

SOIL SCIENCE

1	Course Title:	SOIL SCIENCE
2	Course Code:	ORGZ109
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	No
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. MURAT ALİ TURAN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	zeynal@uludag.edu.tr, 0224.2941536, U.Ü. Ziraat Fak. Toprak Bilimi ve Bitki Besleme Bölümü. Görükle-Nilüfer/Bursa
17	Website:	
18	Objective of the Course:	Give informations about the important characteristics of soil, which is the main element of agricultural production, To teach about agricultural applications and techniques which are necessary for sustainable agriculture and soil fertility.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Knows the basic properties of soils.
	2	Can determinate the suitable varieties of plants according to soil properties.
	3	Knows the affects of agricultural practises on soil propereties and can take necessary precautions.
	4	provide the optimum utilization of sources used in agricultural production.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Soil formation and development	
2	Rocks which composes the soil and their properties	
3	Description of the soil, soil functions in terms of plant development, mineral materials of soil.	

4	Soil organic matter	
5	Soil organisms	
6	Soil texture and its importance	
7	Water retention in soil, the importance, and quantity and potential of soil water.	
8	Determination methods the water content of soils and expression of soil water content	
9	Midterm exam, course assessment	
10	Classification of soil water in terms of benefits to plants, conservation of the soil water balance	
11	Salinity and alkalinity problems in soils	
12	Properties of saline and alkaline soils and its remediation	
13	Reaction of soil and its importance	
14	Lime application to acidic soils and points to be considered in applications of It to soils	
22	Textbooks, References and/or Other Materials:	<ul style="list-style-type: none"> •Tümsavaş, Z. Soil Science. Unpublished Course Notes, Bursa. •Özbek H. 1993. Soil Science. Çukurova University, Agriculture Fac. Course Book No: 34, Adana,
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBER
Midterm Exam		1
Quiz		0
Home work-project		0
Final Exam		1
Total		2
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			91.00
Total work load/ 30 hr			2.70
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							