



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Fiber Technology							
Course Code		ZTB530		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	7	Workload	170 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To ensure learning yarn manufacturing and dye materials.							
Course Content		Yarn properties, a mixture of fibers, yarn manufacturing, yarn numbering systems, yarn types, dyestuffs							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Project Based Study					
Name of Lecturer(s)		Prof. Mustafa Ali KAYNAK							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Harmancıoğlu, M., 1973. Lif teknolojisi, E.Ü. Zir. Fak. Yayınları, No:88
2	Kohel, R. J., Lewis, C.F., 1984. Cotton. American Society of Agronomy Inc., No:24
3	Smith, C.W., Cothren, J.T. 1999. Cotton. John Wiley & Sons, Inc.

Week	Weekly Detailed Course Contents	
1	Theoretical	Classification of fibres
2	Theoretical	Fibres properties
3	Theoretical	Fibres mixed and objectives
4	Theoretical	Fibres are widely used in a mixture of fibres and fibres ration
5	Theoretical	Yarn manufacturing stages
6	Theoretical	Yarn properties
7	Theoretical	Systems of yarn numbering
8	Theoretical	Ring spinning
9	Theoretical	Open-end spinning
10	Intermediate Exam	Midterm Exam
11	Theoretical	Flax yarn
12	Theoretical	Other plant origin yarns
13	Theoretical	Naturel dyes matters
14	Theoretical	Synthetic dyes matters
15	Theoretical	Fastness
16	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	3	26	0	78
Term Project	1	12	0	12
Midterm Examination	1	8	1	9
Final Examination	1	14	1	15
Total Workload (Hours)				170
[Total Workload (Hours) / 25*] = ECTS				7

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	To be able to evaluate the importance of the yarn
2	To be able to synthesise the techniques to obtain quality yarn
3	To be able to evaluate the importance dyestuffs
4	To be able to synthesise dye materials for quality dyeing
5	To be able to solve the problems in the yarn manufacturing and dyeing

**Programme Outcomes (Field Crops Master)**

1	To be able to improve and deepen the level of expertise in field crops on the basis of the departments licenses qualifications.
2	To be able to recognize the subjects related to field crops, to be able to solve these and make interpretation.
3	To be able to have the skills of acting independently, to have power to decide and to create.
4	To be able to work in teams between departments
5	To be able to give briefing about latest information of Field Crops in written, oral and visual ways.
6	To be able to take responsibility for developing the new approaches and to formulate a solution facing unforeseen complex situations of applications,
7	To be able to defend the original opinions in both Turkish and in foreign languages by using these languages and communicating effectively.
8	To be able to contribute to science by producing knowledge for the aim of improving quality, efficiency and sustainability
9	To be able to apply breeding methods in order to improve new varieties for Field Crops.
10	To be able to maintain and select the appropriate statistical methods within the framework of the study, evaluation of scientific ethics; to convert the results into a report/dissertation and to offer them by producing scientific publications.

**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	4	4	4	4	5
P2	5	5	4	5	5
P3	4	4	5	4	5
P4	3	4	5	5	5
P5	4	4	4	4	5
P6	4	5	4	5	5
P7	5	5	5	5	5
P8	4	3	4	4	5
P9	5	5	5	5	5
P10	5	5	5	5	5

