

FUNCTIONAL FINISHING

1	Course Title:	FUNCTIONAL FINISHING	
2	Course Code:	TEK5032	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
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 face	
14	Course Coordinator:	Prof. Dr. DİLEK KUT	
15	Course Lecturers:	Prof. Dr. Dilek KUT	
16	Contact information of the Course Coordinator:	Prof.Dr.Dilek KUT dilek@uludag.edu.tr 0-224-294 20 49 Bursa Uludağ Üniversitesi Mühendislik Fakültesi Tekstil Mühendisliği Bölümü Görükle 16059 Nilüfer BURSA / Türkiye	
17	Website:		
18	Objective of the Course:	Application methods and mechanism of processes will be comprehend and will be make studies that add value to materials	
19	Contribution of the Course to Professional Development:	Will gain the competence to approach in the functional properties of textile materials.	
20	Learning Outcomes:		
		1	Can comprehend mechanism of the different application technics.
		2	Can relate between material structure and application method
		3	Can obtain chemical that will develop agent properties and can set application parameters.
		4	Can assess and interpret effects after treatments.
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Finishing methods Padding		
2	Coating and laminating		
3	Foam application		

4	Microencapsulated	
5	Sol-Gel method	
6	Plasma Application	
7	Breathable Textiles	
8	Antimicrobial Textiles	
9	Protective Textiles Flame retardent Textiles Midterm Exam	
10	Water-Soil-Oil Repellent Textiles	
11	Self-Cleaning Textiles	
12	Thermoregulation for textiles	
13	Deodorising Textiles-Odor protective Textiles	
14	Test Methods for Functional Properties	

22	Textbooks, References and/or Other Materials:	Adaptive And Functional Polymers, Textiles and Their Applications, Jinlian Hu, 2011. Chemical Finishing Of Textiles, W.D.Schindler and P.J.Hauser, 2004.
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
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Midterm Exam	1	25.00			
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Activites	Number	Duration (hour)	Total Work Load (hour)
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Free Exam	1	60/40	3.00	42.00
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Practicals/Labs	0	0.00	0.00
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Contribution of Term (Year) Learning Activities to Success Grade	40.00	2.00	28.00
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Homeworks	3	10.00	30.00
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Contribution of Final Exam to Success Grade	60.00		
Projects	0	0.00	0.00

Field Studies	0	0.00	0.00
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Measurements and Evaluation Techniques Used in the	The students will be evaluated	25.00	25.00
Midterm exams	midterm exam	25.00	25.00
Homework	homework	25.00	25.00

Others	2	10.00	20.00
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Final Exams	1	35.00	35.00
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Total Work Load			180.00
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Total work load/ 30 hr			6.00
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ECTS Credit of the Course			6.00
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS
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LO: Learning Objectives **PQ: Program Qualifications**

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