IRRIGATION TECHNIQUES											
1	Course Title:	IRRIGAT	RIGATION TECHNIQUES								
2	Course Code:	SBYZ210									
3	Type of Course:	Compuls	sory								
4	Level of Course:	Short Cy	cle								
5	Year of Study:	1									
6	Semester:	2									
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:	-									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	ace								
14	Course Coordinator:	. Dr. YILMAZ DORUK									
15	Course Lecturers:	Öğr.Gör.	Dr.Yılmaz DORUK								
16	Contact information of the Course Coordinator:	yzdoruk@uludag.edu.tr, 02242942374, U.Ü.Teknik Bilimler Meslek Yüksekokulu B Blok-Görükle Kampüsü/Bursa									
17	Website:										
18	Objective of the Course:	The main inputs of the importance of irrigation in agriculture, teaching techniques, teach the principles and practice.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Irrigation Definition, history, characteristics, and the importance of the agricultural point of irrigation method, system and project to explain the concepts.								
		2	Irrigation in terms of some important soil properties (Soil phases, soil texture, soil structure, specific gravity of soil, soil bulk density, porosity, porosity, saturation, etc.). Understand the forms of expression, and soil moisture.								
		3	Statements are important for irrigation (saturation point, field capacity, wilting point, oven dried, etc.). Comprehe direct and indirect measure of soil moisture.								
		4	After calculation of irrigation time and determine the range of plant water consumptions.								
		5	To understand the issue of regulation of the parcels of farm and land leveling.								
		6	Irrigation practices in the true means by which the garden and the greenhouse environment, characteristics of these methods, be able to comprehend such issues as factors in the choice of method.								
		7	To understand the importance of drainage and irrigation of agricultural land drainage problems. To explain the methods of drainage.								
		8	Application of irrigation and drainage does not create environmental problems.								
		9									
		10									

21	Course Content:										
	Course Content:										
Week	Theoretical	Practice									
1	 Irrigation definition, properties, and agricultural significance. A short history of irrigation, on the basis of global and country. Irrigation potential and the ready availability of a special state of Turkey. Irrigation method, irrigation systems and concepts such as irrigation project. 										
2	• Some soil properties are important for irrigation: (Soil phases, soil texture, soil structure, specific gravity of soil, soil bulk density, porosity, porosity, saturation, etc.).Possible to calculate these values in different circumstances.										
3	 Acting within the scope of the subject of irrigation water applied to plant root depth of soil depth. Calculation of soil moisture and forms of expression. Important in terms of irrigation soil moisture constants.(Saturation point, field 										
Activit	es	Number	Duration (hour)	Total Work Load (hour)							
Theore	ical raking son samples.(impared, intact ical examples) tools used for this purpose.	14	2.00	28.00							
Practic	als/Labs	0	0.00	0.00							
Self stu	dy an Spir at a fight over and soil water	14	2.00	28.00							
Homew	vorks	0	0.00	0.00							
Project	δ	0	0.00	0.00							
Field S	tudies	0	0.00	0.00							
Midtern	n examples, solutions.	2	12.00	24.00							
Others		0	0.00	0.00							
Final E	Kams Irrigation water requirement, irrigation	1	10.00	10.00							
Total W	/ork Load			90.00							
Total w	ork load/ 30 hr			3.00							
ECTS	Credit of the Course			3.00							
	 Types of land leveling, desing methods. 										
7	Surface irrigation methods										
8	Lesson repeat and midterm										
9	 Pressurized irrigation methods, sprinkler irrigation method 										
10	• Overhead sprinkler systems, above- ground sprinkler irrigation systems, fogging, tree of six micro-sprinkler, irrigation systems used in greenhouses										
11	Drip irrigation method										
12	Repeating courses and midterm exam										

13	• Dra • The • Def	ainag e imp finitio	je portan on and	ce of i I bene	rrigati fits of	ion dra draina	inage ige.	·-												
14	• Irrig agric • Dra	gateo cultur ainag	d land ral are je met	draina as. hods.	age p	roblem	s and	other												
22	22 Textbooks, References and/or Other Materials:									 Öğr.Gör.Dr. Arzu Mor Sulama Tekniği dersi sunum notları. (Basılmamış) Güngör,Y., Erözel,A.Z. ve Yıldırım O. Sulama. Ankara Üniversitesi Ziraat Fakültesi Yayınları Yayın No: 1443 Ders Kitabı No: 424 Ankara-2010. Güngör,Y., Yıldırım, O., 1980. Tarla Sulama Sistemleri. Ankara Üniversitesi Ziraat Fakültesi Yayınları Yayın No: 1322 Ankara. Yıldırım O., 1996. Sulama Sistemleri II. Ankara Üniversitesi Yayınları. Ankara. Demir A.O., Drenaj ve Arazi Islahı. Uludağ Üniversitesi Ders Kitabı No:86 Bursa-2001. Yıldırım O., 2008. Sulama Sistemlerinin Tasarımı. Ankara Üniversitesi Ziraat Fakültesi Yayınları Yayın No: 1565 Ders Kitabı No: 518 Ankara-2008. 										
23	Asse	esme																		
	LEARI	NING	ACTI	VIIIES			F			WEIGHT										
Midterr	m Exa	am					2	2	40.	40.00										
Quiz	work	proje)	0.0	0.00										
Final F	Tome work-project 0									60.00										
Total	tal 3									100.00										
Contribution of Term (Year) Learning Activities to Success Grade							s to	40.	40.00											
Contrib	oution	of F	inal E	xam to	o Suc	cess G	rade		60.	60.00										
Total									10	100.00										
Measu Course	iremer e	nt an	id Eva	luatio	n Tec	hnique	s Use	ed in th	ne											
24	ECT	rs /	WO	RK L	OAD	TAB	LE													
25	5			CON	TRIE	BUTIO	N O	F LE	ARN QUA	ING LIFIC	OUTC ATIO	COME INS	S TO I	PROC	GRAMI	ME				
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	3	3	5	4	4	4	4	5	3	3	5	3	5	5	3	1	1			
ÖK2	3	3	5	1	3	4	4	5	2	3	5	4	5	5	3	4	1			
ÖK3	3	3	5	1	3	2	2	5	1	3	5	3	5	5	1	1	1			
ÖK4	3	3	5	3	5	4	4	5	2	3	5	1	5	5	1	1	2			
ÖK5	3	3	5	1	2	4	4	5	4	3	5	4	5	5	1	5	1			
ÖK6	3	3	5	5	3	4	4	5	5	3	5	3	5	5	2	3	1			

ÖK7	3	5	1	1	4	4	5	4	3	5	2	5	5	1	2	1
ÖK8	3	5	4	3	4	4	5	4	3	5	3	5	5	1	3	1
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:		2	2 low			3 Medium			4 High			5 Very High				