



**AYDIN ADNAN MENDERES UNIVERSITY**  
**GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES**  
**FIELD CROPS**  
**FIELD CROPS**  
**FIELD CROPS MASTER**  
**COURSE INFORMATION FORM**

Course Title	Fiber Crops								
Course Code	ZTB519	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	7	Workload	177 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Agronomy and morphological characteristics of naturally fiber produced plants, fiber development and fiber quality parameters.								
Course Content	The importance an production of fiber plants in the World and Turkey, increasing of fiber yield and fiber quality, characteristics of naturally fiber produced plants, fiber quality parameters and growth of of naturally fiber produced plants.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Project Based Study, Individual Study								
Name of Lecturer(s)									

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	1. Mert, M. 2009. Lif Bitkileri. Nobel yayınları
2	2. Smith, C.W. and J. T. Cothren (eds.). 1999. Cotton: Origin, History, Technology, and Production. John Wiley & Sons, Inc., New York, NY. 850 p

Week	Weekly Detailed Course Contents	
1	Theoretical	The importance of naturally fiber produced plants
	Practice	Literature search
2	Theoretical	Production potential of fiber plants in Turkey
	Practice	Literature search
3	Theoretical	Problems and solutions for production of naturally fiber produced plants
	Practice	Literature search
4	Theoretical	Classification of naturally fiber produced plants
	Practice	Literature search
5	Theoretical	Fiber properties of naturally produced fibers
	Practice	Fiber quality properties
6	Theoretical	Taxonomy, origin and evolution of cotton species
	Practice	Literature search
7	Theoretical	Adaptation, growing conditions, harvesting and storing of cotton
	Practice	Explaining with visual presentations
8	Intermediate Exam	Midterm Exam
9	Theoretical	Fiber development in cotton
	Practice	Explaining with visual presentations
10	Theoretical	Structure of cotton fiber and cellulose synthesis
	Practice	Explaining with visual presentations
11	Theoretical	Physical and chemical properties of cotton fiber
	Practice	Physical and chemical properties of cotton fiber
12	Theoretical	Analysis of factors effecting cotton fiber quality parameters
	Practice	Literature search
13	Theoretical	The taxonomy, adaptation, growing conditions, harvesting and storing of flax and hemp
	Practice	Explaining with visual presentations
14	Theoretical	Basic information and adaptation about other naturally fiber produced plants



14	Practice	Literature search
15	Theoretical	Term paper presentation
	Practice	Presentations
16	Final Exam	Final exam

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	10	0	5	50
Project	10	0	5	50
Midterm Examination	1	1	10	11
Final Examination	1	0	10	10
Total Workload (Hours)				177
[Total Workload (Hours) / 25*] = ECTS				7

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	1. To be able to comprehend the production, consumption and importance of naturally fiber produced plants
2	2. To be able to explain the classification of naturally fiber produced plants.
3	3. To be able to comprehend the cellulose synthesis in fiber plants
4	4. To be able to comprehend the fiber quality parameters and factors effecting fiber quality
5	5. To be able to analyze new ways to increase fiber production and presentation of the results as a report.

**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	5	4	5	4	4
P2	4	2	5	3	5
P3	5	5	5	5	4
P4	2	5	5	5	3
P5	5	5	5	5	4
P6	5	5	5	5	4
P7	5	5	5	5	4
P8	5	5	5	5	5
P9	5	5	5	5	3
P10	5	5	5	5	4

