

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Fertilizer Use And Plant Health Relations							
Course Code	ZTO510		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 7	Workload	170 (Hours)	Theory	2	Practice	2	Laboratory	0
fertilization rates and amou			nt diseases-pathogens and some physical and chemical properties of soils, ints. Effects of plant nutrition in terms of phytopatology- entomology. Effects of ful effects of plant diseases-pathogens on plants.					
Course Content Pathogenesis Diagnosis o plants .Mineral nutrition an						nteractions •I	Defence mechanis	sm of
Work Placement								
Planned Learning Activities and Teaching Methods		Explanation Study, Prob			ent, Discussi	on, Case Study, Ir	ndividual	
Name of Lecturer(s)								

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

Reco	mmended or Required Reading
1	Anonymous, 1976. Fertilizer Use and Plant Health. Int.Potash Inst., İzmir,Turkey Pessarakli, M., 1999.Handbook of Plant and Crop Stress. 2nd Ed. Marcel Dekker,NewYork.
2	Börner, H., 1989.Planzenkrönkheiten un Pflanzenscheutz. 6. Auflage.Eugen Ulmer ,Verlag
3	Hess, D., 1988.Pflanzenphsiolgie. 8 Auflage ,Eugen Ulmer ,Verlag
4	Schlösser, E., 1983, Allgemeine Phtopathologie, George Thieme Verlag, Stuttgart, NewYork,

Week	Weekly Detailed Cour	'se Contents			
1	Theoretical	Description of plant diseases and pest damages according to their symposts			
	Preparation Work	Practice and Theory			
2	Theoretical	Inoculum resources, infection types and damage development in plant diseases			
	Preparation Work	Practice and Theory			
3	Theoretical	Host-pathogen interaction in disease development Defence mechanisms against disease and pests in plants			
	Preparation Work	Practice and Theory			
4	Preparation Work	Practice and Theory			
5	Theoretical	The importance of nutrition elements on plant physiology			
	Preparation Work	Practice and Theory			
6	Theoretical	Relationships among rate and form N containing fertilizers and damage degree of plant pathogens and pests			
	Preparation Work	Practice and Theory			
7	Theoretical	Relationships among rate and form P containing fertilizers and damage degree of plant pathogens and pests			
	Preparation Work	Practice and Theory			
8	Intermediate Exam	Midterm Exam			
9	Theoretical	Relationships among rate and form K containing fertilizers and damage degree of plant pathogens and pests			
	Preparation Work	Practice and Theory			
10	Theoretical	Relationships among rate and form Ca containing fertilizers and damage degree of plant pathogens and pests			
	Preparation Work	Practice and Theory			
11	Theoretical	Relationships among rate and form Mg containing fertilizers and damage degree of plant pathogens and pests			
	Preparation Work	Practice and Theory			



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12	Theoretical	Relationships among rate and form of micro elements(Fe, Mn, Zn, B and Cu) containing fertilizers and damage degree of plant pathogens and pests	
	Preparation Work	Practice and Theory	
13	Theoretical	Conclusions	
	Preparation Work	Practice and Theory	
14	Theoretical	papers and presentation	
	Preparation Work	Practice and Theory	
15	Theoretical	papers and presentation	
	Preparation Work	Practice Exam	
16	Final Exam	FİNAL EXAM	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	2	0	25	50
Term Project	1	0	14	14
Midterm Examination	1	0	20	20
Final Examination	1	0	30	30
Total Workload (Hours)				
[Total Workload (Hours) / 25*] = ECTS				
*25 hour workload is accepted as 1 ECTS				

Learn	Learning Outcomes					
1	To be able to comprehend the plant disease and pathogenesis					
2	To be able to comprehend the host-pathogen relations					
3	To be able to comprehend defence mechanisms of plants					
4	To be able to evaluate relations between macro elements (N,P,K,Ca,Mg and S) nutrition and plant health					
5	To be able to evaluate relations between micro elements (Fe,Zn;Mn,Cu,B and Mo) nutrition and plant disease					

Progr	amme 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	4
P2	4	4	4	4	4
P3	4	4	4	4	4
P4	4	4	4	4	4
P5	4	4	4	4	4
P6	4	4	4	4	4
P7	4	4	4	4	4
P8	4	4	4	4	4
P9	4	4	4	4	4



P10 4 4 4 4 4 4

