IRRIGATION AND DRAINAGE									
1	Course Title:	TION AND DRAINAGE							
2	Course Code:	BSM2502							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	4.00							
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:	Prof. Dr.	Ali Osman Demir						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	e-posta : aodemir@uludag.edu.tr Telefon: 0 224 2941616 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA							
17	Website:								
18	Objective of the Course:	The aim of the course is to select appropriate irrigation and drainage systems and methods, and the criteria for these systems and methods for irrigation of agricultural crops and land drainage.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	establish the relationship between irrigation and drainage						
		2	evaluate the importance of irrigation and drainage in agriculture						
		3	select appropriate irrigation methods and systems according to the conditions						
			select the appropriate drainage systems for areas with drainage problems						
			determine the criteria for the design of irrigation methods and systems						
		6	determine the criteria for drainage systems within the framework of design principles						
		7	list the activities for operation and maintenance of irrigation systems						
		8	explain the path to be followed in operation and maintenance of drainage systems						
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical Practice								

1	The definition and importance of irrigation the benefits of irrigation, the history of irrigation, irrigation in the World and Tirrigation method, irrigation system	f									
2	Soil-plant-water relationships		С	Calculating the soil-water parameters							
3	Irrigation water demand, evapotransp crop coefficient, irrigation efficiency, e rainfall, the amount of irrigation water to each irrigation, irrigation interval, s capacity, determine the irrigation time	effective applied ystem	Calculation of evapotranspiration and irrigation water								
4	Preparing the land for irrigation, lay o field plots, land leveling, on-farm water distribution systems, flow measurements	er	Evaluation of flow measurement results								
5	Irrigation methods, selection of the appropriate irrigation method, flood ir method, ponding irrigation method, be irrigation method, furrow irrigation method,	order	Calculation of the parameters of surface irrigation methods								
6	Sprinkler irrigation method		С	alculation of sprinkler i	rrigation system cap	pacity					
7	Drip irrigation method		С	alculation of drip irrigat	tion system capacity	y					
8	Mini sprinkler irrigation method, subir method	rigation	С	alculation of mini sprin	kler irrigation syster	n capacity					
9	Repeating courses and midterm exar	n									
10	Irrigation water quality			lassification of irrigation a							
11	Operation and maintenance of irrigation	ion	0	n-site inspection of Irricesearch and Application	gation System of A	gricultural					
Activit	es		<u>IR</u>	Number	Duration (hour)						
Theore	ਰਿਕ੍ਰinage surveys		Γ	14	1.00	14.00					
Practica	als/Labs		5	14	2.00	28.00					
Self stu	dy and preperation			13	3.00	39.00					
Homew	vorks			1	7.00	7.00					
Project	8		В	a⁄skı, 2002, Adana	0.00						
Field St	tudies		ما	0	0.00						
Midtern	n exams		3.	Güngör, Y., Erözel, A	<b>₮</b> 21 <b>0</b> 0Yıldırım, O., '	<b>\$<u>ଥ</u> <b>Ձտ</b>a", Ank.</b>					
Others				0	0.00	0.00					
Final E	kams		D	rainage", American So	czetpof Agronomy,	<b>⊉g</b> r <b>90</b> omy					
Total W	/ork Load			ariaa Numbar 30 1000	TICA	132.00					
Total w	ork load/ 30 hr		M	anagement Training M	anual No.9, 1996,	\$10 <b>0</b> 00e					
	Credit of the Course					4.00					
TERM L	EARNING ACTIVITIES	NUMBE R	W	EIGHT							
Midterm Exam 1				40.00							
Quiz		0	0.00								
Home v	vork-project	0	0.00								
Final Ex	xam	1	60.00								
Total		2	100.00								
	ution of Term (Year) Learning Activitie s Grade	es to	40.00								
Contrib	ution of Final Exam to Success Grade	)	60.00								
Total			100.00								
Measur Course	rement and Evaluation Techniques Us	sed in the									

24 E	CTS/	TS / WORK LOAD TABLE														
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	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low 2 low ution Level:					3 Medium			4 High			5 Very High					