LAND LEVELING MACHINERIES

1	Course Title:	LAND LEVELING MACHINERIES	
2	Course Code:	BSM3823-S	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	5	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. Halil Ünal	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Prof. Dr. Halil ÜNAL e-posta : hunal@uludag.edu.tr Telefon: 0 224 2941607 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA	
17	Website:		
18	Objective of the Course:	Aim of the course to students in Terms of Excavation and Grading Soil Mechanics, Excavation and Leveling Machines, Land Cleanup and post new Technique and Equipment, Terracing Technique and Equipment, Drainage Technique and give basic information about the machines. Students taking the course on the subject land and Leveling Machines and level of knowledge in engineering applications, the labor force.	
19	Contribution of the Course to Professional Development:	The student learns the introduction of non-agricultural lands into agriculture, and the application of machinery and equipment used in various recreation and landscape areas.	
20	Learning Outcomes:		
		1	Clarify basic concepts associated with earth-moving machinery
		2	Understand the properties of soil and ground in earth-moving
		3	Recognize the basic tools used in the mechanization of leveling of land for what purpose these tools, learning how to use and where
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21	Course Content:		
	Course Content:		

Week	Theoretical	Practice
1	Introduction	
2	Excavation and Grading Soil Mechanics in Terms of	
3	Excavation and leveling the soil in Terms of Technical Study	
4	Excavation and Leveling Machines Regular Force and Velocity Determination Draft Resistance Movement	
5	Melioration Machine Control Systems	
6	Classification and selection of tools and machines used in Melioration	
7	Move the base problem, Subsoil and Ripper	
8	Dozer, Skreyper ve Skreyper-Float	
9	Repeating courses and midterm exam	
10	Graders and Excavators	
11	Land Cleanup and Opening Techniques and Equipment	
12	Teraslama Tekniği ve Makinaları	
13	Drenaj Tekniği ve Makinaları	
14	Melioration Machinery Cost Calculation	

22	Textbooks, References and/or Other	1. YETKİN, Ş., 1983. Meliorasyon Makine ve Ekipmanları. [illegible] 3. ONAL, I., 1991. Meliorasyon Makinaları. E.U. Ziraat Fak. Yayınları No: 501, ZMIR. Fak. Yayınları No: 129, ERZURUM. 5. OZDEN, D.M., 1993. Arazi Tesvivesinde Bilgisavar Mo. Yayınları, Yayın No 40.

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	1	20.00	20.00
Projects	3	9.00	27.00
Field Studies	0	0.00	0.00
Midterm exams	1	8.00	8.00
Others	0	0.00	0.00
Midterm Exam	1	10.00	
Final Exams	1	12.00	12.00
[illegible]	1	12.00	
Total Work Load			123.00
Home work-project	1	20.00	
Total work load/ 30 hr			4.10
[illegible]	1	20.00	
ECTS Credit of the Course			4.00

TERM LEARNING ACTIVITIES	**NUMBE**	**WEIGHT**
Total	4	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Measurement and evaluation is carried out according to the principles of Bursa uludag University Associate and Undergraduate Education Regulation.

24	**ECTS / WORK LOAD TABLE**

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	3	3	3	0	3	0	0	5	3	3	3	4	0	0	0	0
ÖK2	4	3	3	0	3	0	0	5	3	3	3	4	0	0	0	0
ÖK3	3	3	4	3	4	0	0	5	3	3	3	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				