AND INDUSTRIAL APPLICATION									
2	Course Code:	POL6051									
3	Type of Course:	Optional									
4	Level of Course:	Third Cy	cle								
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	6.00									
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.	MURAT YAZICI								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Prof. Dr.	Murat Yazıcı								
	Coordinator:	myazici@	uludag.edu.tr								
17	Website:										
18	Objective of the Course:	Understanding of elastomer technology and industrial applications.									
19	Contribution of the Course to Professional Development:	The production technology of elastomer materials is known. In addition, information about the industrial applications of elastomers is obtained.									
20	Learning Outcomes:										
		1	General information about rubber is learned.								
		2	To have information about the production of rubber products.								
		3	To have information about rubber tests.								
		4	The information about the components in the rubber formula is learned.								
		5	Learn about vulcanization technology.								
		6	Know about commercial elastomer products.								
		7									
		8									
		9									
		10									
21	Course Content:										
١٨/- ١	Theoretical	Со	urse Content:								
	Theoretical		Practice								
1	Solid-State Properties of Polymers.	d Hooss									
2	Description of Elastomer and General Properties.	usage									
3	Commercial Elastomer Types.										
4	Preparation of Elastomers Mixtures.										
5	Vulcanization of Elastomers.										

6			Elastom	ners 1													
7	Midter	n															
8	Rheolo	gy of E	Elastom	ers 2													
9	Proces	echnolo	ogies	of Elas	tomer	s 1											
10	Proces	echnolo	ogies	of Elas	tomer	s 2											
11	Viscoelasticity																
12	Viscoe	lasticit	y Prope	erties	of Elas	tomer	s										
13	Tests Methods of Elastomer Materials 1																
14	Tests I	ls of Ela	astom	er Mat	erials	2											
22	Textbooks, References and/or Other Materials:								1. Rubber Technologist's Handbook, J. R. White, Rapra Technology, 2001.								
									2. Polymer Engineering Science and Viscoelasticity, H. F. Brinson; L. Cate Brinson, Springer Science+Business Media, 2015								
								3. Rubber Technology, Maurice Morton, Van Nostrand Reinhold Company, 1987									
23	Assesr	nent															
TERM L	EARNII	NG ACT	IVITIES	3		N	IUMBE	WE	IGHT								
	Midtorn Evan 1							Number Duration (hour) Total Work									
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Others	·)				0.00 0.00				
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	work load/ 30 hr												6.00				
	S Credit of the Course									6.00							
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25			CON	IKIE	SUTIC)N O				ATIO		5 10 1	PROC	GRAM	ME		
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ÖK2	3	3	4	4	5	3	4	4	3	3	3	4	3	4	4	4	
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ÖK4

ÖK5	2	2	4	4	4	4	5	5	4	4	4	4	4	2	3	3
ÖK6 2 3 1 1 3 3 4 4 3 3 1 3 3 3 3 3 3 3 3 3 3																
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