

PROFESSIONAL CALCULATIONS

1	Course Title:	PROFESSIONAL CALCULATIONS
2	Course Code:	HRTZ114
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
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:	Öğr.Gör. HAKAN KÖSE
15	Course Lecturers:	Meslek Yüksek Okulları Yönetim Kurullarının görevlendirdiği öğretim elemanları
16	Contact information of the Course Coordinator:	Öğr. Gör. Hakan KÖSE Harita ve Kadastro Programı Gemlik Asım Kocabıyık Meslek Yüksekokulu Tel: (224) 5123491 / 62233 hakankose@uludag.edu.tr
17	Website:	
18	Objective of the Course:	To solve basic practical problems.
19	Contribution of the Course to Professional Development:	Teaches the application and basic calculations of land measurement techniques required in the profession of cartography.
20	Learning Outcomes:	
	1	To analyze the methods of angel measurment
	2	To make ground reduction
	3	To computation of coordinate using the intersection methods
	4	To make comparisons of the intersection methods
	5	To win the ability of the group work at surveying
	6	To win the ability making precise surveying
	7	Group studies of individual susceptibility
	8	To win the ability that providing sensitive results
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Horizontal angle measurement	Angle measure studies
2	Angle measurement with two-half series	Angle measure studies
3	Angle measurement with series method	
4	Reduction on the ground	
5	Eccentric angle measurement	

6	Centering elements	
7	Vertical angle measurement	
8	Midterm Exam	
9	Intersection	
10	Resection – Kaestner Solution	
11	Resection – Cassini Solution	
12	Double-point resection – Hansen’s Problem	
13	Transformations of two-dimentional coordinate	
14	Transformations of two-dimentional coordinate	

22	Textbooks, References and/or Other Materials:	<p>Songu C., 2003, Ölçme Bilgisi-I, Birsen Yayınevi, İstanbul</p> <p>Songu C., 2000, Ölçme Bilgisi-II, Birsen Yayınevi, İstanbul</p> <p>Koç İ., 1998, Ölçme Bilgisi-I, Gökhan Matbaası, İstanbul</p> <p>Koç İ., 2003, Ölçme Bilgisi-II, Gökhan Matbaası, İstanbul</p> <p>Aydın Ö., 2007, Ölçme bilgisi-2, YTÜ İnşaat Fakültesi yayınları No.:785, İstanbul</p>
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23	Assesment	
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TERM LEARNING ACTIVITIES		NUMBE	WEIGHT		
Activites			Number	Duration (hour)	Total Work Load (hour)
Homework	Homework-project	1	10	2.00	28.00
Practicals/Labs			14	2.00	28.00
Self-study and preperation		3	10	2.00	24.00
Homeworks			1	10.00	10.00
Success Grade Projects			0	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			10	10.00	10.00
Others			0	0.00	0.00
Course Final Exams			1	15.00	15.00
Total Work Load					125.00
Total work load/ 30 hr					3.83
ECTS Credit of the Course					4.00

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	4	2	1	1	1	1	1	1	2	3	2	1	0	0	0	0
ÖK2	3	3	1	1	1	1	1	1	2	1	1	1	0	0	0	0
ÖK3	3	3	1	1	1	1	1	1	2	1	1	1	0	0	0	0
ÖK4	3	3	1	1	1	1	1	1	2	1	1	1	0	0	0	0

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