



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Soil Knowledge							
Course Code		ÇS106		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course,is to teach to students defining soil formation and rocks, minerals,elements in soil understanding relationships among soil physical,chemical and biological properties.							
Course Content		The aim of this course,is to teach to students defining soil formation and rocks, minerals,elements in soil understanding relationships among soil physical,chemical and biological properties.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Toprak Bilimi; Ege Üniversitesi Ziraat Fakültesi Yayınları No:557
2	Toprak Coğrafyası; Çantay Kitabevi, İstanbul-2004

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction and soil definition
	Preparation Work	Projection apparatus, slates and supporter books
2	Theoretical	Soil elements and minerals
	Preparation Work	Projection apparatus, slates and supporter books
3	Theoretical	Igneous, sedimentary and metamorphic rocks
	Preparation Work	Projection apparatus, slates and supporter books
4	Theoretical	Soil formation
	Preparation Work	Projection apparatus, slates and supporter books
5	Theoretical	Soil morphology and profile
	Preparation Work	Projection apparatus, slates and supporter books
6	Theoretical	Physical properties of soil
	Preparation Work	Projection apparatus, slates and supporter books
7	Theoretical	Chemical properties of soil
	Preparation Work	Projection apparatus, slates and supporter books
8	Intermediate Exam	Midterm
9	Theoretical	Soil organisms
	Preparation Work	Projection apparatus, slates and supporter books
10	Theoretical	Soil organic matter
	Preparation Work	Projection apparatus, slates and supporter books
11	Theoretical	Soil erosion and conservation
	Preparation Work	Projection apparatus, slates and supporter books
12	Theoretical	Soil classification
	Preparation Work	Projection apparatus, slates and supporter books
13	Theoretical	Soil using
	Preparation Work	Projection apparatus, slates and supporter books
14	Theoretical	Soil-environment relationships
	Preparation Work	Projection apparatus, slates and supporter books
15	Theoretical	Soil-environment relationships



15	Preparation Work	Projection apparatus, slates and supporter books
----	------------------	--

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Reading	6	0	2	12
Individual Work	12	0	2	24
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
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 physical properties of soil
3	To be able to define chemical properties of soil and be able to relate chemical properties of soil to soil fertility
4	To be able to define biological properties of soil and be able explain effects of biological properties of soil
5	To be able to explain causes of soil erosion and and identify appropriate precautions to be taken against water erosion

Programme Outcomes (Environmental Health)	
1	They have the appropriate level of knowledge about the basic sciences which has an interaction with the environment and the environment itself.
2	They have gained the basic concepts, skills and qualifications in the Environmental health theoretical and practical lessons. And then they can establish the connections that are necessary to protect the environment and people's health in the light of these competencies.
3	They can use the approaches and the information of basic and applied research in different disciplines. They can follow the innovations and developments in their field, and have self-development competency with the terms of the day.
4	They know and apply the analysis methods used in the evaluation of environmental factors (drinking water, waste water treatment, air pollution, meteorological data, land values, food control, radiation measurement, etc.).
5	They have a professional and ethical consciousness, and have the ability to recognize the environmental problems and also can formulate a solution to these problems. They apply the gained knowledges and skills faced in real life situations, transfers the knowledge to individuals around, and wins the life-long learning behavior.
6	They are able to use their professional knowledge in their lives and behave sensitively toward the local and global environmental problems and effectively uses to the legislation and management tools the necessary for the solution.
7	Gained the ability to adapt the changing in a positive way themselves, to understand the core values and cultures of the society which are living. Sensitive to the universal and the social values, interests of the country, have adopted the concept of sustainable development, environmentally conscious, productive, behaves aware of the ethical and professional responsibility.
8	Provides a healthy interact of individual, society and the environment and take responsibility in the necessary situations for the continuity.
9	They gain the ecologically-based solving skills the problems and the delays that may arise in interaction with each other of living and nonliving environment. Interests of local and national, and Ecological and historical values of our country, and contribute to the protection and the development of them.
10	Exhibits the appropriate behaviours for the protection and the development of plants, animals, and inanimate environment, and the especially human health.
11	Knows the value of energy for life, recognizes the types of energy, and have conscious of the importance, using and dissemination of renewable energy sources.
12	Knows the properties of information and communication technologies, and uses them in the process efficiently and professionally.
13	They aware of the democracy, rule of law, human rights, the national and universal cultural characteristics, and sensitive towards to the nature, society and people.
14	Knows the importance of Ataturk's principles and reforms, make them a way of life.
15	Uses effectively the Turkish in speaking and writing.
16	Has at least one foreign language ability to be able to follow the knowledge in their profession and to communicate with colleagues.
17	To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

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	5	5	5	5	5
P3	4	4	4	4	4
P4	5	5	5	5	5
P5	4	4	4	4	4
P6	4	4	4	4	4
P7	4	4	4	4	4
P8	4	4	4	4	4
P10	4	4	4	4	4

