

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Soil Knowledge and Analysis			s					
Course Code	LBT213		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 4 Workload 100 (Hou		00 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course The aim of this course is to enable students to recognize soil formation, rocks and minerals in the and the elements that compose them, and to establish relationships between the physical, chemic biological properties of the soil. To provide the necessary analysis and interpretation of the analyst reveal the physical and chemical properties of the soil.				nical and				
Course Content Soil elements and minerals properties of soil, organic n in determining the fertility cerrors and minimization of productivity analysis			atter of soil inditions of	, soil erosion the soils, iss	and conserva sues to be cons	ation. Compari sidered in the	son of the metho analysis, source:	ods used s of
Work Placement N/A								
Planned Learning Activities	and Teaching Me	ethods	Explanation	n (Presenta	tion), Demonst	tration		
Name of Lecturer(s)								

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	60			

Recommended or Required Reading

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. 3.Kacar, B., 2009.Toprak Analizleri.' 2. Baskı Nobel Yayınları, Ankara.

Week	Weekly Detailed Course Contents				
1	Theoretical & Practice	ntroduction and soil definition			
2	Theoretical & Practice	Soil elements and minerals			
3	Theoretical & Practice	Igneous, sedimentary and metamorphic rocks			
4	Theoretical & Practice	Soil formation			
5	Theoretical & Practice	oil morphology and profile			
6	Theoretical & Practice	Physical properties of soil			
7	Theoretical & Practice	Chemical properties of soil			
8	Theoretical & Practice	Soil organisms (Midterm Exam)			
9	Theoretical & Practice	Soil organic matter			
10	Theoretical & Practice	Soil erosion and conservation			
11	Theoretical & Practice	Soil classification			
12	Theoretical & Practice	Soil using			
13	Theoretical & Practice	Soil-environment realtionships			
14	Theoretical & Practice	An overview			

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	0	2	28		
Lecture - Practice	14	0	2	28		
Individual Work	14	1	0	14		
Midterm Examination	1	14	1	15		



Final Examination	1		14	1	15
			To	otal Workload (Hours)	100
[Total Workload (Hours) / 25*] = ECTS 4					4
*25 hour workload is accepted as 1 ECTS					

Learn	ing Outcomes
1	To be able to define soil formation and morphology
2	To be able to define physical properties of soil and to establish a relationship between soil physical properties and soil fertility
3	To be able to define the chemical properties of soil and to establish a relationship between soil chemical properties and soil fertility
4	Comparison of methods that can be used to determine the fertility status of soils
5	Learning the principles of collecting soil samples and preparation techniques for analysis
6	To gain the skill of interpretation and selection in the selection of methods to be used in the analysis of soil samples
7	To know the properties and usage areas of the materials and devices to be used in the analysis
8	To be aware of the points to be considered in the analysis
9	Awareness of error sources in analysis and minimizing errors experience
10	Evaluation of analysis results and development of interpretation skills in terms of soil fertility

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Progr	Programme Outcomes (Laboratory Technology)								
1	To be able to comprehend social, cultural contemporary problems and development		cial responsibilities, to	be al	ble to follow national and international				
2	cultural values of the Turkish people, open	to univ	rersal and contempora anguage and a consci	ary de ousne	rms; Adopting the national, moral, spiritual and evelopments, the Turkish language is a rich, ess; To have the ability to use as much of a ly.				
3	To be able to recognize the basic hardware units and operating systems of a computer, having information about internet usage and preparing documents, spreadsheets and presentations on computer by using office programs.								
4	Acquires theoretical and practical knowledge at the basic level in mathematics, science and vocational field.								
5	With the knowledge of laboratory technol suggests solutions.	ogy in th	ne field, he knows and	l anal	yzes problems, brings interpretation of data and				
6	In laboratories, according to the prepared quality products.	busine	ss plan and program,	nece	ssary work can be done to obtain the desired				
7	To have professional and ethical responsibility in business life.								

Development and change are open, follow scientific social and cultural innovations, and develop themselves constantly.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L5	L6
P1	5	5
P2	5	5
P3	5	5
P4	5	5
P5	5	5
P6	5	5
P7	5	5
P8	5	5

