CURRENT TECHNICAL FABRIC APPLICATIONS										
1	Course Title:	CURRENT TECHNICAL FABRIC APPLICATIONS								
2	Course Code:	TEK6035								
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 face								
14	Course Coordinator:	Prof. Dr.	ERHAN KENAN ÇEVEN							
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:	e-mail: rceven@uludag.edu.tr Tel: 0-224-294 2062 Bursa Uludağ Üniversitesi Mühendislik Fakültesi Tekstil Mühendisliği Bölümü 16059-Görükle-Bursa								
17	Website:									
18	Objective of the Course:	In this course, it is aimed that the student will have information about the structural properties of technical fibers, yarns and fabrics, which are increasingly important today and used in technical textile applications, and different performance concepts and measurement methods, and current technical fabric samples.								
19	Contribution of the Course to Professional Development:	To be able to comprehend the structural and performance properties of current technical fabrics used in textiles and to interpret the differences with conventional fabrics.								
20	Learning Outcomes:									
		1	To have knowledge about the concepts of conductivity and permeability							
		2	To be able to recognize the production methods of conductive textile structures							
		3	To be able to comprehend the structural and performance properties of conductive yarns and to be able to relate and interpret the structural and performance properties of conventional yarns.							
		4	To be able to recognize technical hybrid yarn structures							
		5	To be able to recognize thermal sports textiles that provide moisture management, acoustic textiles, blackout and dimout fabric structures, antistatic, ESD and conductive fabric structures, fabric designs with electromagnetic shielding in textiles.							
		To be able to comprehend the important issues in the use of conductive yarns in other textile processes and to compare and comment on the advantages and disadvantages of the properties added by the yarn to the fabric in the applications made with these yarns								

7	Ability to conduct research and transfer information using presentation techniques
8	
9	
10	

21												
	Course Content:											
Week	Theoretical		Practice									
1	Conductivity and Permeability Concer	ots										
2	Air, Water and Water Vapor Permeab Mechanisms in Fabrics and Association Fabric Structural Properties	ility on with										
3	Moisture Management and Thermal Conductivity Concepts and Measuren Methods in Textile	nent										
4	Yarns Used in the Production of Spor Fabrics	ts Wear										
5	Sound Insulation Concept, Measurem Methods and Acoustic Textiles	ient										
6	Visible Light, Ultraviolet and Solar Transmittance Concepts, Measureme Standards and Parameters	ent										
7	Blackout and Dimout Fabrics and Stru Properties	uctural										
Activit	es		Numbe	er	Duration (hour)	Total Work Load (hour)						
Theore	Ivanocomposites tical Carbon Black and Carbon Nanotubo I	Fibore	14		3.00	42.00						
Practica	als/Labs		0		0.00	0.00						
Self_stu	dy and preperation	- 	14		3.00	42.00						
Homew	vorks		0		0.00	0.00						
Project	Shielding Feature in Textile		0 0.00			0.00						
Field S	tudies		0		0.00	0.00						
Midtern	n exame		0		0.00	0.00						
Others			0 0.00			0.00						
Final E	kams		2005. 2 Chapm	an Roger ed	96.00 Smart textiles for r	96.00. protection.						
Total W	/ork Load					180.00						
Total w	ork load/ 30 hr		3. Shishoo 2015.	o, Rosnan, eo.	Textiles for sports	6.00 Elsevier,						
ECTS (Credit of the Course					6.00						
			June 2010, ISBN 1 84569 549 6, , 634 pages 5. Horrocks A. R., and Anand, S. C., Handbook of Technical Textiles, CRC Press, Woodhead Publishing, 2000, ISBN: 0849310474, 576 pages 6. Adanur S: Wellington Sears Handbook of Industrial Textiles, Technomic Publishing, Pennsylvania, 1995. 7. Engineering of High-Performance Textiles The Textile Institute Book Series,2018, Pages 305-334									
23	Assesment											
TERM L	EARNING ACTIVITIES	WEIGHT										
Midtern	n Exam	0.00										
Quiz		0.00										

40.00

1

Home work-project

Final Exam					1		60.	60.00								
Total						2		10	100.00							
Contribution of Term (Year) Learning Activities to Success Grade						40.	40.00									
Contribution of Final Exam to Success Grade							60.	60.00								
Total							10	100.00								
Measurement and Evaluation Techniques Used in the Course							ne As: wit	Assessment and evaluation in the course will be made with homework and a final exam.								
24 ECTS / WORK LOAD TABLE																
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	0	0	4	4	0	0	0	0	0	0	0	0	0	0
ÖK2	4	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0
ÖK3	4	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0
ÖK4	4	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0
ÖK5	4	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0
ÖK6	4	4	0	0	4	4	0	0	0	0	0	0	0	0	0	0
ÖK7	4	4	0	0	4	4	0	4	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib1 very low2 lowutionLevel:				3	3 Medium		4 High			5 Very High						