

SOIL AND WATER CONSERVATION

1	Course Title:	SOIL AND WATER CONSERVATION
2	Course Code:	TPR4904-Z
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
7	ECTS Credits Allocated:	3.00
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. ZEYNAL TÜMSAVAŞ
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:	To teach the cultural, technical and plant measures to control soil and water losses which are caused by erosion for continuity of fertility and productivity of soils.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Knows some basic problems of soil
	2	Knows the results of soil erosion which causes soil losses, erosion types and its harmful effects and takes precautions for that problem.
	3	Knows and can apply the technical measures for soil and water conservation in different soil and climatic conditions,
	4	Knows the affects of agricultural practices on soil and water conservation, Can make the right decisions for agricultural practices considering the problems that may arise
	5	Can calculate soil loss from water erosion in agricultural lands and can determine the plant and technical precautions to make that loss tolerable.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Definition of erosion, erosion types, damage of erosion.	

2	Types of water erosion			
3	Prepare and accelerate causes of water erosion, demonstrating symptoms of water erosion			
4	Factors affecting the water erosion			
5	Factors affecting the water erosion (continue)			
6	Water erosion in Turkey, prediction of the amount of soil loss by water erosion			
7	The erosion creation power of Rainfall (R Factor), tendency of soil for being eroded (K Factor)			
8	Slope length and slope degree (LS) factor, plant management (C) factor, soil conservation measures (P) factor,			
9	Midterm exam, course assessment			
10	Soil loss tolerance			
11	Control methods of water erosion			
12	Purposes of terracing, the terrace types			
13	Planning of the terraces			
14	Wind erosion			
22	Textbooks, References and/or Other Materials:	•Sönmez, K. 1994. Soil and Water Conservation. Atatürk University, Publication of Agriculture Faculty, No: 169, Erzurum.		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		University, Publication of Agriculture Faculty, No:92-III, Izmir	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		University, Course Book of Agriculture Faculty, No:127, Adana	2.00	28.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm exams		1	15.00	15.00
Others		0	0.00	0.00
Final Exams		0	19.00	19.00
Total Work Load				105.00
Total Workload/ 30 hr		1	60.00	3.00
ECTS Credit of the Course				3.00
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			

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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	0	4	0	0	0	4	4	0	0	0	0	0
ÖK3	0	0	0	0	0	0	3	0	0	0	4	0	0	0	0	0
ÖK4	0	0	0	0	0	0	4	0	0	0	4	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				