TEXTILE COATING AND LAMINATING TECHNOLOGIES

1	Course Title:	TEXTILE COATING AND LAMINATING TECHNOLOGIES
2	Course Code:	TEK5024
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. MEHMET KANIK
15	Course Lecturers:	Yok / None
16	Contact information of the Course Coordinator:	E-mail: mekanik@uludag.edu.tr Phone: 224-2942050 Bursa Uludağ Üniversitesi Mühendislik Fakültesi Tekstil Mühendisliği Bölümü 16059-Görükle-BURSA
17	Website:	
18	Objective of the Course:	The aim of this course is to train the students and improve research skills in fields of preparation of the textile webs for coating and lamination, materials used for coating and lamination along with methods and technologies used in these fields.
19	Contribution of the Course to Professional Development:	Coating and Lamination techniques are mostly used in the production of technical textiles, and they contribute significantly to the professional development of the student by ensuring that they have a certain infrastructure in terms of designing and developing technical textile products and conducting R&D studies in this field.
20	Learning Outcomes:	
	1	Being able to distinguish differences between the principles and application areas of coating and lamination technologies.
	2	Being able to determine suitable materials and preparation processes required for a coated or a laminated product.
	3	Being able to decide suitable coating or lamination method for a given product.
	4	Being able to understand and propose solutions to common faults in textile coating and lamination applications.
	5	Being able to research in the field of textile coating and lamination along with observe and present of technological developments in these fields.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Introduction to textile coating and lamination technologies.	
2	Preparations for textile webs to be coated or laminated.	
3	Polymers used for coatings-1.	
4	Polymers used for coatings-2.	
5	Coating methods and general properties of coating unites.	
6	Coating technologies and machinery-1.	
7	Coating technologies and machinery-2.	
8	Special coating technologies.	
9	The materials used in lamination and their properties.	
10	Repetition of subjects covered. Mid-term exam.	
11	Lamination technologies and machinery-1.	
12	Lamination technologies and machinery-2.	
13	Industrial visit.	
14	Recent advancements in textile coating and	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	1	30.00	30.00
Projects	4	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	30.00	30.00
Others	1	5.00	5.00
Final Exams	1	45.00	45.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

22	Textbooks, References and/or Other Materials:	1. Karlık, M., Kaplama ve Laminasyon Lisans Ders Notları, 2019. ... Kitabı, The Textile Institute (Türkçesi: Türk Tekstil Vakfı), 2000. ... 4. Sen A. K., Coated Textiles, CRC Press, 2008. ... Springer, 2012.

23	Assesment	R			
Quiz	0	0.00			
Final Exam	1	60.00			
Total	3	100.00			
Contribution of Term (Year) Learning Activities to Success Grade	40.00				
Contribution of Final Exam to Success Grade	60.00				
Total	100.00				
Measurement and Evaluation Techniques Used in the Course	Exam, homework writing and presentation				

24	**ECTS / WORK LOAD TABLE**

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	0	0	2	2	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
ÖK4	4	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
ÖK5	0	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

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