



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

Course Title	Cotton Breeding								
Course Code	ZTB523	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	7	Workload	177 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	To improve the new variety by conventional breeding methods								
Course Content	Cotton breeding objectives, breeding methods and variety improving								
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. Kohel, R. J., Lewis, C.F., 1984. Cotton. American Society of Agronomy Inc., No:24
2	2. Smith, C.W., Cothren, J.T. 1999. Cotton. John Wiley & Sons, Inc.

Week	Weekly Detailed Course Contents	
1	Theoretical	The history of cotton breeding, the purpose of breeding
	Preparation Work	Literature review
2	Theoretical	The cotton taxonomy and species
	Preparation Work	Literature review
3	Theoretical	Inheritance of qualitative characteristics
	Preparation Work	Literature review
4	Theoretical	Inheritance of quantitative characteristics
5	Theoretical	Breeding methods, germplasm
	Preparation Work	Literature review
6	Theoretical	Selection breeding method
	Preparation Work	Literature review
7	Theoretical	The breeding methods of variety conservation
8	Theoretical	The parents selection in cross breeding
	Preparation Work	Literature review
9	Theoretical	Crossing technique
	Preparation Work	Literature review
10	Preparation Work	Term paper
11	Intermediate Exam	Midterm Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	3	24	0	72
Term Project	1	24	0	24
Midterm Examination	1	8	1	9



Final Examination	1	14	2	16
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 evaluate the importance of cotton breeding
2	2. To be able to synthesise breeding methods to quality and productive new variety improving
3	3.To be able to evaluate the improving new variety by conventional breeding methods
4	4.To be able to solve the problems in the application of cotton breeding
5	Determination of optimal selection method in cotton breeding in abiotic stress conditions

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

