	DESIGN C	FSM	ALL EARTH DAMS						
1	Course Title:	DESIGN	OF SMALL EARTH DAMS						
2	Course Code:	BSM4527-S							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	cle						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	1.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Doç.Dr. HAKAN BÜYÜKCANGAZ							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	cangaz@uludag.edu.tr U.Ü. Ziraat Fakültesi Biyosistem Mühendisliği Bölümü 0.224.2941621							
17	Website:								
18	Objective of the Course:	In this course, basic engineering topics in planning, design, and construction of small earth dams are given.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	decide the location of earth dams and to gain skill to interpret topographical maps						
		2	understand the basic engineering principles for planning and design of earth dams						
		3	design cut-off, embankments, emergency spillway and drop inlet spillway of earth dams						
		4	realize the problems occurred in dam construction and develop measures for that problems						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	Course Content:						
	Theoretical		Practice						
1	Introduction		Introduction						
2	Preliminary Surveys		Preliminary Surveys						
3	Hydrological Surveys		Hydrological Surveys						
4	Drawing of Volume-Area Graphic		Drawing of Volume-Area Graphic						

5	The Definition of Watershed Sediment Yill and Dead Storage		The Definition of Watershed Sediment Yield and Dead Storage							
6	Design of Cut-off with sand and gravel materials		Design of Cut-off with sand and gravel materials							
7	Repeating courses and midterm exam									
8	Design of Cut-off with Silt, Clayey, and Organic Materials	С	Design of Cut-off with Silt, Clayey, and Organic Materials							
9	Design of Embankments		Design of Embankments							
10	Slope Protection in Earth fill dam embankments	S	Slope Protection in Earth fill dam embankments							
11	Design of Emergency Spillway		Design of Emergency Spillway							
12	Design of Drop inlet pipe spillways	С	Design of Drop inlet pip	e spillways						
13	Construction Technics of Small Earth Dar and O&M	ms C	Construction Technics of Small Earth Dams and O&M							
14	Environmental Impacts of Earth Dams	E	Environmental Impacts of Earth Dams							
22	Textbooks, References and/or Other Materials:	F Y 2 H H 3 V	1. Kasap, R. 1988. Gölet Temel ve Gövdelerinin Projelendirilmesi, Köy Hizmetleri Genel Müdürlügü Yayınları, Ankara. 2. Özer, Z., 1990. Su Yapılarının Projelendirilmesinde Hidrolojik ve Hidrolik Esaslar (Teknik Rehber). Köy Hizmetleri Genel Müdürlügü Yayınları, Ankara. 3. Özer, Z., 1988. Göletlerde Derivasyon-Dip Savak Proje ve Hesapları. Köy Hizmetleri Genel Müdürlügü Yayınları, Ankara. 4. Venedik, R., 1987. Gölet Yapım Teknigi. Köy Hizmetleri							
Activit	es		Number	Duration (hour) Total Wo						
Theore	tical		14	1.00	14.00					
Practica	als/Labs		14	2.00	28.00					
Self Stu	TEARNING ACTIVITIES NUMBER	MBE V	EIGHT	4.00	8.00					
Homew			1	9.00	9.00					
Braject	s 0	0	. 0 0	0.00	0.00					
Field S	<u> </u>		0	0.00	0.00					
Midden	n exams 1	6	0.00	6.00	6.00					
Others		5	3.00	15.00						
Einalrib	ution of Term (Year) Learning Activities to) 4	0 ¹ .00	10.00	10.00					
	/ork Load			96.00						
Cotatrity	oficioedFit@hExam to Success Grade	0.00		3.00						
ECTS (Credit of the Course			3.00						
Course		n the								
24	ECTS / WORK LOAD TABLE									

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3

ÖK4	5	5	5	4	5	1	3	5	5	5	4	5	0	0	0	0
LO: Learning O Contrib 1 very low 2 low ution Level:		bjec		s P Medi			m Qu 4 Higl				y High					