



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Recent Advances In Soil Science And Plant Nutrition II							
Course Code		ZTO619		Couese Level		Third Cycle (Doctorate Degree)			
ECTS Credit	8	Workload	200 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Discussing the recent research articles and used technology printed in most famous national and international scientific journals concerning on soil science and plant nutrition. To give knowledge and skills on interpreting scientific researches about Soil Science and Plant Nutrition.							
Course Content		To be able to analyze the scientific studies in recent years by analyzing the literature and the use of resources, to be able to solve the problems in the field of soil science and plant nutrition							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Prof. Gönül AYDIN							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Gardiner, D.T., Miller, R.W. 2008. Soils in our environment, 11th edit. Pearson/Prentice Hall, Upper Saddle River, New Jersey, USA. 600p.
2	Magdoff, F. and H. Van Es. 2009. Building soils for better crops: sustainable soil management. 3rd edition. SARE Handbook series no: 10, USA. 294p.
3	Other scientific articles on web of Science-WOS

Week	Weekly Detailed Course Contents	
1	Theoretical	How to follow the literature? Use of resources on the subject.
2	Theoretical	Examining and discussing a scientific paper about soil physics published recently-1
3	Theoretical	Examining and discussing a scientific paper about soil physics published recently- 2
4	Theoretical	Examining and discussing a scientific paper about remote sensing published recently-1
5	Theoretical	Examining and discussing a scientific paper about remote sensing published recently-2
6	Theoretical	Examining and discussing a scientific paper about soil microbiology published recently-1
7	Theoretical	Examining and discussing a scientific paper about soil microbiology published recently-2
8	Intermediate Exam	Midterm Exam
9	Theoretical	Examining and discussing a scientific paper about fertilizing in field crops published recently-1
10	Theoretical	Examining and discussing a scientific paper about fertilizing in field crops published recently-2
11	Theoretical	Examining and discussing a scientific paper about stress physiology published recently-1
12	Theoretical	Examining and discussing a scientific paper about stress physiology published recently-2
13	Theoretical	Examining and discussing a scientific paper about fertilizing in horticulture published recently-1
14	Theoretical	Examining and discussing a scientific paper about fertilizing in horticulture published recently-2
15	Theoretical	Examining and discussing a scientific paper about fertilizing in horticulture published recently-3
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	34	68
Term Project	1	0	50	50
Midterm Examination	1	0	14	14



Final Examination	1	0	40	40
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To learn scientific developments in Soil Science and Plant Nutrition in a worldwide perspective
2	To examine the scientific researches on Soil Science and Plant Nutrition topics in the country and in the World. Being to be able to read flow diagrams of processes in fertilizer production
3	Understanding the current subjects on soil science and Plant Nutrition
4	To evaluate the new studies in Soil Science and Plant Nutrition
5	To learn literature review and resource usage

Programme Outcomes (Soil Doctorate)

1	To be able to apply the theoretical information achieved during the graduate study
2	To be able to collect data by scientific means, to evaluate and interpret
3	To be able to update himself continuously
4	To be able to assess the convenient analytical methods during the process of the scientific study
5	To be able to put forth solutions to soil use and plant development

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	3	4	4	4
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5

