Course Code (Course Name	urse Name					Laboratory	Credits	ECTS		
GE306 F	REMOTE SENSING				2.00	1.00	0.00	3.00	5.00		
Course Detail											
Course Language	: English										
Qualification Degree	: Bachelor										
Course Type	: Compulsory										
Preconditions	: Not										
Objectives of the Course	approaches a mapping and	bout land use/cover i	mapping, land-use/land- nent etc will be given. Th	nd analytical methods of s cover change analysis, en e primary objective of the	vironmental po	llution, deform	ation monitoring	, urban chan	ge detection a		
Course Contents	satellite image	: The fundamentals of remote sensing, application areas, remote sensing platforms and sensors, data acquisition, storage and processing, pre-processing of satellite images, atmospheric, radiometric and geometric correction of satellite images, The approaches and methods for land use/cover mapping, change detection analysis, pollution monitoring, hazard management.									
Recommended or Required Reading	Thomas Lilles	: Campbell, J. B., 2007, Introduction to Remote Sensing, The Guilford Press, New York, London Thomas Lillesand, Ralph W. Kiefer, Jonathan Chipman, Remote Sensing and Image Interpretation, 2008 John R. Jensen, Introductory Digital Image Processing: A Remote Sensing Perspective, Prentice Hall, New Jersey, 2007									
Planned Learning Activities Teaching Methods	and : face to face										
Recommended Optional Programme Components	: -										
Instructors	: Dr. Öğr. Üyesi	Müge Ağca									
Instructor's Assistants	: -										
Presentation Of Course	: slayt presente	tion									
En Son Güncelleme Tarihi:	:										

Upon the completion of this course a student :

- 1 knowledge on the key concepts and terms used in the field of remote sensing
- $2\,\hbox{They\,will be capable of advising on the best types of remote sensing data for solving geospatial problems}$
- ${\it 3} \ {\it Theywill} \ be \ capaible \ of suggesting \ scales \ and \ analysis \ procedures \ to \ solve \ any \ remote \ sensing \ related \ problems.$
- 4 the knowledge on the problem of how satellite data and data products can be integrated with other spatial data for various types of spatial data analysis.
- 5 How to deal with remote sensing images for RS applications

Preconditions

Course Code	Course Name	Teorical	Practice	Laboratory Credits E	CTS

Weekly Contents

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
1.Week	*Introduction to remote sensing					
2.Week	*Remote sensing applications					
3.Week	*Electromagnetic energy radiation, spectrum					
4.Week	*Electromagnetic radiation sources					
5.Week	*Light, normal, true and false color concept, coloring RS images					
6.Week	*Energy of EMR, EME and matter interaction					
7.Week	*EMR and atmospheric interaction, atmospheric windows					
8.Week	*Midterm Exam					
9.Week	*Radiant flux and irradiance, radiance					
10.Week	*Spectral reflectance of earth surface materials					
11.Week	*reflected energy, reflection factor, refence targets					
12.Week	*Data acquision system					
13.Week	*Earth observing satellites and orbits					
14.Week	*RS image processing					

Assesment Methods % 1 Midterms: 40.000 2 Final: 60.000

ECTS Workload			
	0 1	The all and	O of Woodship and
Activities	Count	Time(Hour)	Sum of Workload
Vize / Midterms	1	1.00	1.00
Final / Final	1	2.00	2.00
Derse Katılım / Attending lectures	14	3.00	42.00
Ders Öncesi Biresysel Çalışma / Individual study before lecture	14	2.00	28.00
Ders Sonrası Biresysel Çalışma / Individual study after lecture	14	3.00	42.00
Ara Sınav Hazırlık / Preparation for midterm	1	15.00	15.00
Final Sınavı Hazırlık / Preparation for final	1	20.00	20.00
		Tota	I: 150.00
	Sum of Workload / 30 (Hour): 5		

Program And OutcomeRelation											
	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11
L.O. 1	4	0	0	0	0	4	0	0	0	0	4
L.O. 2	4	0	0	0	0	4	0	0	0	0	4
O. 3	4	0	0	0	0	5	0	0	0	0	5
O. 4	5	0	0	0	0	5	0	0	0	0	5
L.O. 5	5	0	0	0	0	5	0	0	0	0	5

ECTS: 5.00