



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Practice in Treatment Enterprise -I							
Course Code		İTN205		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	1	Practice	3	Laboratory	0
Objectives of the Course		To learn how to make it best the laboratory conditions, laboratory devices, equipments and pre- finishing process. Also, be able to determine calculations of recipe.							
Course Content		Laboratory conditions, laboratory devices, laboratory equipments, calculations of recipe and practicing of pre-finishing processes.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	TKAM Tekstil Terbiye Teknolojisi
2	Selülozun Ön Terbiyesi Nigar Bayduz.
3	Lecture notes

Week	Weekly Detailed Course Contents	
1	Theoretical	Laboratory conditions and the points to consider about working conditions
	Practice	Laboratory conditions and the points to consider about working conditions
	Laboratory	Laboratory conditions and the points to consider about working conditions
2	Theoretical	Definition of laboratory equipments and the operating features of laboratory equipments.
	Practice	Definition of laboratory equipments and the operating features of laboratory equipments.
	Laboratory	Definition of laboratory equipments and the operating features of laboratory equipments.
3	Theoretical	Definition of the chemicals which are used in textile and the operating features of chemicals.
	Practice	Definition of the chemicals which are used in textile and the operating features of chemicals.
	Laboratory	Definition of the chemicals which are used in textile and the operating features of chemicals.
4	Theoretical	Definition of the chemicals and measurement of chemical agents
	Practice	Definition of the chemicals and measurement of chemical agents
	Laboratory	Definition of the chemicals and measurement of chemical agents
5	Theoretical	The calculations of recipe
	Practice	The calculations of recipe
	Laboratory	The calculations of recipe
6	Theoretical	The calculations of concentration recipe
	Practice	The calculations of concentration recipe
	Laboratory	The calculations of concentration recipe
7	Theoretical	Definition of cellulose fibres and pre- finishing process of cellulose based fibers
	Practice	Definition of cellulose fibres and pre- finishing process of cellulose based fibers
	Laboratory	Definition of cellulose fibres and pre- finishing process of cellulose based fibers
8	Theoretical	Desizing process with enzymes, acids, alkalies, oxidative desizing
	Practice	Desizing process with enzymes, acids, alkalies, oxidative desizing
	Laboratory	Desizing process with enzymes, acids, alkalies, oxidative desizing
9	Theoretical	Alkalies process (boiling, scouring)
	Practice	Alkalies process (boiling, scouring)
	Laboratory	Alkalies process (boiling, scouring)
10	Theoretical	Bleaching processes (bleaching with hydrogen peroxide)



10	Practice	Bleaching processes (bleaching with hydrogen peroxide)
	Laboratory	Bleaching processes (bleaching with hydrogen peroxide)
11	Theoretical	Bleaching processes (bleaching with sodium chlorite and sodium hypochlorite)
	Practice	Bleaching processes (bleaching with sodium chlorite and sodium hypochlorite)
	Laboratory	Bleaching processes (bleaching with sodium chlorite and sodium hypochlorite)
12	Theoretical	Mercerization and optical bleaching
	Practice	Mercerization and optical bleaching
	Laboratory	Mercerization and optical bleaching
13	Theoretical	Washing processes of woollens/ Carbonization processes of woollens
	Practice	Washing processes of woollens/ Carbonization processes of woollens
	Laboratory	Washing processes of woollens/ Carbonization processes of woollens
14	Theoretical	Pre-finishing processes of synthetic fibers, the finishing processes on silk fiber
	Practice	Pre-finishing processes of synthetic fibers, the finishing processes on silk fiber
	Laboratory	Pre-finishing processes of synthetic fibers, the finishing processes on silk fiber

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	3	42
Project	1	0	10	10
Laboratory	10	0	2	20
Midterm Examination	1	6	0	6
Final Examination	1	8	0	8
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To understand laboratory conditions
2	To learn laboratory devices and laboratory equipments
3	Be able to do calculation of recipe
4	Be able to practice pre- finishing processes
5	To make fiber recognition tests.

Programme Outcomes (Textile Technology)

1	1. 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	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	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	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	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.
6	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	7. To gain the knowledge and awareness of Atatürk's principles & reforms and using Turkish Language effectively.



8 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	L4
P1	5	5	5	5
P2	5	5	5	5
P3	5	5	5	5
P4	5	5	5	5
P5	5	5	5	5
P6	3	3	3	3
P7	5	5	5	5
P8	3	3	3	3

