



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Synthetic Spinning							
Course Code		TTİ251		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	106 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Students will be able to; have information about spinning of wool and cotton artificial fibers in conventional spinning systems and basic texturing of filament yarns.							
Course Content		Spinning of wool and cotton artificial fibers in conventional spinning systems, definition of textures, classification of texturing methods, production principles of these methods, (false twist texturing method and air jet texturing method, etc.), gravity texturing, production of BCF yarns, other bulky yarn production methods, Learning the production techniques of High-Bulk yarns.							
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	- Prof.Dr. Suat Canoğlu, ders notları - Sentetik Filament İplik Üretim ve Tekstüre Teknolojileri
2	/Ali Demir, İstanbul, -Yarn texturing technology
3	J W S Hearle, L Hollick and D K Wilson, Textile Institute,

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of synthetic spinning
2	Theoretical	Concepts related to synthetic spinning
3	Theoretical	Synthetic yarn production methods
4	Theoretical	Synthetic yarn production methods
5	Theoretical	Machine features used in producing synthetic yarn
6	Theoretical	Machine features used in producing synthetic yarn
7	Theoretical	Comparison of synthetic spinning with other methods
8	Theoretical	Midterm Exam
9	Theoretical	Definition of textures, classification of texturing methods
10	Theoretical	Explanation of various texturing production methods
11	Theoretical	Texturing with false twist method
12	Theoretical	Texturing with false twist method
13	Theoretical	Air jet texturing method
15	Theoretical	Air jet texturing method

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Project	7	1	3	28
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				106
[Total Workload (Hours) / 25*] = ECTS				4

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	The student learns to design, produce and make production of cotton and wool type artificial fibers.
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2	Student will be able to learn texturing methods, texturized yarn production and yarn quality control.
3	Compare different methods
4	To be able to comprehend control points for quality production
5	To adopt modern and innovative production techniques

### 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
P1	5				2
P2	3				2
P3	3				2
P4	3				2
P5	2				2
P6	2				2
P7	2				2
P8	2				2
P9	2				2
P10	2				2
P11	5	5	4	4	5
P12	5	5	4	4	5
P13	5			4	5
P14	3				
P15	5				
P16	4				
P17	4				
P19	5	5	4	4	4
P20	5	5	4	4	4

