



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Irrigation of Agricultural Crops							
Course Code		ZTY532		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Basic principles of irrigation and irrigation scheduling of culture crops, description of culture crops, Information about the climate and soil characteristics of some culture crops,Information about the nutrients and salt tolerance of some culture crops, Information about kc,irrigation water requirements, evapotranspiration, irrigation programmes and methods, yield response to water							
Course Content		Basic principles of irrigation and irrigation scheduling of culture crops, Irrigation of pastura, forage, cereal fiber, sugarbeets, oil, fruits, grapes, and etc. crops							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Prof. Necdet DAĞDELEN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Güngör, Y., Erözel, A.Z., Yıldırım O., 2004. Irrigation (Sulama), Ankara Üniversitesi Ziraat Fakültesi Tarımsal Yapılar ve Sulama Bölümü, Yayın No: 1540, 493, Ankara
2	Kanber, R., 1999. Irrigation (Sulama), Çukurova Üniversitesi Ziraat Fakültesi Yayınları 174, Ders Kitapları Yayın No: A-52, Adana
3	Yield Response to Water (FAO 33, Irrigation and Drainage Paper)

Week	Weekly Detailed Course Contents	
1	Theoretical	Properties of plants regarding to irrigation and their classifications
2	Theoretical	Irrigation scheduling and main principles
3	Theoretical	Irrigation methods
4	Theoretical	Summer and winter cereals
5	Theoretical	Industrial crops-1
6	Theoretical	Industrial crops-2
7	Theoretical	Industrial crops and irrigation techniques-1
8	Theoretical	Industrial crops and irrigation techniques-2
9	Intermediate Exam	Midterm exam
10	Theoretical	Range&Meadow and Forage Crops and irrigation
11	Theoretical	Vegetables and industrial crops irrigation techniques-1
12	Theoretical	Vegetables and industrial crops irrigation techniques-2
13	Theoretical	Irrigation of Leaf-Shed Fruit Trees
14	Theoretical	Irrigation of Non-Leaf-Shed Fruit Trees
15	Theoretical	Grape irrigation and design techniques
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	5	2	98
Lecture - Practice	14	4	2	84
Midterm Examination	1	6	2	8



Final Examination	1	8	2	10
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Identifying some culture crops
2	Understanding the climate, soil characteristics, nutrients and salt tolerance of some culture crops
3	To be able to identify irrigation water requirements, evapotranspiration, irrigation programmes and methods,
4	Determine irrigation water stress level and yield response factor of culture crops and analyze water-yield relations
5	To be able to identify plant growth stages and periods and determine plant growth coefficients (kc)

Programme Outcomes (Agricultural Structures and Irrigation Master)

1	Ability to use, evaluate and improve the knowledge 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	4	5	5	4	5
P2	5	5	5	5	5
P3	4	4	4	4	4
P4	4	5	4	4	5
P5	5	5	5	5	5
P6	3	4	3	3	4
P7	5	5	5	5	5
P8	5	5	5	5	5

