AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Cheesecloth Tissue With Filament Production Technology							
Course Code		TTİ259		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	104 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To students; 1-Non-woven tissue and fabric production, the sector, used fibers and use areas to introduce. 2-Nonwoven fabric production methods and machines to teach 3-Non-woven fabrics to introduce. 4-Non-woven fabrics can be applied to teach physical and chemical tests. 5-To determine the fiber type, production method, usage area and property by analyzing the nonwoven fabrics.							
Course Content		1-Definition of nonwoven fabrics, historical development, classification of market situation, usage 2-Discrete and filament fibers, binding agents and chemicals used in the nonwoven fabric manufacturing 3-Classification of dry laying, wet laying and filament laying texture formation 4-Combing and laying web lay-down texture formation technologies 5-Woven web formation technology with wet laying classification of technologies and machines 8-Spraying, impregnation, coating, foam and printing chemical bonding technologies 9-Pinning, erecting and water jet mechanical tissue bonding technologies and ultrasonic technologies 12 - Physical and chemical test methods to be applied on nonwoven fabrics							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Project Based Study					
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	AKALIN, M .; ÖZEN, M.S .: "Web-based (Non-woven) Fabrics, Generation Printing, ISBN: 978-605-61602-0-2, Istanbul, (2010)
2	URBAK, A.F.: "Nonwovens: Theory, Process, Performance, and Testing", Tappi Press, Atlanta, Georgia, (1993)
3	Prof.Dr.K.Duran- Non-woven textile Surfaces

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition, historical development and classification of non-woven fabrics
2	Theoretical	Areas and markets state of Turkey and based nonwoven web of the world
3	Theoretical	Discrete, filament fibers, chemical and binding agents used in the production of web-based nonwoven fabrics
4	Theoretical	Introduction to tissue production and classification of web formation methods
5	Theoretical	Excavator machine with cheesecloth texture creation technology and machines
6	Theoretical	Air laying and laying with wet laying methods
7	Theoretical	Filament laying and melt-spraying
8	Theoretical	Midterm exam
9	Theoretical	Chemical texture / fabric bonding methods (coating, impregnation, spraying, foam and printing) and machines
10	Theoretical	Classification of the methods of web binding (mechanical, chemical and thermal)
11	Theoretical	Mechanical pinning of tissue binding technologies and machines
12	Theoretical	Water-jet tissue bonding technologies and machines
13	Theoretical	Thermal cheesecloth texture / fabric bonding technologies (furnace, calender rollers and ultrasonic) and machines
14	Theoretical	Mali techniques and machines with financial techniques

15	Theoretical	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Assignment	8	3	2	40
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
			Total Workload (Hours)	104
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	The market of nonwoven fabrics, historical development, classification, basic information about the used and filament fibers used
2	Basic information about web formation (dry laying, wet laying, filament laying)
3	Ability to analyze nonwoven fabrics and the type of fiber, production method, usage area and properties
4	Learns the usage areas and properties of non-woven textile surfaces.
5	Basic information about the working principles of tissue bonding machines (mechanical, thermal, chemical)

Programme Outcomes *(Textile Technology)*	
1	Distinguishing textile fibers
2	Obtaining a sample thread
3	Obtaining a sample woven fabric
4	Obtaining a knitted fabric (Jersey)
5	Carring out overall discipline operations
6	Garment-making operations
7	Obtaining cotton thread
8	Obtaining cotton thread
9	Obtaining cotton thread
10	Obtaining wool thread
11	Obtaining filament thread
12	Obtaining staple thread
13	Obtaining fancy thread
14	Obtaining thread by means of new apining techniques
15	Performing fibre tests
16	Performing thread tests
17	Implementing Quality Assurance System
18	Making statistical calculations
19	Making projects
20	Practicing in a spinning mill

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

	L1	L2	L3	L4	L5
P6	2				
P11	5	3	3		
P12	5	3	3		
P15	2				
P16	2				
P19	5	5	5	5	5
P20	5				