MOBILE MAPPING TECHNOLOGIES

1	Course Title:	MOBILE MAPPING TECHNOLOGIES
2	Course Code:	HRTS230
3	Type of Course:	Optional
4	Level of Course:	Short 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:	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 E-posta: hakankose@uludag.edu.tr
17	Website:	
18	Objective of the Course:	This lecture has been implicated basic mobile mapping principles, optical and scanning rules within mobile mapping systems and its calibration and integration of hardware and software for making mobile surveying
19	Contribution of the Course to Professional Development:	It is aimed for students to have information about data acquisition systems for mobile map making, data principles of the combined use of these systems, and calibration.
20	Learning Outcomes:	
		1	Identify with mobile mapping hardware and data acquisition methods.
		2	Identify the properties and usage areas of the data obtained by mobile mapping data acquisition methods.
		3	Use the data obtained with mobile mapping technologies in GIS studies within a three-dimensional urban model environment.
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Aerial mobile mapping techniques	

2	Terrestrial mobile mapping techniques	
3	Auxiliary Hardware of mobile mapping systems	
4	Multi sensor integration in mobile mapping	
5	Sensor calibration in mobile mapping	
6	Platforms in mobile mapping systems (GEOVAN)	
7	Data sets and specifications in mobile mapping	
8	Computer configration in mobil mapping systems	
9	Software in mobile mapping	
10	Image using in mobile mapping	
11	Object extraction in mobile mapping	
12	Application about object extraction	
13	Usage of mobile mapping end products	
14	Usage of mobile mapping end products	
22	Textbooks, References and/or Other Materials:	Advances in Mobil Mapping Technology,ISBN:978-0-415-42723-4,C.Vincent Tao and Jonathan Li,ISPRS BOOK Series,2007Photogrammetry I-II, Karl Kraus, ISBN:3427786846, Dümmler&Verlag, 1993 Elements of Photogrammetry, Paul R. Wolf, ISBN:0072924543, McGraw-Hill Comp., 2000

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	3.00	42.00
Homeworks	0	0.00	0.00
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	10.00	10.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

TERM LEARNING ACTIVITIES	NUMBE	WEIGHT
Midterm Exam	1	40.00
Home-work-project	0	0.00
Total	2	100.00

Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	Quantification and considerationare carried out according to the principles of Bursa Uludağ University Associate and Undergraduate Education and Training 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	0	2	0	0	2	0	0	5	0	5	0	0	0	0	0	0

ÖK2	0	2	0	0	2	0	0	5	0	5	0	0	0	0	0	0
ÖK3	0	2	0	0	2	0	0	5	0	5	0	0	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High