

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Plant Nutrition and Some of the Relations Between Quality Items								
Course Code ZTO602		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit 8	Workload 1	196 <i>(Hours)</i>	Theory	2	Practice	2	Laboratory	0
product quality. The field cr peaches, apples, olives, etc			amining the effects of the amounts of organic and chemical fertilizer on rops (cereals, anchor and arbitrary crops), fruit trees (citrus, apricots, c.) vegetables (watermelon, strawberries, tomatoes, eggplant, etc) and tionship between nutrition and quality criteria.					
Course Content What is the Quality? The introduced compounds, mineral elements				ts on carbohyo	drates, prote	ins, organic nitrog	en	
Work Placement								
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)								

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

Reco	ommended or Required Reading
1	B. Kacar ve V. Katkat. 2008 Bitki Besleme NOBEL Yayınları
2	B. Kacar ve V. Katkat. 2007 Gübreler ve gübreleme NOBEL Yayınları
3	M. Aktaş. 1991. Bitki Besleme ve Toprak Verimliliği. AÜ. Z.F. Yayını: 1202.ANKARA
4	D. Anac and P. Martin-Prevel 1999. Improved crop quality of nutrient management ISBN: 978-0-7923-5850-3- ISBN-10: 0-7923-5850-3
5	Joseph J. Jen, 1989. Quality factors of fruits and vegetables: chemistry and technology ISBN: 978-0-8412-1663-1-ISBN-10: 0-8412-1663-0

Week	<b>Weekly Detailed Cour</b>	se Contents
1	Theoretical	Organic fertilizer and usage
	Preparation Work	Making of compost
2	Theoretical	Chemical fertilizer and usage
	Preparation Work	How to make a sample for quality?
3	Theoretical	Nitrogen metebolism and quality
	Preparation Work	Measurement of the size of fruit and vegetables
4	Theoretical	Phosphorus, potassium and quality
	Preparation Work	Determination of dry matter
5	Theoretical	What are the quality criteria
	Preparation Work	Determination of hardness
6	Theoretical	Nutrition and quality criteria of field crops
	Preparation Work	Fertilizer account
7	Theoretical	Nutrition and quality criteria of field crops
	Preparation Work	Determination of protein
8	Intermediate Exam	Midterm Exam
9	Theoretical	Relationship between nutrition and quality criteria of fruit trees (citrus, apricots, peaches, apples, olives, etc.)
	Preparation Work	Determination of carbohydrate
10	Theoretical	Relationship between nutrition and quality criteria of fruit trees (citrus, apricots, peaches, apples, olives, etc.)
	Preparation Work	Determination of carbohydrate
11	Theoretical	Relationship between nutrition and quality criteria of vegetables (watermelon, strawberries, tomatoes, eggplant, etc) and quality criteria



11	Preparation Work	Determination of starch
12	Preparation Work	Determination of oil
13	Theoretical	New approaches on the balanced nutrition
	Preparation Work	Determination of oil
14	Theoretical	Presentations of Homework
15	Theoretical	Presentations of Homework
	Preparation Work	practice exam
16	Final Exam	Final Exam

Quantity	Preparation Duration		Total Workload	
14	0	2	28	
14	0	2	28	
2	0	15	30	
1	0	30	30	
1	0	30	30	
1	0	50	50	
Total Workload (Hours)				
[Total Workload (Hours) / 25*] = <b>ECTS</b>				
	14 14	14 0 14 0 2 0 1 0 1 0 1 0	14 0 2   14 0 2   2 0 15   1 0 30   1 0 30   1 0 50   Total Workload (Hours)	

Learning Outcomes					
1	Able to recognize the quality parameters of culture plants.				
2	Able to compare fertilization and plant factors.				
3	Able to evaluate plant nutrition and the quality of their product.				
4	Able to understanding the importance of fertilization on healthy plants.				
5	Able to understanding the fundamental principles of plant nutrition				

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 HighL1L2L3L4L5P15555

P1	5	5	5	5	5
P2	2	3	4	4	3
P3	3	4	4	4	3
P4	2	2	5	2	3
P5	2	2	4	5	3

