

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Pretreatment of Cellulose				
Course Code	İTN201	Couse Level Short Cycle (Associate's Degree)			
ECTS Credit 7	Workload 175 (Hours)	Theory 2	2 Practice 1 Laboratory 0		
Objectives of the Course At the end of this course, students will gain competencies to practice process of hydrophile, bleacing and mercerizing to cellulose-based textiles					
Course Content Be able to make pre-finishing operations of cellulose-based fibers. To understand feautures of the machines and the chemicals which are used in process					
Work Placement N/A					
Planned Learning Activities	and Teaching Methods	Explanation (Pres	sentation), Experiment, Demonstration		
Name of Lecturer(s)					

Assessment Methods and Criteria				
Method	Percentage (%)			
Midterm Examination	1	40		
Final Examination	1	70		

Recommended or Required Reading				
1	TKAM Tekstil Terbiye Teknolojisi			
2	2 Genel Tekstil Terbiyesi ve Bitim İşlemleri Doç Dr. Süleyman ÇOBAN			
3	Lecture notes			

Week	Weekly Detailed Co	urse Contents		
1	Theoretical	Raw material input control		
	Practice	Raw material input control		
	Laboratory	Raw material input control		
2	Theoretical	Burning		
	Practice	Burning		
	Laboratory	Burning		
3	Theoretical	Burning		
	Practice	Burning		
	Laboratory	Burning		
4	Theoretical	Calculation of recipe		
	Practice	Calculation of recipe		
	Laboratory	Calculation of recipe		
5	Theoretical	Desizing/Boiling		
	Practice	Desizing/Boiling		
	Laboratory	Desizing/Boiling		
6	Theoretical	Boiling/ Scouring		
	Practice	Boiling/ Scouring		
	Laboratory	Boiling/ Scouring		
7	Theoretical	Bleacing by using hydrogen peroxide		
	Practice	Bleacing by using hydrogen peroxide		
	Laboratory	Bleacing by using hydrogen peroxide		
8	Theoretical	Bleacing by using hydrogen peroxide / sodium hypochlorite		
	Practice	Bleacing by using hydrogen peroxide / sodium hypochlorite		
	Laboratory	Bleacing by using hydrogen peroxide / sodium hypochlorite		
9	Theoretical	Bleacing by using sodium hypochlorite/ Bleacing by doing combination		
	Practice	Bleacing by using sodium hypochlorite/ Bleacing by doing combination		



		Course Informati	on Form	
9	Laboratory	Bleacing by using sodium hypochlorite/ Bleacing by doing combination		
10	Theoretical	Bleacing by doing combination		
	Practice	Bleacing by doing combination		
	Laboratory	Bleacing by doing combination		
11	Theoretical	Optical Bleaching		
	Practice	Optical Bleaching		
	Laboratory	Optical Bleaching		
12	Theoretical	Fabric mercerizing		
	Practice	Fabric mercerizing		
	Laboratory	Fabric mercerizing		
13	Theoretical	Cylinder mercerizing		
	Practice	Cylinder mercerizing		
	Laboratory	Cylinder mercerizing		
14	Theoretical	Yarn and hank mercerizing		
	Practice	Yarn and hank mercerizing		
	Laboratory	Yarn and hank mercerizing		

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	1	14
Seminar	5	0	2	10
Project	1	0	10	10
Laboratory	10	0	3	30
Reading	11	0	3	33
Midterm Examination	1	20	0	20
Final Examination	1	30	0	30
		To	otal Workload (Hours)	175
		[Total Workload ((Hours) / 25*] = ECTS	7

20 Hour Workload is accepted as 1 2010

Learning Outcomes

- 1 1. To make preparation of a fabric
- 2 2. Hydrophile process
- 3 3. 4. Mercerizing process Bleaching of cellulose-based textiles
- 4 Do optical whitening.
- 5 To make desizing operations.

Programme Outcomes (Textile Technology)

- To have basic theoretical and practical knowledge related to the field of textile technology, weaving, finishing process and pattern design. Be able to recognize problems, develop solutions for the problems, designing and having the ability to use theoretical knowledge in practical applications.
 - 2. Be able to identify problems, develop solutions to the problems, be able to devise, to have the ability to use theoretical knowledge in practical applications by using acquired the basic knowledge and skills in the field. Be able to choose technical equipments which are needed for applications in the field and use effectively. Awareness of the need for life-long learning to follow developments in the textile technology, learning independently and to gain awareness of continuous self-renewal. Be able to examine the application of production processes in the textile industry. Be respectful to their own history and to be conscious about the subjects of social responsibility, universal and social and professional ethics.
- 3. To have basic theoretical and practical knowledge related to the field of textile technology, weaving, finishing process and pattern design. To be conscious about the subjects of job security, the information of environmental protection, quality awareness and being conscious of participating in team work.
- 4. Be able to identify problems, develop solutions to the problems, be able to devise, to have the ability to use theoretical knowledge in practical applications by using acquired the basic knowledge and skills in the field. To be conscious about the subjects of job security, the information of environmental protection, quality awareness and being conscious of participating in team work.
- 5. Be able to examine the application of production processes in the textile industry. Be able to identify problems, to develop solutions to the problems, be able to devise, to have the ability to use theoretical knowledge in practical applications by using acquired the basic knowledge and skills in the field. Be respectful their own history and be conscious about the subjects of social responsibility, universal and social and professional ethics.



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- 6. Be able to examine the application of production processes in the textile industry. To be aware solutions and applications of
 the effects of global and societal context in technician-level; being aware of entrepreneurship and innovation, and to have knowledge of the issues of the age.
- 7 To gain the knowledge and awareness of Ataturk's principles & reforms and using Turkish Langue effectively.
- 8. To gain the knowledge about his/her society and to gain a different point of view about the world

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2:Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3
P1	3	3	3
P2	5	5	5
P3	5	5	5
P4	5	5	5
P5	5	5	5
P6	3	3	3
P7	4	4	4
P8	3	3	3

