

TOPOGRAPHY

1	Course Title:	TOPOGRAPHY
2	Course Code:	MIM2010
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
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:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. Erkan Yaslıoğlu
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	yasli@uludag.edu.tr, 0224-2941624, U.Ü. Ziraat Fakültesi Biyosistem Mühendisliği Bölümü, Görükle, Bursa.
17	Website:	
18	Objective of the Course:	To give the student a basic understanding of surveying measurement procedures, and interpretation of topographical maps.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Learn the basic land surveys which are necessary for data acquisition in architectural studies
	2	Work with basic surveying equipment
	3	Understand the basic principles of distance and surface area measurements, design and conduct those surveys
	4	Understand the basic principles of height measurement, design and conduct those surveys
	5	Measure the length of any given profile by different equipment
	6	Use leveling instruments
	7	Conduct surface leveling and draw contours
	8	Gain skill to interpret topographical maps
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	10	
21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Introduction	
2	Definition, content, and historical development of Surveying	
3	Units of Measurement and Scale	

4	Basic surveying equipment Horizontal distance measurement tools and methods	
5	Equipment providing perpendicularity to the line	
6	Area measurements methods	
7	Area measurement by Planimeter	
8	Repeating courses and midterm exam	
9	Leveling and Leveling Instruments	
10	Differential and Profile Leveling	
11	Surface Leveling	
12	Drawing of Contours	
13	Map Interpretation	
14	Global Positioning Systems	

22	Textbooks, References and/or Other Materials:	<p>Balcı, A. ve M. Avcı, 1998. Ölçme Bilgisi-1, Ege Üniversitesi, Ziraat Fakültesi yayınları, No:532, Bornova, İzmir.</p> <p>Yüksel, A.N., 1991. Ölçme Bilgisi, Trakya Üniversitesi, Tekirdağ Ziraat Fakültesi, Yayın no:112, Tekirdağ.</p> <p>Yağanoğlu, V. ve ark.1991. Ölçme Bilgisi-1 (Uygulama Ders Notu). Atatürk Üniversitesi Ziraat Fakültesi Ders</p>
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Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
Practicals/Labs		0	0.00	0.00
Self study and preparation		13	2.00	26.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Quiz		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		1	10.00	10.00
Final Exam		1	60.00	60.00
Others		0	0.00	0.00
Final Exams		1	20.00	20.00
Contribution of Term (Year) Learning Activities to		40.00		
Total Work Load				94.00
Total work load=30 hr				
Contribution of Final Exam to Success Grade		60.00		2.80
ECTS Credit of the Course				3.00

Measurement and Evaluation Techniques Used in the Course		
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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	2	0	3	2	4	3	0	3	3	4	1	0	0	0	0	0
ÖK2	0	2	0	4	0	3	0	0	3	3	5	0	0	0	0	0
ÖK3	0	1	2	4	3	2	0	0	2	4	5	0	0	0	0	0

ÖK4	0	0	2	4	2	3	0	2	3	3	4	0	0	0	0	0
ÖK5	0	0	2	5	3	2	0	3	3	3	5	0	0	0	0	0
ÖK6	0	0	3	5	2	3	0	2	2	3	4	0	0	0	0	0
ÖK7	0	0	2	5	3	3	0	3	2	3	5	0	0	0	0	0
ÖK8	1	1	3	5	4	3	0	2	3	3	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			