

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title							
Course Code	ORT226	Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 3	Workload 74 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Applied to soilless culture ty	pes and all o	cultural pra	ctices are taug	ht theoreticall	y and practically.	
Objectives of the Course Course Content Description of soilless culture. Reasons of passing to soilless culture. Reasons of soilless culture solutions, water, macro nutrient elements, and chemical resources in soilless culture. Symptoms of deficiency and excessive on macro nutrient elements. Micro nutrient elements. Chemical resources of soilless culture. Symptoms of deficiency and excessive on micro nutrient elements. Problems in preparing solutions. Desirable characteristics of nutrient solutions (pH, total salt consantration, temper aleratin). Feeding types of nutrient solutions to plants (static, batch flow, continue flow, spreading plants). Nutrient solution tanks. Control of diseases and harmfulness. Midterm. Types of culture. Passing cultures. What is solid medium? Desirable characteristics. Organic and in Types of solid culture (bed culture, por culture). Types of solid culture (sausage culture), we (static culture, flowing water culture). Water cultures (hyponica, aeroponic).					less culture. Nutri ulture. Symptoms Chemical resourd preparing of nut ation, temperature te flow, spraying, n. Types of soilles anic and inorgani	ient sof ces. rient e, ss ic media.	
Work Placement	N/A						
Planned Learning Activities	and Teaching Methods	Explanation	(Presenta	tion), Demonst	tration, Discus	sion, Individual S	Study
Name of Lecturer(s)	Ins. Nuri KİLİMCİ						

Assessment Methods and Criteria						
Method	Quantity Percentage (%					
Midterm Examination		1	40			
Final Examination		1	70			

Recommended or Required Reading

- 1 Gül, A 2008. soilless agriculture, Hasat Publishing, İZMİR.
- 2 Sevgican, A. 2002. Greenhouse Vegetables (soilless agriculture), Ege University. Faculty of Agriculture Publications:528,İzmir

Week	Weekly Detailed Course Contents					
1	Theoretical	Description of soilless culture. Reasons of passing to soilless culture. Reasons of soilless culture using in greenhouses.				
2	Theoretical	History of soilless culture. Advantages and disadvantages of soilless culture.				
3	Theoretical	Nutrient solutions, water, macro nutrient elements, and chemical resources in soilless culture.				
4	Theoretical	Symptoms of deficiency and excessive on macro nutrient elements. Micro nutrient elements. Chemical resources.				
5	Theoretical	Symptoms of deficiency and excessive on micro nutrient elements. Problems in preparing of nutrient solutions.				
6	Theoretical	Desirable characteristics of nutrient solutions (pH, total salt consantration, temperature, aeratin).				
7	Theoretical	Feeding types of nutrient solutions to plants (static, batch flow, continue flow, spraying, dripping).				
8	Theoretical	Midterm exam				
9	Theoretical	Nutrient solution tanks. Control of diseases and harmfulness.				
10	Theoretical	Types of soilless culture. Passing cultures.				
11	Theoretical	What is solid medium? Desirable characteristics. Organic and inorganic media.				
12	Theoretical	Types of solid culture (bed culture, por culture).				
13	Theoretical	Types of solid culture (sausage culture), water culture (static culture, flowing water culture).				
14	Theoretical	Water cultures (hyponica, aeroponic)				
15	Theoretical	An overview				

Workload Calculation						
Activity	Quantity Preparation		Duration	Total Workload		
Lecture - Theory	14	2	2	56		
Midterm Examination	1	8	1	9		



Final Examination	1		8	1	9
Total Workload (Hours)				74	
[Total Workload (Hours) / 25*] = ECTS					3
*25 hour workload is accepted as 1 ECTS					

Learn	ning Outcomes
1	Knows the differences between soil and soilless cultivation
2	The development of soilless culture, soilless culture learn the advantages and disadvantages.
3	Knows the properties of growing environments used in soilless culture
4	Knows the plant nutrition elements and methods used in soilless cultivation
5	Builds the relationship between the breeding environment and nutrition and produces a quality, economic and environmentally friendly production

Programme Outcomes (Organic Agriculture)								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P7	4	4	4	4	4
P8	4	4	4	4	4
P9	4	4	4	4	4
P10	4	4	4	4	4
P11	5	5	5	5	5

