DESIGN OF SURFACE IRRIGATION SYSTEMS										
1	Course Title:	DESIGN	OF SURFACE IRRIGATION SYSTEMS							
2	Course Code:	BSM3518-S								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	3								
6	Semester:	6	6							
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:	-								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Doç. Dr. BURAK NAZMİ CANDOĞAN								
15	Course Lecturers:	-								
16	Contact information of the Course Coordinator:	e-posta: bncandogan@uludag.edu.tr Telefon: 0 224 2941628 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA								
17	Website:									
18	Objective of the Course:	Students will be skillful in designing of surface irrigation systems.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To use the methods of land leveling project in land preparation for irrigation							
		2	To apply knowledge of basic engineering taken from other courses							
		3	To choose the most appropriate method of surface irrigation							
		4	To size the system components and to design the irrigation system required by the selected surface irrigation method							
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week			Practice							
1	Introduction to surface irrigation syst									
2	Land preparation for irrigation: Land	leveling								
3	Land leveling		Least-squares method							

4	Land leveling		Symmetric residuals method						
5	Infiltration characteristics of soil and infiltration time	Calculation of net infiltration time							
6	Design of uncontrolled flooding and irrigation systems	basin	A numerical exam systems	ple for the design of bas	sin irrigation				
7	Design of border irrigation systems		A numerical example for the design of border irrigation systems						
8	Design of furrow irrigation systems		Furrow types and	infiltration tests in furrow	v irrigation				
9	Repeating courses and midterm exa	am							
10	İNGİLİZCE		INGILIZCE						
11	Design of furrow irrigation systems: furrows	Open	Design as open furrow with constant flow						
12	Design of furrow irrigation systems: furrows	Open	Design as open furrow with variable flow						
13	Design of furrow irrigation systems: furrows	A numerical example for the design of closed furrow systems							
14	Design of furrow irrigation systems: furrows	Closed	A numerical example for the design of closed furrow systems						
22 Activit	Textbooks, References and/or Othe Materials:	r	1. Yıldırım, O., 2013. Sulama Sistemlerinin Tasarımı (4. Baskı). Ankara Üniversitesi Ziraat Fakültesi, Yayın No: 1594, Ders Kitabı: 546, s: 367. 2. Walker, W.R., Skogerboe, G.V., 1987. Surface Irrigation. Prentice-Hall, Inc., Englewood Cliffs, New Jersey 07632, USA. ISBN: 0-13-877929-5 025. 375 pp. Number Duration (hour) Total Work						
					Load (hour)				
Theore	tical	R	14	1.00	14.00				
	als/Labs		14	2.00	28.00				
Self stu	udy and preperation	0	ાંબુહ	1.00	13.00				
Homew			2	14.00	28.00				
Froject	<u>x</u> am	1	60000	0.00	0.00				
Field S			0	0.00	0.00				
Modell	uition of Ferm (Year) Learning Activit if exams ss Grade	ies to	40,00	3.00	3.00				
Others			0	0.00	0.00				
Final E	xams	10	100,00	4.00	4.00				
	Vork Load				90.00				
Masy	rementanghБүaluation Techniques U	Jsed in the			3.00				
ECTS (Credit of the Course				3.00				
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME								

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	2	3	2	4	2	2	2	2	2	4	0	0	0	0	0
ÖK2	5	4	4	2	4	2	2	3	2	2	4	0	0	0	0	0
ÖK3	4	4	4	2	5	3	2	4	3	3	4	0	0	0	0	0
ÖK4	4	5	5	4	5	4	4	4	4	4	5	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			