

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Physiology of Agricultural Plants in Stress						
Course Code ZTO522 Couse Level Second Cycle (Master's I		egree)					
ECTS Credit 7	Workload 180 (Hours) Theory	2	Practice	2	Laboratory	0
Objectives of the Course In general the aim of the course is to give information about response of plants against environmental stress factors.					mental		
Course Content Terminology, Sources of engadiation, Flooding, Mechan Allelochemicals, Nutrients, Fallelopathy, Lack of Symbios		anical, Electric Pesticides, To	al, Magne xins, Salt	tic, Wind). Che s, pH of soil so	emical Source olution). Biot	ces (Air Pollution,	
Work Placement							
Planned Learning Activities and Teaching Methods		Explanation Based Study			ent, Demon	stration, Discussio	n, Project
Name of Lecturer(s)	Prof. Mehmet Ali DEMİRA	L					

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	60			

Reco	mmended or Required Reading
1	The Physiology of Plants under Stress. Maynard G. Hale, David M. Orcutt. 1987. John Wiley & Sons Inc. ISBN. 0-471-88997-0.
2	Bitki Besleme. Burhan Kacar, Vahap Katkat. 1998. Vipaş Yayınları. ISBN: 975-564-068-1.
3	Bitki Fizyolojisi Burhan Kacar Vahan Katkat Sule Öztürk 2002 Nobel Yayıncılık ISBN 978-975-591-833-4

Week	Weekly Detailed Cour	rse Contents
1	Theoretical	Terminology
	Preparation Work	Power point presentation.
2	Theoretical	Physical Stress Factors
	Preparation Work	Power point presentation.
3	Theoretical	Physical Stress Factors
	Preparation Work	Power point presentation.
4	Theoretical	Physical Stress Factors
	Preparation Work	Power point presentation.
5	Theoretical	Physical Stress Factors
	Preparation Work	Laboratory work.
6	Theoretical	Physical Stress Factors
	Preparation Work	Laboratory work.
7	Theoretical	Physical Stress Factors
	Preparation Work	Laboratory work.
8	Intermediate Exam	Midterm Exam
9	Theoretical	Chemical Stress Factors
	Preparation Work	Laboratory work.
10	Theoretical	Chemical Stress Factors
	Preparation Work	Laboratory work.
11	Theoretical	Chemical Stress Factors
	Preparation Work	Experimental Study at greenhouse
12	Theoretical	Biotic Stress Factors
	Preparation Work	Power point presentation.
13	Theoretical	Biotic Stress Factors
	Preparation Work	Experimental Study at greenhouse
14	Theoretical	Biotic Stress Factors



14	Preparation Work	Power point presentation.	
15	Theoretical	Biotic Stress Factors	
	Preparation Work	Power point presentation.	
16	Theoretical	Final Examination	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	0 2	
Lecture - Practice	14	0	2	28
Assignment	2	0	10	20
Term Project	2	0	20	40
Laboratory	8	0	2	16
Midterm Examination	1	0	16	16
Final Examination	1	0	32	32
	180			
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 FCTS				

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

- 1 To be able to recognize and classify the concept of stress.
- 2 To be able to recognize the concept of plant under stress.
- To be able to recognize the concept of zero stress. 3
- 4 To be able to recognize and classify the plant responses against environmental stress.
- 5 To learn the stress related protein synthesis, and functions of these proteins under stress conditions.

Programme Outcomes (Field Crops Master)

- To be able to improve and deepen the level of expertise in field crops on the basis of the departments licenses qualifications.
- 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.
- To be able to take responsibility for developing the new approaches and to formulate a solution facing unforeseen complex 6 situations of applications,
- To be able to defend the original opinions in both Turkish and in foreign languages by using these languages and 7 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.
- To be able to maintain and select the appropriate statistical methods within the framework of the study, evaluation of scientific 10 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	2	2	2	3	2
P2	2	3	2	3	2
P3	2	3	2	3	3
P4	2	4	3	3	3
P5	3	4	3	2	3
P6	3	4	3	2	3
P7	3	4	3	2	3
P8	3	4	3	2	4
P9	4	3	4	2	4
P10	4	3	4	2	4

