

# AUXILIARY CHEMICALS IN TEXTILE TREATMENTS

<b>1</b>	Course Title:	AUXILIARY CHEMICALS IN TEXTILE TREATMENTS	
<b>2</b>	Course Code:	TEK3412	
<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:	6	
<b>7</b>	ECTS Credits Allocated:	3.00	
<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. HÜSEYİN AKSEL EREN	
<b>15</b>	Course Lecturers:	Yok	
<b>16</b>	Contact information of the Course Coordinator:	Prof.Dr. Hüseyin Aksel EREN 42055, aksel@uludag.edu.tr	
<b>17</b>	Website:		
<b>18</b>	Objective of the Course:	To provide knowledge on types and classification of textile auxiliaries To teach the use and functions of textile auxiliaries. To teach the effects of different/equivalent auxiliaries.	
<b>19</b>	Contribution of the Course to Professional Development:		
<b>20</b>	Learning Outcomes:		
		1	Being able to classify and characterize the auxiliaries in Textile finishing
		2	Being able to understand the role of auxiliaries in Textile finishing processes
		3	Being able to compare equivalent auxiliaries respecting the efficiency and also environmental impact
		4	Becoming familiar to the commercial auxiliaries and prospectus during preparation of term homework
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<b>21</b>	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
<b>1</b>	Introduction to Textile Auxiliaries		
<b>2</b>	Characteristics and classification of Textile Auxiliaries		
<b>3</b>	Structure and Classification of Surfactants		

4	Anionic and Cationic Surfactants	
5	Non-ionic and Amphoteric Surfactants	
6	Non-surfactant auxiliaries, acids, bases and electrolytes	
7	Oxidants and reducing agents	
8	Midterm exam	
9	Optical brightening agents	
10	Auxiliaries according to their functions, salts and pH control	
11	Sequestrants	
12	Dispersing agents	
13	Retarding agents and thickening agents	
14	Fastness improving auxiliaries	

22	Textbooks, References and/or Other Materials:	<p>Tekstil Terbiye Yardımcı Maddeleri, Ferit ÖZGİRGİN, Sagem Yayınları, Yayın no:86, Şubat-1998, Bursa.168s.</p> <p>Colorants and Auxiliaries: Volume 2-Auxiliaries, John SHORE, SDC Yorkshire/England, ISBN:090195652X.373-600s</p> <p>Tekstil Terbiyesinde Kullanılan Yüzeyaktif Maddeler, Hüseyin Aksel Eren. ve Pervin Anış, I. Ulusal Tekstil Yardımcı Kimyasalları Kongresi, 2002, Tübitak-TKSD-U.Ü.MMF-U.Ü.FEK, Bursa, 30-45.</p> <p>Tekstil Terbiyesinde Kullanılan Kompleks Yapıcı ve İyon Tutucu Maddeler, Hatice Güler, 3.Tekstil Boyaları Kimyasal Maddeleri ve Uygulamadaki Son Yenilikler Sempozyumu, Aralık 1993, TMMOB Kimya Mühendisleri Odası Bursa Şubesi, s207-217.21.</p>
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23	Assesment	
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	30.00
Quiz	0	0.00
Home work-project	1	10.00
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		

24	<b>ECTS / WORK LOAD TABLE</b>
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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			
Homeworks	1		
Projects			
Field Studies			
Midterm exams	1		
Others			
Final Exams	1		
Total Work Load			
Total work load/ 30 hr			
ECTS Credit of the Course			3.00

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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
ÖK2	4	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	4	4
ÖK4	0	0	0	0	0	0	0	0	0	0	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>			