

## TEXTILE FINISHING AUXILLIARIES

1	Course Title:	TEXTILE FINISHING AUXILLIARIES	
2	Course Code:	TEK5012	
3	Type of Course:	Optional	
4	Level of Course:	Second 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. HÜSEYİN AKSEL EREN	
15	Course Lecturers:	YOK	
16	Contact information of the Course Coordinator:	aksel@uludag.edu.tr, 42055	
17	Website:		
18	Objective of the Course:	To teach the chemistry of textile auxiliaries. To teach the use and functions of textile auxiliaries. To teach the environmental issues and evaluations of textile auxiliaries.	
19	Contribution of the Course to Professional Development:	To teach the chemistry of textile auxiliaries. To teach the use and functions of textile auxiliaries. To teach the environmental issues and evaluations of textile auxiliaries.	
20	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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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Introduction to Textile Auxiliaries		

<b>2</b>	Characteristics and classification of Textile Auxiliaries, Structure and Classification of Surfactants	
<b>3</b>	Raw materials for hydrophile and hydrophobe	
<b>4</b>	Anionic and Cationic Surfactants Non-ionic and Amphoteric Surfactants	
<b>5</b>	Environmental impact of surfactants and evaluation methods	
<b>6</b>	Surface activity and micelle formation of surfactants	
<b>7</b>	Non-surfactant auxiliaries, acids, bases and electrolytes Oxidants and reductands Optical brightening agents	
<b>8</b>	Non-surfactant auxiliaries, acids, bases and electrolytes Oxidants and reductands Optical brightening agents	
<b>9</b>	Auxiliaries according to their functions, salts and pH control	
<b>10</b>	Sequestrants Dispersing agents	
<b>11</b>	Retarding agents and thickening agents	
<b>12</b>	Fastness improving auxiliaries	
<b>13</b>	Homework presentation and discussion	
<b>14</b>	Homework presentation and discussion	

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	16, Şubat-1998, Bursa	16	48.00	42.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		60.00	3.00	42.00
Homeworks		1	14.00	14.00
Projects	ve Pervin Anış, I. Ulusal Tekstil Yardımcı Kimyasalları	1	32.00	32.00
Field Studies		0	0.00	0.00
Midterm exams	Tekstil Terbiyesinde Kullanılan Kompleks Yarı ve İyon	1	20.00	20.00
Others		0	0.00	0.00
Final Exams		Maddeleri ve Uygulamada Kişon Yenilikler Sempozyumu, Ankara 1992, TMMOB Kimya Mühendisleri Odası Bursa	30.00	30.00
Total Work Load				200.00
Total work load/ 30 hr				6.00
ECTS Credit of the Course				6.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm Exam		1	20.00	
Quiz		0	0.00	
Home work-project		1	20.00	
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		HOMEWORK PROJECT WRITTEN EXAM		

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	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0
ÖK2	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0
ÖK3	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0
ÖK4	4	4	5	5	4	4	4	3	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			