

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Field Crop Ph	ysiology						
Course Code			Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 8	Workload	200 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course Evaluation of principles of Plant Physiology for Field Crops, plant mechanism and physiological considerations.								
Course Content	Assimilation a climatic change			3 and C4 cro	ps, differentiat	ions, possib	le estimations in glo	obal
Work Placement	N/A							
Planned Learning Activities and Teaching Methods					tion), Experime al Study, Probl		ion, Case Study, Pi	roject
Name of Lecturer(s) Prof. Aydın ÜNAY								

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

Recommended or Required Reading							
1	1. Taiz, L. And Zeiger, E. 1987. Plant Physiology. The Benjamin /Cummings Publishing Company, Inc.						
2	2. Kacar, B., Katkat, V., Öztürk, Ş. 2002. Bitki Fizyolojisi. Vipaş AŞ Yayın No: 74. Bursa.						
3	3. Avcıoğlu, R., Gürel, A. 2000. Bitki Fizyolojisi. EÜZF Ofset Basımevi. Ders Notları: 64/1.						
4	4. Hay, R.K.M., Walker, A.J. 1995, An Introduction to The Physiology of Crop Yield						

Week	Weekly Detailed Course Contents						
1	Theoretical	Plant Canopy and Leaf Area Characteristics					
	Preparation Work	Literature review					
2	Theoretical	Photosynthetic Efficiency: Photosynthesis and Photorespiration					
3	Theoretical	C3 and C4 Photosynthesis					
	Preparation Work	Term paper					
4	Theoretical	Endogenous Factors in Photosynthesis					
	Preparation Work	Presentation and discussion					
5	Theoretical	Environmental Factors in Photosynthesis					
	Preparation Work	Presentation and discussion					
6	Theoretical	Water Stress					
	Preparation Work	Demonstration-Remodelling					
7	Theoretical	Water Use Efficiency					
	Preparation Work	Demonstration-Remodelling					
8	Theoretical	Nutrient Absorption					
9	Intermediate Exam	Midterm exam					
10	Theoretical	Transportation of Water and Nutrient					
11	Theoretical	Dry Matter Analysis					
	Preparation Work	Demonstration-Remodelling					
12	Theoretical	Respiration					
	Preparation Work	Presentation and discussion					
13	Theoretical	Hormones					
	Preparation Work	Presentation and discussion					
14	Theoretical	Seconder Metabolites					
	Preparation Work	Term paper					
15	Theoretical	Stress Physiology					
	Preparation Work	Term Project					



Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	3	3	84		
Assignment	2	13	20	66		
Midterm Examination	1	0	10	10		
Final Examination	1	10	30	40		
	200					
	8					
*25 hour workload is accepted as 1 ECTS						

Learn	ing Outcomes
1	1. To be able to detail and develop the information lin the scope of field crop physiology
2	2. To be able to establish physiological relationships with field crops quality and yield

3. To be able to determine and develop ideas physiologically in complex problems 3

4 4. To be able to establish relationships between physiology and other discipline 5

5. To be able to monitor and transfer current developments in physiology

Programme Outcomes (Plant Protection Master)

To develop knowledge and abilities that gained during undergraduate education 1

2 To gain ability to search and pursue current literature

To gain ability to plan and write projects that help solving problems in field of study. 3

To gain ability to conduct research, analyze data, evaluate research results scientifically and preapare reports and thesis 4 writing.

5 Students will be able to learn and apply the laboratory test and analysis methods

To recognize occupational and ethical responsibility 6

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	3	3	4	4	3
P2	4	4	3	3	4
P3	4	4	5	4	5
P4	4	4	5	4	5
P5	5	5	5	5	5
P6	4	4	4	4	5

