AD	VANCED REACTION N	/IECH	ANISMS ON TEXTILE TREATMENT					
1	Course Title:	ADVANCED REACTION MECHANISMS ON TEXTILE TREATMENT						
2	Course Code:	TEK6020						
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 f	face					
14	Course Coordinator:	Prof. Dr.	MEHMET ORHAN					
15	Course Lecturers:	Yok						
16	Contact information of the Course Coordinator:	morhan@uludag.edu.tr Tel. +90.0.224.294 20 64 Adres: Bursa Uludağ Üniversitesi Mühendislik Fakültesi Tekstil Mühendisliği Bölümü 16059 Nilüfer Bursa, Türkiye.						
17	Website:							
18	Objective of the Course:	The general objective in this course is to give knowledge about the basic principles, applications, and uses of the basic principles of reaction mechanisms between textile fibers and chemicals in textile treatments.						
19	Contribution of the Course to Professional Development:	Students will learn about chemical reaction mechanisms in textile processes.						
20	Learning Outcomes:							
		1	The student will be able to define and explain the basic principles, approaches, and concepts of the Organic Chemistry.					
		2	The student will be able to define and explain the polymer and fiber structures, their properties, and their relations with each other's.					
		3	The student will be able to explain the reaction mechanisms occurring between textile fibers and chemicals.					
		4	To be able to make connections between organic functional groups and textile fibers.					
		5	The student will be able to select the appropriate reaction mechanism for any textile fiber.					
		6	The student will be able to describe and explain the risks related to organic compounds (personal and environmental).					
		7						
		8						
		9						
		10						

21	Course Content:										
		Coi	ur	se Content:							
Week	Theoretical		Pr	actice							
1	Classification of Polymers and Proper Textile Polymers	ties of									
2	Investigation of Some Fibers Produce Different Polymers	d from									
3	Carbon Compounds and Chemical Bo	onds									
4	Alkanes, Alcohols and Ethers, Amines Aldehydes and Ketones	5,									
5	Carboxylic Acids and Esters, Amides, Alkenes										
6	Aromatic Compounds: Aromaticity Be Aromatic Compounds Heterocyclic Ar Compounds Ortho / Meta- / Para-Posi	omatic									
7	Functional Group Transformations: Determination of Oxidation Step Electronegativity (C, H, O, Cl, Br)										
8	Reduction Reaction: Reduction Reage Oxidation Reaction: Oxidation Reaction:										
9	Acid-Base Reaction: Acid and Base D Weak Acids Strong Acids Buffer soluti										
10	Functional Groups, Intermolecular Fo	rces									
11	Ionic Reactions, Nucleophilic Displace	ement									
Activites				Number	Duration (hour)	Total Work Load (hour)					
Theore 14	ical Reactions of Aromatic Compounds			14	3.00	42.00					
Practica	als/Labs		-	0	0.00	0.00					
Selfestu	Lexthooks References and/or Other dy and preperation		20	ֆլhan M., Ders Notlar Crompton T.R. Chara	6.0021.	84.00 ers Volume 1					
Homew			-	1	14.00	14.00					
Project	8		3 Kaheel M., Modern Textue Characteri Publisher Marcel Dekker Inc. s 631 199			on Methods,					
Field St	tudies			0	0.00	0.00					
Midtern	n exams	•	D)(La	neremisinoff, N.P., P boratory Techniques	olymer Characteriz and Analysis, s.255	s.255, 1996.					
Others			(0	0.00	0.00					
Final E	kams		S.Z	yymer Syntnesis Char 231, 1998.	20.00 acterization- A Lab	20.00 Manual,					
Total W	/ork Load					180.00					
Total w	ork load/ 30 hr		8.\	strumentar Analysis, S Williams D.H., Flemind	IXIN Edition, S. 1107 II., Spectroscopic I	, 2005. Vietnods in					
ECTS (Credit of the Course					6.00					
			P.Criddle vv.J., Ellis G.P., Spectral and Chemical Characterization of Organic Compounds, 3. ed. John Wiley and Sons 1990. 10. G. Solomons ve C. Fryhle (Çev. Ed. G. Okay ve Y. Yıldırır), Organik Kimya, Literatür Yayınları, 2002. 11. J. McMurry, Organic Chemistry, Brooks/Cole Publishing Comp., 1992. 12. P. Y. Bruice, Organic Chemistry, Prentice Hall, 2001. 13. R. J. Fessenden ve J. S. Fessenden (Çev. Ed. T. Uyar), Organik Kimya, Güneş Kitabevi, 1992.								
23	Assesment										
TERM L		NUMBE R	WEIGHT								
Midtern	n Exam	1	30.00								
Quiz		0	0.00								
Home v	work-project	1	10.00								
	L.										

Final Exam	1	60.00							
Total	3	100.00							
Contribution of Term (Year) Learning Activities Success Grade	es to	40.00							
Contribution of Final Exam to Success Grade	Э	60.00							
Total		100.00							
Measurement and Evaluation Techniques Us Course	sed in the	It is done with written exams (Midterm, Homework, and Final).							
24 ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	4	3	0	2	0	0	0	2	0	0	0	0	0	0	0	4
ÖK2	4	3	0	2	0	0	0	2	0	0	0	0	0	0	0	4
ÖK3	3	3	2	2	2	3	0	0	0	0	3	0	0	0	0	4
ÖK4	3	3	0	4	3	0	0	0	0	0	0	0	0	0	0	4
ÖK5	3	3	0	3	4	0	0	0	0	0	0	0	0	3	0	4
ÖK6	4	4	0	2	3	3	0	0	0	0	3	2	3	3	0	4
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution			2 low		3	Medi	um	4 High			5 Very High				