

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Physical Textile	e Testing						
Course Code		TTİ224		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	6	Workload	154 (Hours)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course			ods to be app	blied for each	test meth			of fiber, yarn and fa ining the fiber type	
Course Content	t	sampling metho microprojection drawing, tensile foreign matter of determination in elongation in ya and the uneven Yarn hairiness of properties of fal pilling test, fricti	bds for fiber f , fineness ar e strength an content and c n yarns, dete arn. The num meass measu measuremer brics, tensile fon resistanc determinatio	ests, fiber fin ad evaluation d elongation other physica remination of ber of fine pl rement. Caus of, friction tes strength and e, measurem n of row-colu	eness an fiber leng measurer propertie wist direct aces in th ses of irrect on yarns elongatio ent of we mn freque	d measuremen gth measuremen ment of fibers, b es of cotton fibe ction and numbu e yarn, the num gularity in yarn s. Determination on of fabrics, te ft and warp yar encies. Measur	t methods, f ent and mea bundle fiber er, test by H er in yarns, f nber of thick and determ n of dimensi ar strength, n frequencie ement of thi	mportance in textile iber recognition in surement, staple d strength, fineness, /I system, number tensile strength and places, the amour ination of these so onal and structural stitch strength, sea es. Detonation stre ckness and weight	iagram maturity d nt of nep urces. am drift, ngth of
Work Placement N/A									
Planned Learnii	ng Activities	s and Teaching M	lethods	Explanation	(Presenta	ation), Problem	Solving		
Name of Lectur	or(s)								

Name of Lecturer(s)

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

Recommended or Required Reading

1 Prof.Dr.Mehmet AKALIN, Physical Tests in Textile Lecture Notes - P.B. Saville, 'Physical Testing of Textiles', Woodhead Publishing, 1999

Week	Weekly Detailed Course Contents						
1	Theoretical	Standard atmospheric conditions, sampling methods, SI units					
2	Theoretical	Determination of fiber types by heat and flame effect test					
3	Theoretical	Examination of longitudinal appearance and cross-section of fibers by microscope					
4	Theoretical	Determination of fiber types by simple dyeing test					
5	Theoretical	Cotton and wool fiber length measurement, staple diagram preparation					
6	Theoretical	Measuring the diameter of wool fiber by microscope					
7	Theoretical	Measurement of the strength, length, foreign matter content, color value and fineness of cotton fiber in HVI device					
8	Theoretical	Midterm					
9	Theoretical	Determination of yarn count and the number of twists on the yarn					
10	Theoretical	Measurement of yarn breaking strength and elongation					
11	Theoretical	Determination of the number of fine places, thick places and neps on the yarn, measurement of yarn unevenness and hairiness					



12	Theoretical	Measurement of fabric thickness, weight, weft and warp frequency
13	Theoretical	Measure the tensile strength and elongation of the fabric, tear strength and blast strength
14	Theoretical	Measure the tensile strength and elongation of the fabric, tear strength and blast strength

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	1	3	56	
Lecture - Practice	14	14 1		28	
Assignment	8	2	4	48	
Midterm Examination	1	10	1	11	
Final Examination	1	10	1	11	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
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*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To determine the types of textile fibers
2	Measure the physical properties of fibers
3	To be able to measure physical and mechanical properties of yarns
4	To be able to determine the properties of fabrics by applying physical testing methods
5	To be able to evaluate the physical test results obtained from textile materials

Programme Outcomes (Textile Technology)

	amme 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
P1	2	4			
P2	2				
P3	2			3	
P4	2				
P5	2				
P6	1				



Course Information Form

P7	3	3	3	2	
P8	3	3	3	2	
P9	3	3	3	2	
P14	4	4	4	4	
P15	4	4	4	4	
P16	5	5	5	5	5
P17	4	4	4	4	
P18	3	3	3	3	
P19	5	5	5	5	5
P20	5	5	5	5	5