

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	e Title Soil and Water Conservation		n					
	Soli and water Conservation							
Course Code	TBB306		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit 4	Workload 100 (Hours)		Theory	2	Practice	2	Laboratory	0
Objectives of the Course Informing students about the relationships between soil and water to make them understand about the importance of the protection of water resources from a point of agricultural view.				out the				
Course Content Soil protection and environment, management, physical methods, splash erosion, surface erosion, rerosion prediction models, water			nods, erosio sion, rill ero	on mechanic sion, gully e	s, fragmentations, fragmentations, wind er	on, transpor osion, erosi	t and deposition polion hazard evaluat	rocesses,
Work Placement N/A								
Planned Learning Activities and Teaching Methods		Explanation	n (Presenta	tion), Discussion	on, 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 Taysun, A., 1989. Toprak ve Su Korunumu. E. Ü. Zir. Fak. Yay. No: 92-III.
- 2 Çanga, M. R., 1996. Toprak ve Su Koruma. A. Ü. Zir. Fak. Yayınları No:1386 Ders Kitabı No:400, Ankara.

Week	Weekly Detailed Cour	se Contents			
1	Theoretical	Soil conservation and land use characteristics of soils in Turkey; Turkey's general condition of the land existence.			
	Practice	Laboratory presentation.			
2	Theoretical	Land capability classification, the capability classifications according to Turkey's land existence.			
	Practice	Laboratory work and evaluation.			
3	Theoretical	The potential water resources of Turkey.			
	Practice	Laboratory work and evaluation.			
4	Theoretical	Soil erosion; water erosion, the factors which affect the water erosion.			
	Practice	Laboratory work and evaluation.			
5	Theoretical	The types of water erosion.			
	Practice	Laboratory work and evaluation.			
6	Theoretical	How to calculate the surface runoff.			
	Practice	Laboratory work and evaluation.			
7	Theoretical	The determination of soil loss caused by water erosion.			
	Practice	Laboratory work and evaluation.			
8	Intermediate Exam	Midterm exam.			
9	Theoretical	Precautions against water erosion; cultural precautions.			
	Practice	Laboratory work and evaluation.			
10	Theoretical	Mechanical precautions against water erosion.			
	Practice	Laboratory work and evaluation.			
11	Theoretical	Terracing; planning terrace systems.			
	Practice	Laboratory work and evaluation.			
12	Theoretical	Planning terrace systems.			
	Practice	Laboratory work and evaluation.			
13	Theoretical	Wind erosion; factors which affect wind erosion, wind erosion phases.			
	Practice	Laboratory work and evaluation.			
14	Theoretical	Wind erosion, wind erosion classification in connection with the violence degree.			
	Practice	Laboratory work and evaluation.			



15	Theoretical	How to control the wind erosion.	
	Practice	Practice exam.	
16	Final Exam	Final exam.	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Midterm Examination	1	0	20	20
Final Examination	1	0	24	24
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learn	ing Outcomes
1	To be able to design soil and water conservation structures.
2	To be able to identify the problems of agricultural lands.
3	To be able to determine precautions to be taken against water erosion.
4	To be able to determine the problems of soil and water resources related to sustainable usage.
5	To be able to explain engineering implementations in order to take precautions against the soil and water resources.

