

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Computer Application in Culturtechnique								
Course Code	ZTY522	Couse Lev	Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 8	Workload 200	(Hours) Theory	2	Practice	2	Laboratory	0	
Objectives of the Course Introduction of computer programs used in culturtechnique, teaching the use and intreprete the outputs of the software								
Course Content	ion scheduling and r programming langua age problems, prepa	ages, datab	ase formation a	nd manage	ment on solving th			
Work Placement	N/A							
Planned Learning Activities			ation), Experime Iem Solving	ent, Discuss	ion, Project Based	Study,		
Name of Lecturer(s)								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Sönmez, N. Balaban, A., Benli, E. Kültürteknik, AÜZF Yayınları, No: 911				
2	Tülücü, K. 1997. Optimizasyon. ÇÜZF Yayınları. No: 189				
3	Crop evapotranspiration; Guidelines for computing crop water requirements. Irrigation and Drainage Paper No. 56				

Week	Weekly Detailed Course Contents			
1	Theoretical	Introduction of computer programs used in culturtechnique		
2	Theoretical	Criteria in selecting the proper software		
3	Theoretical	Software used in irrigation scheduling and management		
4	Theoretical	Climwat, CROPWAT software		
5	Theoretical	IRSIS, AQUACROP software		
6	Theoretical	General structure of Windows based programs		
7	Theoretical	Database formation in irrigation and drainage problems		
8	Theoretical	Using the available database in irrigation and drainage problem solution		
9	Intermediate Exam	Mid Term Exam		
10	Theoretical	Algorithms preparation in solving problems		
11	Theoretical	Introduction to land leveling programs and basic criteria		
12	Theoretical	Land leveling projects and application		
13	Theoretical	Computer applications in production structures and the structure of current software for automation		
14	Theoretical	Automation in agricultural production structures		
15	Theoretical	General Review		
16	Final Exam	Final Exam		

Workload Calculation

Quantity	Preparation	Duration	Total Workload	
14	5	2	98	
14	4	2	84	
1	6	2	8	
1	8	2	10	
Total Workload (Hours)				
[Total Workload (Hours) / 25*] = ECTS				
	14	14 5 14 4 1 6 1 8	14 5 2 14 4 2 1 6 2 1 8 2 Total Workload (Hours)	

*25 hour workload is accepted as 1 ECTS



Learning Outcomes					
1	The ability to use and interpret the software on irrigation management				
2	2 The ability to use irrigation management software on field and basin scale				
3					
4					
5	The ability to use and interpret some specific software				

Programme Outcomes (Agricultural Structures and Irrigation Master)

1	Ability to use, evaluate and improve the k	owledge gained from field of study at an expert level

- 2 Ability to reach necessary the knowledge
- 3 To able to conduct scientific studies (research) related to the field
- 4 Ability to consider academical and ethical values the studies
- 5 Ability to improve editing method and evaluate the results of researches
- 6 The studies, the ability to reach result and application, develop new approaches
- 7 A topic in the field of written, verbally and visually as the ability to express
- 8 Effective use of Turkish language and ability to communicate in a foreign language both written and verbal

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	5	5	5	5	
P3	5	5	5	5	5	
P4	5	5	5	5	5	
P5	5	5	5	5	5	
P6	5	5	5	5	5	
P7	5	5	5	5	5	
P8	5	5	5	5	5	

