

#### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Special Problems in Soil Physics and the Relation With Yield							
Course Code	ZTO613		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit 7	Workload	172 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course Detailed information about			soil structure and yield relationships					
Course Content	the factors aff	ecting the stal soils, methods	oility of the fo for determin	rmation of ing the sta	soil aggregate	s, chemical	I measurement me soil stabilizers and ze distribution of a	d their
Work Placement								
Planned Learning Activities and Teaching Methods		Methods	Explanation (Presentation), Experiment, 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 Soil colloids and their associations in aggregates/ Marcel F. De Boodt, ed. Michael H. B. Hayes, ed. Adrien Herbillon. New York Plenum.1990.

Week	Weekly Detailed Cours	e Contents				
1	Theoretical	Soil physical productivity				
2	Theoretical	Physical productivity reduction (degradation) and the influencing factors				
3	Theoretical	Physical productivity reduction (degradation) and the influencing factors				
4	Theoretical	Soil structure formation and the stability				
5	Theoretical	Methods for determination of aggregate stability				
6	Theoretical	Methods for determination of aggregate stability				
7	Theoretical	Chemical soil stabilizers and their availability in soils				
8	Intermediate Exam	Midterm exam				
9	Theoretical	Chemical soil stabilizers and their availability in soils				
10	Theoretical	Methods for determining the aggregate size distribution				
11	Theoretical	Methods for determining the aggregate size distribution				
12	Theoretical	Soil structure and yield relationships				
13	Theoretical	The structure and yield relationships				
14	Theoretical	The structure and yield relationships				
15	Theoretical	The structure and yield relationships				
16	Final Exam	Final exam				

### **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	2	0	15	30
Term Project	1	0	25	25
Midterm Examination	1	0	30	30
Final Examination	1	0	45	45
	172			
	7			
*25 hour workload is accepted as 1 ECTS				

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Learning Outcomes					
1	Physical productivity.				
2	The ability to assess the physical efficiency of the soil properties.				
3	The ability to analyse the soil aggregate sizes and the soil aggregate stability.				
4	The ability of implementation of the measurement methods.				
5	The ability to interpret the soil structure and yield relationships.				

## Programme Outcomes (Soil Doctorate)

1	To be able to apply the theoretical information achieved during the graduate study
2	To be able to collect data by scientific means, to evaluate and interpret
3	To be able to update himself continuously
4	To be able to assess the convenient analytical methods during the process of the scientific study
5	To be able to put forth solutions to soil use and plant development

# 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	2	4	4	3
P2	2	4	4	5	4
P3	1	3	2	3	3
P4	4	5	5	5	5
P5	5	5	4	3	5

