



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Agricultural Irrigation and Drainage							
Course Code		TİS117		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	78 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		The aim of this course is to teach, irrigation, soil-water-climate relationship, irrigation methods, drainage, drainage etudes and drainage methods.							
Course Content		Definiton and importance of irrigation, benefits of irrigation, history of irrigation, soil-water-atmosphere relations, irrigation methods, drainage, drainage etudes and methods.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Güngör, Y., Erözel, A.Z., Yıldırım O., 2004. "Sulama", Ankara Üniversitesi Ziraat Fakültesi Tarımsal Yapılar ve Sulama Bölümü, Yayın No: 1540, Ders Kitabı: 493, Ankara
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Week	Weekly Detailed Course Contents	
1	Theoretical	Definiton and importance of irrigation
2	Theoretical	Benefits of irrigation, irrigation systems
3	Theoretical	Soil-plant-water relations
4	Theoretical	Soil moisture and determination of soil moisture
5	Theoretical	Infiltration
6	Theoretical	Crop components, effective rain, efficiancy of irrigation, irrigation water requirements and determining the capacity of irrigation systems
7	Theoretical	Crop components, effective rain, efficiancy of irrigation, irrigation water requirements and determining the capacity of irrigation systems
8	Intermediate Exam	Midterm
9	Theoretical	Irrigation methods, Choosing appropriate irrigation method
10	Theoretical	Surface irrigation methods, furrow and basin irrigation methods
11	Theoretical	Border-strip irrigation method
12	Theoretical	Pressurized irrigation methods, drip irrigation
13	Theoretical	Sprinkler irrigation methods
14	Theoretical	Definition and importance of drainage, drainage etudes, drainage methods
15	Theoretical	Definition and importance of drainage, drainage etudes, drainage methods
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Midterm Examination	1	6	1	7
Final Examination	1	14	1	15
Total Workload (Hours)				78
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend basic concepts of irrigation
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2	To be able to comprehend soil-water-atmosphere relationship
3	To be able to comprehend necessary information about irrigation methods
4	To be able to identify drainage, basic concepts of drainage etudes and drainage methods
5	Produce solutions to irrigation problems

Programme Outcomes (Agricultural Management)

1	To be able to use basic knowledge about agricultural, the struggle to preserve and marketing
2	To be able to use theoretical and practical knowledge gained in the basic fields of farm management
3	To be able to take duties and responsibilities at all levels of the agricultural business management
4	To be able to comprehend economic problems of agriculture, have the abilities of data collection, analysis, interpretation and project based solution production
5	Ability to predict and interpret the potential effects of national and international economical and political developments on Turkish agricultural sector
6	Having necessary skills for management and planning of agricultural and rural development projects
7	To be able to collaborate with stakeholders at producer and institutional levels to improve communication and education
8	To be able to use computer programs and technology to an adequate level required by business practices
9	To be able to comprehend knowledge of law that is necessary for farm management field and to be able to use this information
10	To be able to apply professional, moral values and sense of social responsibility
11	To be able to work independently in the major by communicating effectively through expressing ideas orally and written.

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	3	4	3	5
P2	5	5	5	5	5
P3	4	4	4	4	4
P4	5	5	5	5	4
P5	3	3	3	3	4
P6	5	5	5	5	3
P7	4	4	4	4	4
P8	4	5	5	5	5
P9	2	2	2	2	2
P10	3	3	3	3	5
P11	4	4	4	4	4

