REMOTE SENSING										
1	Course Title:	REMOT	E SENSING							
2	Course Code:	HRTS22	7							
3	Type of Course:	Optional								
4	Level of Course:	Short Cy	cle							
5	Year of Study:	2								
6	Semester:	3								
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. MURAT GÜLER								
15	Course Lecturers:	Öğr. Gör. Murat GÜLER								
16	Contact information of the Course Coordinator:	Öğr. Gör. Murat GÜLER Harita ve Kadastro Programı İznik Meslek Yüksekokulu E-posta: muratguler@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	Teaching the basic concepts of remote sensing and digital image processing techniques.								
19	Contribution of the Course to Professional Development:	To be able to be aware of new and developing applications of the profession.								
20	Learning Outcomes:									
		1	Learning the basic principles, concepts and terminology of remote sensing.							
		2	To be able to define the basic components of remote sensing.							
		3	Learning and applying digital image processing techniques.							
		4	To learn satellite images used in remote sensing applications.							
		5	To be able to analyze object-energy interaction using graphs.							
		6	Based on the characteristics of different satellite images in remote sensing							
			Associating the most appropriate satellite image that can be used to solve a problem with remote sensing.							
			To be able to associate the most appropriate satellite image that can be used to solve a problem with remote sensing, based on the characteristics of different satellite images in remote sensing.							
		7	To be able to compare the methods used in the geometric transformation of satellite images.							
		8	To be able to calculate the classification accuracy.							

		9									
10											
21	Course Content:										
	Course Content:										
Week	Theoretical		Ρ	ractice							
1	Introduction to remote sensing, conclusion basic principles.	epts,									
2	Remote sensing applications.										
3	Energy sources, electromagnetic spe	ectrum.									
4	Data collection in remote sensing.										
5	Satellites and their characteristics.										
6	Sensor types.										
7	Resolution concept: Spatial, spectral radiometric and temporal resolution.	,									
8	Course repetition.										
9	Pre-processing and correction of sate data.	ellite									
10	Image enhancement.										
11	Basic principles and steps of image interpretation, visual interpretation techniques.										
12	Principal component analysis.										
Activit	tes			Number	Duration (hour)	Total Work Load (hour)					
Th pep re	Dektbooks, References and/or Other		In	theduction to Remote S	22.00Sing (5th Edition	2,8020npbell,					
Practica	als/Labs			0	0.00	0.00					
Self stu	dy and preperation			14 Consistent of the	3.00	42.00					
Homew	vorks			0	0.00	0.00					
Project	8		20	Ŋ5.	0.00	0.00					
Field S	tudies			0	0.00	0.00					
Midtern	n exams		In 2	troduction (4th Edition	8Mether, P., John	Miley & Sons,					
Others				0	0.00	0.00					
Final E	xams		R t	emote Sensing Digital	Image Analysis: Ar	12troduction (4					
Total W	Vork Load					98.00					
TERM	EARNING ACTIVITIES	NUMBE	W	EIGHT		3.00					
ECTS Credit of the Course						3.00					
Midtern	n Exam	1	4(0.00							
Quiz 0				.00							
Home work-project 0 0				0.00							
Final E:	xam	1	60.00								
Total 2				100.00							
Contrib Succes	oution of Term (Year) Learning Activitiess Grade	es to	40.00								
Contrib	oution of Final Exam to Success Grade	e	60.00								
Total			100.00								

Measurement and Evaluation Techniques Used in the In order to decide on the success in this course, 1 midterm exam with 40 impact rate and 1 final exam with 60 impact rate are made. Within the scope of this course, a relative evaluation system that enables the conversion of the students' raw achievement scores into letter grades is applied.

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	2	1	3	2	5	5	1	4	4	5	3	4	0	0	0	0
ÖK2	2	1	3	2	5	5	1	4	4	5	3	4	0	0	0	0
ÖK3	1	2	3	2	5	5	1	4	4	5	3	4	0	0	0	0
ÖK4	2	1	3	2	5	4	1	4	4	5	3	4	0	0	0	0
ÖK5	1	1	1	1	5	5	1	4	4	5	3	4	0	0	0	0
ÖK6	3	1	1	1	3	4	1	4	4	5	3	4	0	0	0	0
ÖK7	2	1	1	1	3	4	1	4	4	5	3	4	0	0	0	0
ÖK8	2	1	3	1	4	4	1	3	4	5	3	4	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					