

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basin Management							
Course Code		ZTO604		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	8	Workload	202 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of t	he Course		Soils of Turkey, soil and land management at the basin level, to inform students about sustainable agriculture in terms of agricultural production.						
Course Conte	water econom management,	nservation, wa ces planning,	atershed u soil compa	nits and eleme action, soil exh	nts, watersł austion, lan	es related to the di ned planning and d management of	-		
		soils, soil tillag			ig agriculti	ural practices a	nd their neo	gative impact on la	
Work Placeme	nt				ig agriculti	ural practices a	nd their neg		
			nd ecological a	agriculture.		ural practices a tion), Discussic		gative impact on la	

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.
3	Newson, M. (1997) Land, Water and Development: Sustainable Management of River Basin Systems. London, Routledge, UK.

Week	Weekly Detailed Cour	se Contents			
1	Theoretical	General information on basin management, yield-moisture and yield-plant nutrient relations			
	Preparation Work	Literature review			
2	Theoretical	Overview of the territory of Turkey as element of land management			
	Preparation Work	Literature review			
3	Theoretical	Soil mellowness; soil mellowness in soil consistency, soil physical situation in terms of soil mellowness, soil mellowness measurements.			
	Preparation Work	Literature review			
4	Theoretical	Soil tillage; the aims of soil tillage			
	Preparation Work	Literature review			
5	Theoretical	Seed bed preparation; ideal qualities of a seed bed, cultivation for the seed bed preparation			
	Preparation Work	Literature review			
6	Theoretical	Cultivation; the aims of cultivation			
	Preparation Work	Literature review			
7	Theoretical	The compaction problem in tillage			
	Preparation Work	Literature review			
8	Intermediate Exam	Midterm exam			
9	Theoretical	Soil tillage tools			
	Preparation Work	Literature review			
10	Theoretical	Semi-arid soil management in our regions and the water conservation and crop production			
	Preparation Work	Literature review			
11	Theoretical	Soil exhaustion			
	Preparation Work	Literature review			
12	Theoretical	Sustainable agriculture			
	Preparation Work	Literature review			
13	Theoretical	Sustainable land management			
	Preparation Work	Literature review			



14	Theoretical	The benefits of irrigation development and implementation of land consolidation projects			
	Preparation Work	Literature review			
15	Theoretical	roblematic soils in terms of agricultural production, saline and alkaline soil management			
	Preparation Work	Literature review			
16	Final Exam	Final exam			

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	3	42	
Assignment	2	0	20	40	
Reading	6	0	10	60	
Midterm Examination	1	0	25	25	
Final Examination	1	0	35	35	
		Тс	otal Workload (Hours)	202	
[Total Workload (Hours) / 25*] = ECTS 8					

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Information about soils of Turkey
2	Methods of soil conservation practices and planning
3	The most appropriate ways to apply the cultivation techniques
4	Practicing sustainable agriculture techniques in the field
5	Searching literature about subject

Programme Outcomes (Soil Doctorate)

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

