PROFESSIONAL TRIGONOMETRY

1	Course Title:	PROFESSIONAL TRIGONOMETRY
2	Course Code:	HRTZ103
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
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:	Öğr.Gör. HAKAN KÖSE
15	Course Lecturers:	Öğr. Gör. M. Bahattin KAHRAMAN
16	Contact information of the Course Coordinator:	Öğr. Gör. Hakan KÖSE Harita ve Kadastro Programı Gemlik Asım Kocabıyık Meslek Yüksekokulu Tel: (224) 5123491 / 62233 Fax: (224) 5123491 E-posta: kosehakan@gmail.com, hakankose@uludag.edu.tr
17	Website:	
18	Objective of the Course:	To make the solutions of professional problems
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	To practice the basic measurment units at mapping
	2	To make the proces of transforming between angle units
	3	To make mapping application using trıgonometric functions
	4	To make applications using three-edged shapes
	5	To understand the importance of the triangle concept at map and cadastre
	6	To make applications using multilateral shapes
	7	The multi-edged shapes on part of land divide to triangular or quadrilaterals
	8	To make applications related wiht basic spheric triangles
	9	
	10	

21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Units of angle and transformations of angle	
2	Trigonometric function of acute angles	
3	Transformations of angle function	
4	Small-angle correlation, triangular shapes	

5	Trigonometric Fundamental	
6	Solving Triangle	
7	Solving Triangle	
8	Repeating Courses and Midterm Exam	
9	Half-angle formulas	
10	Sum and Difference Formulas	
11	Four-sided shapes, Quadrangle	
12	Definition and Terminology of Spherical-Angles	
13	Solving spherical-angle	
14	Solving spherical-angle	
22	Textbooks, References and/or Other Materials:	Atasoy V., 2009, Meslek Yüksekokulları için TRİGONOMETRİ, Murathan Yayınevi, İstanbul
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	30.00
Quiz	0	0.00
Home work-project	1	10.00
Final Exam	1	60.00
Total	3	100.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	5.00	70.00
Homeworks	1	10.00	10.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	12.00	12.00
Total Work Load			144.00
Total work load/ 30 hr			4.80
ECTS Credit of the Course			5.00

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

ÖK5	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK6	3	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK7	4	3	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK8	3	1	1	1	1	1	1	1	1	1	1	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