	ACOUSTIC TEXTILES									
1	Course Title:	ACOUS	TIC TEXTILES							
2	Course Code:	TEK505	4							
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	2								
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 t	face							
14	Course Coordinator:	Doç. Dr.	FATİH SÜVARİ							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	suvari@	uludag.edu.tr							
17	Website:									
18	Objective of the Course:	Analysis of the interaction of the sound wave with the textile material and the design of the textile material according to the expectations.								
19	Contribution of the Course to Professional Development:	To gain a textile material design approach in accordance with acoustic expectations.								
20	Learning Outcomes:									
		1	Being able to have knowledge on fundamentals of acoustics.							
		2	To gain the ability to analyze material-sound wave interaction.							
		3	To gain a textile material design approach in accordance with acoustic expectations.							
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		9								
		10								
21	Course Content:									
\\\ \ - \ \ \	The anatical	Co	ourse Content:							
	Theoretical Acoustic textiles: an introduction		Practice							
2	Basics of acoustics									
3	Basics of acoustics									
4	Wave equation of the sound									
5	Standing waves									
	Otaliuling waves									

6	Sound absorption coefficient															
	Materials used for acoustic textiles															
8 9	Sound absorption of fibrous materials															
9 5	Sound absorption of fibrous materials															
10 A	Applications of acoustic textiles															
	Nonwoven manufacturing methods for acoustic textiles															
	Nonwoven manufacturing methods for acoustic textiles															
13	Design approach for acoustic textiles															
14	Design approach for acoustic textiles															
	Textbooks, References and/or Other Materials:						tex 2. ac 3. Ac 53 4. mi	 Padhye, Rajiv, and Rajkishore Nayak, eds. Acoustic textiles. Singapore: Springer, 2016. Barron, Randall F. Industrial noise control and acoustics. CRC Press, 2002. Parikshit Paul, Rajesh Mishra & B. K. Behera (2021) Acoustic behaviour of textile structures, Textile Progress, 53:1, 1-64. Demirkale, Sevtap Yılmaz. Çevre ve yapı akustiği: mimarlar ve mühendisler için el kitabı. Birsen yayınevi, 2007. 								
23	Assesme	ent														
Activites NUMBE							Number			Dura	Duration (hour)			Total Work Load (hour)		
Filonosexical-project 0						0.0	0.00			3.00			42.00			
Practical	acticals/Labs							(0			0.00			0.00	
Set astud	etastudy and preperation 1						10	100400			9.50			133.00		
	meworks							(0			0.00			0.00	
Projects	ess Grade ets							(0						0.00	
Field Stu	Studies							(0						0.00	
Midale rm	rm exams						10	1000.00						0.00		
Others							(0			0.00			0.00		
FAUISE _X	e _{xams}							1			2.00			2.00		
Total Wo	Work Load														177.00	
	work load/ 30 hr													5.90		
ECTS C	redit of t	he Co	urse												6.00	
25	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	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
			LO: L	.earr	ing C	bjec	tive	s F	PQ: P	rogra	m Qu	alifica	tions	•		

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					