



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Soil Science							
Course Code		TAB104		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	6	Workload	100 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course, is to teach to students defining soil formation and rocks, minerals, elements in soi,l understanding relationships among soil physical, chemical and biological properties.							
Course Content		Soil elements and minerals, soil formation, soil morphology, physical, chemical and biological properties of soil, soil organic matter, soil erosion and conservation.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, 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	AYDIN M. Ve KILIÇ Ş. 2010 Toprak Bilimi ISBN : 978-605-395-378-4
2	AKALAN İ. 1988 Toprak Bilgisi. Ankara Üniversitesi Ziraat Fakültesi Yayın No: 1058 Ders Kitabı: 309 Ankara

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction and soil definition
	Practice	field work
2	Theoretical	Soil elements and minerals
	Practice	introduction of different minerals in the soil
3	Theoretical	Igneous, sedimentary and metamorphic rocks
	Practice	Introduction of different rock types
4	Theoretical	Soil formation
	Practice	Examination of the soil profile
5	Theoretical	Soil morphology and profile
	Practice	Examination of soil profile horizons
6	Theoretical	Physical properties of soil
	Practice	soil sampling
7	Theoretical	Chemical properties of soil
	Practice	soil sampling
8	Intermediate Exam	Midterm Exam
9	Theoretical	Soil organisms
	Practice	soil analysis
10	Theoretical	Soil organic matter
	Practice	soil analysis
11	Theoretical	Soil erosion and conservation
	Practice	soil analysis
12	Theoretical	Soil classification
	Practice	soil analysis
13	Theoretical	Soil using
	Practice	soil analysis
14	Theoretical	Soil-environment relationships
	Practice	soil analysis



15	Theoretical	General Again
	Practice	soil analysis

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	10	0	0	0
Laboratory	5	2	1	15
Land Work	1	10	1	11
Midterm Examination	1	7	1	8
Final Examination	1	9	1	10
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To be able to define soil formation and soil morphology
2	To be able to define soil physical properties and connected with soil fertility
3	To be able to define soil chemical properties and connected with soil fertility
4	To be able to define soil biological properties and connected with soil fertility
5	To be able to explain the causes of soil erosion and precaution type to be taken against water erosion,

