	SURVEYING											
1	Course Title:	SURVE	YING									
2	Course Code:	BSM150	2									
3	Type of Course:	Compuls	sory									
4	Level of Course:	First Cyc	cle									
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:	None										
12	Language:	Turkish										
13	Mode of Delivery:	Face to	face									
14	Course Coordinator:	Doç. Dr.	MÜGE KİRMİKİL									
15	Course Lecturers:	Yok										
16	Contact information of the Course Coordinator:	e-posta: muge@uludag.edu.tr Adres: B.U.Ü. Ziraat Fakültesi Biyosistem Mühendisliği Bölümü Görükle/Bursa Telefon: 0.224.2941623										
17	Website:											
18	Objective of the Course: Course objectives are to give the student a basic understanding surveying measurement procedures, and basic principles for using instruments, to show agricultural land measurement techniques.											
19	Contribution of the Course to Professional Development:	Course objectives are to give the student a basic understanding surveying measurement procedures										
20	Learning Outcomes:											
		1	learn the basic land surveys which are necessary for data acquisition in agricultural engineering studies, work with basic surveying equipment									
		2	understand the basic principles of height measurement, design and conduct those surveys									
		3	conduct surface leveling and draw contours									
		4	gain skill to interpret topographical maps									
		5										
		6										
		7										
		8										
		9										
_		10										
21	Course Content:											
107	·· ·	Сс	ourse Content:									
	Theoretical		Practice									
1	Introduction		Introduction									
2	Definition, content, and historical development of Surveying		Definition, content, and historical development of Surveying									

3	Units of Measurement and Scale		N	Measurement Units and Scale								
4	Basic surveying equipment Horizontal distance measurement to methods	ols and		Basic surveying equipment Horizontal distance measurement tools and methods								
5	Equipment providing perpendicularity	y to the	Е	Equipment providing perpendicularity to the line								
6	Area measurements methods		Α	rea measurements me	ethods							
7	Area measurement by Planimeter		Α	Area measurement by Planimeter								
8	Leveling and Leveling Instruments		٧	Vertical distance measurements								
9	Differential and Profile Leveling		D	Differential and Profile Leveling								
10	Repeating courses		R	epeating courses								
11	Surface Leveling		S	urface Leveling								
12	Drawing of Contours		D	rawing of Contours								
13	Map Interpretation		N	lap Interpretation								
14	Global Positioning Systems		G	lobal Positioning Syst	ems							
22	Textbooks, References and/or Other Materials:		Ayyıldız, M. 1985. Ölçme Bilgisi, Ankara Üniversitesi Ziraar Fakültesi Yayını N.:952 Yüksel, A.N., 1991. Ölçme Bilgisi, Trakya Üniversitesi, Tekirdağ Ziraat Fakültesi, Yayın no:112, Tekirdağ. Balcı, A. ve M. Avcı, 1998. Ölçme Bilgisi-1, Ege Üniversitesi, Ziraat Fakültesi yayınları, No:532, Bornova, İzmir.									
Activit	es			Number	Duration (hour) Total World Load (hou							
Theore	tical		B	lgısı, Dora Yayınları	1 00	14.00						
Practic	als/Labs			14	2.00	28.00						
Self stu	udy and preperation	R	Τ'	5	3.00	15.00						
Homev	vorks			0	0.00	0.00						
Quoixect	s	1	2	0000	0.00							
Field S	tudies		•	3	6.00							
MirotteEr	naenams	1	6	и 00	20.00							
Others				6	18.00							
EionatrÆ	xaions of Term (Year) Learning Activiti	es to	4	0100	20.00							
	Vork Load					141.00						
Foratrik	เปล่อกอยู่เคียงคุม Exam to Success Grad	e	6	0.00		4.03						
ECTS	Credit of the Course					4.00						
Measu Course	rement and Evaluation Techniques U	sed in the	g e	The effect of the midterm exam on the course-passing grade is 40%, the effect of the final exam on the course-passing grade is 60%.								
24	ECTS / WORK LOAD TABLE											
25	CONTRIBUTION	OF 1 F 4	ח	NING OUTCOMES	TO DDOCDAN	484E						

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15									PQ15	PQ16					
ÖK1	0	0	0	4	2	1	1	0	1	1	0	0	0	0	0	0
ÖK2	2	0	2	4	3	2	1	0	1	0	0	0	0	0	0	0

ÖK3	2	0	2	4	2	2	1	0	1	0	0	0	0	0	0	0
ÖK4 2 0 2 4 2 2 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0											0					
Contrib 1 very low 2 low ution Level:							3 Medium 4 High					า	5 Very High			