

# MEDICAL TEXTILES

1	Course Title:	MEDICAL TEXTILES
2	Course Code:	TEK4403
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	7
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
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:	B.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:	1.To train students in understanding of technical textiles. 2.To train the students in understanding of medical textiles. 3.To provide knowledge on fiber types and properties used for medical textiles. 4.To provide knowledge on textile structures used for medical textiles.
19	Contribution of the Course to Professional Development:	Learning medical textiles
20	Learning Outcomes:	
	1	To list technical textile materials.
	2	To recognize medical textile materials.
	3	To determine the appropriate fiber materials and textile structures for medical textiles.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Introduction to technical textiles	
2	Importance of medical textiles	
3	Fiber types and properties used for medical textiles	
4	Classification of medical textiles	
5	Properties of medical textiles	
6	Wound care products	
7	Extracorporeal devices	
8	Hygiene products in the operating theatre	
9	Biomaterials and biocompatibility	
10	Polymers used for implants	
11	Sutures	
12	Soft tissue implants	
13	Orthopedic implants	
14	Cardiovascular implants	

22	Textbooks, References and/or Other Materials:	1.E. Karaca, "Instructor Prepared Handouts", 2008. 2.S. Adanur, "Handbook of Industrial Textiles", Wellington Sears Company, USA, 1995.
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Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		4	4.00	16.00
Practicals/Labs		0	0.00	0.00
Self study and preparation		11	3.00	33.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		1	8.00	8.00
Others		1	8.00	8.00
Final Exams		1	10.00	10.00
Total Work Load				95.00
Contribution of Term (Year) Learning Activities to Total Work load/ 30 hr		40.00		2.90
ECTS Credit of the Course				3.00
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		Exams		

24	<b>ECTS / WORK LOAD TABLE</b>
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	2	0	0	0	0	0	4	0	0	2	0	0	4
ÖK2	0	0	0	0	0	0	0	0	0	4	0	0	2	2	3	5

ÖK3	4	3	4	0	0	0	0	0	0	0	0	0	0	0	3	5
LO: Learning Objectives   PQ: Program Qualifications																
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			