



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Evaluation of Farm Irrigation Systems							
Course Code		ZTY616		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Course Objectives Teaching the techniques for irrigation systems evaluation for evaluating actual operation and management, and for determining the potential for more economical and efficient operation.							
Course Content		Course Content Basic concepts and terms, evaluation techniques for farm irrigation systems: evaluation of sprinkler and trickle irrigation systems, evaluation of furrow, border and border-strip irrigation							
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	60

Recommended or Required Reading

1	Merriam, J. L. and J. Keller, 1978. "Farm Irrigation System Evaluation: A Guide for Management". Department of Agricultural and Irrigation Engineering, Utah State University, Logan, Utah, USA.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Methods of system evaluation
2	Theoretical	Basic concepts and definitions
3	Theoretical	The need for system evaluation
4	Theoretical	Uniformity and irrigation efficiency
5	Theoretical	Evaluation of basin irrigation systems
6	Theoretical	Evaluation of border-strip irrigation systems
7	Theoretical	Evaluation of furrow irrigation systems
8	Theoretical	Evaluation of furrow irrigation systems
9	Intermediate Exam	Midterm exam
10	Theoretical	Evaluation of pressurized irrigation systems
11	Theoretical	Evaluation of drip irrigation systems
12	Theoretical	Evaluation of sprinkler irrigation systems
13	Theoretical	Evaluation of surge and LEPA irrigation systems
14	Theoretical	Problem solving
15	Theoretical	Problem solving
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Lecture - Practice	14	2	2	56
Midterm Examination	1	8	2	10
Final Examination	1	12	2	14
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Basic concepts and definitions; the need for system evaluation
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2	Evaluation of surface irrigation systems
3	Evaluation of pressurize irrigation systems
4	Interpretation of experimental results and preparation of results
5	Monitoring and evaluation of recent developments in irrigation engineering

Programme Outcomes (Agricultural Structures and Irrigation Doctorate)

1	Ability to analyze, synthesize and evaluate different forms of scientific knowledge in the field of studies
2	Approach to information systematically, and gain skills related to their field the research methods
3	Innovative science to develop a scientific method or a method that is known to practice in their field
4	Ability to organize and manage the project and advanced scientific research
5	Advanced technologies, find solutions to engineering problems taking advantage of the software and model approaches
6	Creative, unbiased and critical thinking
7	A topic in the field of written, verbally and visually as the ability to express
8	Ability to publish in refereed journals National and international the results of studies

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	4	5
P2	5	5	5	5	5
P3	4	4	4	4	4
P4	5	5	4	4	5
P5	5	5	5	5	5
P6	3	4	3	4	4
P7	5	5	5	5	5
P8	5	5	5	5	5

