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

Course Title	Cotton Ecology and Physiology								
Course Code	ZTB516		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	7	Workload	175 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The evaluation of cotton physiology and ecology regarding to climate and soil.								
Course Content	Mapping of plant by using relationship between physiological descriptions and nutrient relations Parameters of temperature and light in cotton.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving								
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. Smith, C.W., Cothren, J.T. 1999. Cotton. John Wiley & Sons, Inc
2	2. Hake, S.J. Kerby, T.A., Hake, K.D. 1996. Cotton production Manual. Uni. Of California

Week	Weekly Detailed Course Contents	
1	Theoretical	The climate and soil requirements of cotton
	Preparation Work	Literature review
2	Theoretical	Temperature and growing degree-days
3	Theoretical	Interception and photoperiodism
	Preparation Work	Term paper
4	Theoretical	Soil productivity and nutrient
	Preparation Work	Presentation and discussion
5	Theoretical	Seed and germination physiology
	Preparation Work	Presentation and discussion
6	Theoretical	Root and leaf physiology
	Preparation Work	Demonstration-Remodelling
7	Theoretical	Flowering and boll development
	Preparation Work	Demonstration-Remodelling
8	Theoretical	Presentation
9	Intermediate Exam	Midterm exam
10	Theoretical	Plant growth regulators used in cotton
11	Theoretical	Seconder Metabolites in Cotton
	Preparation Work	Demonstration-Remodelling
12	Theoretical	Stress physiology
	Preparation Work	Presentation and discussion
13	Theoretical	Maturing and harvest
	Preparation Work	Presentation and discussion
14	Theoretical	Harvest-aid chemicals
	Preparation Work	Term paper
15	Theoretical	Fiber quality properties and environment
	Preparation Work	Term Project
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	50	100
Term Project	1	1	30	31
Midterm Examination	1	7	1	8
Final Examination	1	7	1	8
			Total Workload (Hours)	175
			[Total Workload (Hours) / 25*] = **ECTS**	7
25 hour workload is accepted as 1 ECTS				

Learning Outcomes	
1	1. To be able to develop and deepen the expertise in Cotton Ecology and Physiology
2	2. To be able to establish the relationship between cotton quality and cotton ecology and physiology
3	3. To be able to establish a relationship between cotton quality , yielding and Cotton Ecology and Physiology
4	4. To be able to solve complex problems in terms of physiology and developing ideas
5	5. To be able to establish a relationship between cotton ecology and physiology, and other disciplines

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	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5
P6	5	5	5	5	5
P7	5	5	5	5	5
P8	5	5	5	5	5
P9	5	5	5	5	5
P10	5	5	5	5	5