



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Evaluation of Land Reclamation Studies							
Course Code		ZTY604		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course is given about establishing salinity and sodicty soils and soil reclamation technical and methods.							
Course Content		Establishing salinity and sodicity reclamation tests, Choosing test place, Chemical reclamation substance application, Leaching , Experimental data evaluation , Deriving saline leaching equalities and curves, obtaining sodicity and gypsum amount curves , Determining leaching time, Deriving accumulative infiltration equalities and curves , Affects of gypsum amount to infiltration velocity							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, 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	Yılmaz, T., "Barren Land Reclamation and Experimental Evaluation of Data Transferring Applications (Çorak Toprak Islahında Deneyisel Verilerin Değerlendirilmesi ve Uygulamaya Aktarılması)", Köy İşleri ve Kooperatifleri Bakanlığı Topraksu Genel Müdürlüğü Yayınları, Menemen-İzmir, (1982)
2	U.S. Salinity Laboratory Staff, "Diagnosis and Improvement of Saline and Alkali Soils", Agricultural Handbook No:60.
3	Eröz Z. Drainage and Land Reclamation (Drenaj ve Arazi Islahı). Ankara Üniversitesi Yayınları.

Week	Weekly Detailed Course Contents	
1	Theoretical	Salinity and sodicity
2	Theoretical	Properties of saline and sodium soils
3	Theoretical	Breeding experiment techniques used in saline and sodium soils
4	Theoretical	Breeding experiment techniques used in saline and sodium soils
5	Theoretical	Experimental patterns and characteristics of breeding techniques used in saline and sodium soils
6	Theoretical	Experimental patterns and characteristics of breeding techniques used in saline and sodium soils
7	Theoretical	Factorial experimental designs
8	Intermediate Exam	Midterm exam
9	Theoretical	Two-factor experimental designs
10	Theoretical	Multi-factor experimental designs
11	Theoretical	Statistical analysis and comparison of the results obtained
12	Theoretical	Statistical analysis and comparison of the results obtained
13	Theoretical	Statistical analysis and comparison of the results obtained
14	Theoretical	Preparation of final reports
15	Theoretical	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	Knowledge about salinity and sodicity soils
2	Experimentation about saline and sodic soils
3	Statistical analysis of data
4	To know amendments
5	Interpretation of results

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	4	5	1	5
P2	5	5	5	2	4
P3	4	4	5	4	3
P4	5	5	5	2	3
P5	5	4	4	3	3
P6	5	4	4	2	4
P7	4	4	5	3	4
P8	5	4	4	2	5

