

## COADET AND LAMINATION

<b>1</b>	Course Title:	COADET AND LAMINATION	
<b>2</b>	Course Code:	TEK3409	
<b>3</b>	Type of Course:	Optional	
<b>4</b>	Level of Course:	First Cycle	
<b>5</b>	Year of Study:	3	
<b>6</b>	Semester:	5	
<b>7</b>	ECTS Credits Allocated:	4.00	
<b>8</b>	Theoretical (hour/week):	2.00	
<b>9</b>	Practice (hour/week):	0.00	
<b>10</b>	Laboratory (hour/week):	0	
<b>11</b>	Prerequisites:	None	
<b>12</b>	Language:	Turkish	
<b>13</b>	Mode of Delivery:	Face to face	
<b>14</b>	Course Coordinator:	Prof. Dr. MEHMET KANIK	
<b>15</b>	Course Lecturers:	-	
<b>16</b>	Contact information of the Course Coordinator:	E-mail: mekanik@uludag.edu.tr Tel: 224-2942050 Uludağ Üniversitesi Mühendislik Mimarlık Fakültesi Tekstil Mühendisliği Bölümü 16058-Görükle-BURSA	
<b>17</b>	Website:		
<b>18</b>	Objective of the Course:	The aim of the course is to train the students in basic principles of textile coating and lamination, the materials and production methods used for the manufacture of common technical textiles produced by these techniques.	
<b>19</b>	Contribution of the Course to Professional Development:		
<b>20</b>	Learning Outcomes:		
		<b>1</b>	Being able to have knowledge on materials and methods used in coating and lamination, and their usage in the manufacture of technical textiles.
		<b>2</b>	Being able to compare the technical characteristics of the textiles that can be provided by the coating and laminating techniques.
		<b>3</b>	Being able to compare the technical characteristics of the textiles that can be provided by the coating and laminating techniques.
		<b>4</b>	Being able to determine appropriate materials and methods for a technical textile product which will be produced by coating and lamination.
		<b>5</b>	Being able to observe and present of technological developments in the field of technical textiles produced by coating and lamination.
		<b>6</b>	
		<b>7</b>	
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		<b>9</b>	
		<b>10</b>	

<b>21</b>	Course Content:	
	<b>Course Content:</b>	
<b>Week</b>	<b>Theoretical</b>	<b>Practice</b>
<b>1</b>	Introduction to coating and lamination techniques.	
<b>2</b>	Coating methods.	
<b>3</b>	Properties required on the textiles to be coated	
<b>4</b>	Coating chemicals I	
<b>5</b>	Coating chemicals II	
<b>6</b>	Coating methods and machines I	
<b>7</b>	Coating methods and machines II Quiz	
<b>8</b>	Coating methods and machines III	
<b>9</b>	Coating formulations Midterm exam	
<b>10</b>	Lamination and lamination materials	
<b>11</b>	Industrial visit.	
<b>12</b>	Lamination methods and machines	
<b>13</b>	Lamination methods and machines Homework presentations.	
<b>14</b>	Developments in coating and lamination technologies Homework presentations.	
<b>22</b>	Textbooks, References and/or Other Materials:	<p>1. Kanık, M. ve Manasoğlu, G., Coating and Lamination Technologies, ISBN 978-605-9193-01-6, BUTEKOM, 2016-Bursa.</p> <p>2. Horrocks, A. R. ve Anand, S. C., Handbook of Technical Textiles, The Textile Institute, 2000, Cambridge.</p> <p>3. Sen, A. K., Coated Textiles-Principles and Applications, Technomic Publishing Co., Lancasher, 2001.</p> <p>4. Fung, W., Coated and Laminated Textiles, CRC Press, Cambridge, 2002.</p>
<b>23</b>	Assesment	
<b>TERM LEARNING ACTIVITIES</b>		<b>NUMBER</b>
		<b>WEIGHT</b>
Midterm Exam		1
Quiz		1
Home work-project		1
Final Exam		1
Total		4
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		
<b>24</b>	<b>ECTS / WORK LOAD TABLE</b>	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.50	21.00
Homeworks	1	20.00	20.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	24.00	24.00
Others	1	7.00	7.00
Final Exams	1	20.00	20.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
ÖK2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
ÖK5	0	0	0	0	0	0	4	3	0	2	0	0	0	0	0	4
<b>LO: Learning Objectives    PQ: Program Qualifications</b>																
<b>Contribution Level:</b>	<b>1 very low</b>			<b>2 low</b>			<b>3 Medium</b>			<b>4 High</b>			<b>5 Very High</b>			