LAND SURVEYING IV

1	Course Title:	LAND SURVEYING IV
2	Course Code:	HRTZ212
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	4.00
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 Gemlik Asım Kocabıyık MYO (0224) 2942677-62233 e-posta:hakankose@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Learning geolocation systems with GNSS in cartography, making coordinate conversions
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	Knowledge to GNSS systems
	2	Learning GNSS coordinate systems
	3	Making GNSS measurements
	4	Learning the Tusaga-Active system
	5	Learning GNSS issues of BÖHHBÜY
	6	To have knowledge about sea and ocean maps
	7	Learning hydrographic measurement methods
	8	Learning coordinate systems and map projections
	9	Learning coordinate transformations and slice transformations
	10	
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Positioning systems with satellites GNSS	
2	Parts of GPS, properties of GPS signals, coordinate and time systems used in GPS	
3	GPS satellite orbits, magnitudes observed with GPS and data formats used	

4	GPS location determination methods, sources of error affecting GPS measurements and calculations, accuracy criteria used in GPS	Field working
5	Differential GPS (DGPS) and other satellite systems (Glonass, Compass, Galileo, IRNSS, QZSS)	Field working
6	TUSAGA-active and space geodesy activities in Turkey	Field working
7	GPS measurements and evaluation, GPs observations, GNSS measurements in BÖHHBÜY	Field working
8	Repeating courses and midterm exam	
9	Hydrographic measurements	
10	Hydrographic measurements	
11	Hydrographic measurements	
12	Transformation from Gauss-Kruger coordinates to Geographic coordinates	
13	Transformation from geographic coordinates to Gauss-Kruger coordinates	
14		

22	Textbooks, References and/or Other Materials:	Yıldız F., Kahveci M., 2009, GPS / GNSS Uydularla Konum Belirleme Sistemleri, Nobel Yayıncılık, İstanbul
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBE	WEIGHT

Activites			Number	Duration (hour)	Total Work Load (hour)
Theoretical Home work-project	1	10.00	14	4.00	56.00
Practicals/Labs			14	2.00	28.00
Self study and preperation Total	4	100.00	0	0.00	0.00
Homeworks			1	26.00	26.00
Success Grade Projects			0	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams Total		100.00	1	10.00	10.00
Others			1	15.00	15.00
Final Exams Course			to the principles of Bursa Uludağ University Associate and Undergraduate	15.00	15.00
Total Work Load					150.00
24 ECTS / WORK LOAD TABLE Total work load/ 30 hr					5.00
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	5	4	3	1	1	5	2	1	2	1	1	1	0	0	0	0
ÖK2	4	3	3	1	1	5	1	1	2	1	1	1	0	0	0	0
ÖK3	3	2	2	1	1	5	1	1	1	1	1	1	0	0	0	0
ÖK4	4	3	3	2	1	5	1	1	1	1	1	1	0	0	0	0

ÖK5	4	2	1	3	1	5	1	1	1	1	1	1	0	0	0	0
ÖK6	4	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK7	3	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK8	5	2	1	1	1	1	1	1	1	1	1	1	0	0	0	0
ÖK9	5	3	3	1	1	4	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