



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Plant Fibres and Control of Quality							
Course Code		ZTB507		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	203 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		To ensure the learning the fiber quality control and standardization used by observation of the structure of plant fibers							
Course Content		Classification of plant fibers, The anatomic structure of plant fibre and formation of plant fibre, fiber quality characteristics, standardization and quality control.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Project Based 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	Gordon, S. 2006, Cotton: Science and Technology. ISBN: 1 84569 026
2	Gupta, V. B., Agrawa, K. A, and Jassal. M. 2006 Elements of fibre science. India Institute of technology ISBN: 1 84569 045 1
3	Hearl, S. W. J. 2001. High performance fibres. UK. ISBN: 1 85573 5393
4	Kohel, R. J., Lewis, C.F., 1984.Cotton.American Society of Agronomy Inc., No:24

Week	Weekly Detailed Course Contents	
1	Theoretical	The classification and importance of plant fibres
	Preparation Work	Presentation of the fibers
2	Theoretical	The anatomic structure of fibre formation (seed and fruit fibres)
3	Theoretical	The anatomic structure of fibre formation (stalk and leaf fibres)
	Preparation Work	The research in laboratory
4	Theoretical	The chemical structure of plant fibres
	Preparation Work	The research in laboratory
5	Theoretical	Fiber quality characteristics (length, fineness, strength)
	Preparation Work	The research in laboratory
6	Theoretical	The research in laboratory
	Preparation Work	The research in laboratory
7	Preparation Work	Term paper
8	Intermediate Exam	Midterm Exam
9	Theoretical	Fiber quality properties and environment
11	Theoretical	Fiber contamination
	Preparation Work	Literature review
12	Theoretical	Standardization of cotton fiber in Turkey
	Preparation Work	The research in gin factory
13	Theoretical	Control of cotton bales
14	Theoretical	Problems of standardization and control of cotton bales
	Preparation Work	The research in gin factory
15	Theoretical	The standartization of other plant fibres and quality control
	Preparation Work	Literature reviewing
16	Final Exam	Final Exam



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	2	2	56
Assignment	1	30	0	30
Term Project	1	30	0	30
Midterm Examination	1	12	2	14
Final Examination	1	15	2	17
Total Workload (Hours)				203
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to evaluate the importance of plant fibers
2	To be able to synthesise the obtained techniques of quality and productive plant fibre
3	To be able to evaluate the importance of standardization and quality control
4	To be able to solve the problems in standardization
5	To be able to solve the problems in quality control

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

