	NATURAL FIBERS									
1	Course Title: NATURAL FIBERS									
2	Course Code:	TEK1007								
3	Type of Course:	Compulsory								
4	Level of Course:	First Cycle								
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	1.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. ESRA KARACA								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	U. Ü. Mühendislik Fakültesi Tekstil Mühendisliği Bölümü Görükle 16059 BURSA ekaraca@uludag.edu.tr 0 224 294 20 52								
17	Website:									
18	Objective of the Course:	<ol> <li>To train students in understanding of general properties of textiles fibers.</li> <li>To train the students in understanding the relation between polymers and fibers.</li> <li>To provide knowledge on structure and properties of natural textile polymers.</li> <li>To provide knowledge on history, growth and properties of important natural fibers.</li> </ol>								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To understand the relation between polymers and fibers.							
		2	To compare important natural fibers and their properties.							
		3	To list the usage fields of natural fibers.							
		4	To analyse the natural textile fibers.							
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:		ourse Content:							

Week	Theoretical		Practice								
1	Definition and classification of textile	fibers	T	To examine the examples of natural and chemical fibers							
2	Physical and chemical properties of to fibers	extile	T	To examine the examples of natural and chemical fibers  To calculate polymerization degree, molecular weight of							
3	General polymer knowledge			To calculate polymerization degree, molecular weight of polymers and count of fibers  To make microscopically analysis and burn tests of cotton							
4	Structure and properties of cellulose			To make microscopically analysis and burn tests of cotton, flax, wool and silk fibers							
5	History, growth and classification of c fibers		To demonstrate cotton plant and different type cotton fibers								
6	Physical/chemical properties and usa of cotton fibers	_	To demonstrate cotton plant and different type cotton fibers								
7	History, growth and classification of fl	ax fibers	T	To demonstrate different type flax fibers							
8	Physical/chemical properties and usa of flax fibers	ige fields	To demonstrate different type flax fibers								
9	Midterm exam + Repeating of course	S									
10	Structure and properties of protein			o make chemical analy pers	rsis of cotton, flax, v	wool and silk					
11	History, growth and classification of w fibers	vool	T	o demonstrate differen	t type wool fibers						
12	Physical/chemical properties and usa of wool fibers	T	o demonstrate differen	t type wool fibers							
13	History, growth and classification of s	ilk fibers	Ť	o demonstrate differen	t type cocoon and s	silk fibers					
14	Physical/chemical properties and usa	ige fields	T	o demonstrate differen	t type cocoon and s	silk fibers					
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	tical		2. T	$W_4$ E. Morton & J.W.S. extile Fibres. The Text	년�arle, "Physical F	repeties of					
Practica	als/Labs			14	1.00	14.00					
Self stu	dy and preperation		3. P	J.G. Соок, "Handbook ublishing Co. Ltd. Engl	3100 extile Fibers , and 1959	Ag. 166w					
Homew	vorks			0	0.00	0.00					
Project	6		4. Y	iyi. Lewin, Fiber Chen ork. 1985.	0.00 , Marcel Dekk	er inc., New 0.00					
Field S	tudies			0	0.00	0.00					
Midtern	n exams		Э.	<del>п. Dayloglu, п. Karak</del> 1	8.00	8.00					
Others				0	0.00	0.00					
FERME	ZEARNING ACTIVITIES	NUMBE	W	ÉIGHT	10.00	10.00					
	/ork Load					90.00					
Total w	ork load/ 30 hr	-	4   4	2.00		3.00					
	Credit of the Course worк-project	U	U.	00		3.00					
Final Exam 1				60.00							
Total 2				100.00							
Contribution of Term (Year) Learning Activities to Success Grade				40.00							
Contrib	ution of Final Exam to Success Grade	)	60.00								
Total			100.00								
Measur Course	rement and Evaluation Techniques Us	ed in the									
24	ECTS / WORK LOAD TABLE										

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	0	3	0	0	0	0	0	0	3	0	0	0	2	1	5
ÖK2	0	0	4	0	0	0	0	0	0	3	0	0	0	2	1	5
ÖK3	3	0	3	0	0	0	0	0	0	0	0	0	0	3	0	5
ÖK4	3	0	0	0	4	0	4	0	0	0	0	0	0	0	0	5
			LO: L	.earr	ning (	Objec	ctive	s P	Q: P	rogra	ım Qu	alifica	tions	<u> </u>		
Contrib 1 very low ution Level:			2	2 low		3	3 Medium		4 High			5 Very High				