Department of Geomatics Engineering / Department of Geomatics Engineering / Department of Geomatics Engineering

Department of Geomatics Eng	ineering / Department of Geomatics Engineering / Department	or Geomatics Engineering					
Course Code	Course Name		Teorical	Practice	Laboratory	Credits	ECTS
GE301	PHOTOGRAMMETRY		3.00	0.00	0.00	3.00	4.00
Course Detail							
Course Language	: English						
<b>Qualification Degree</b>	: Bachelor						
Course Type	: Compulsory						
Preconditions	: Not						
Objectives of the Course	: The objective of this course is to give basic info mathematics of photogrammetry, coordinate sy have basic knowledge for perceive methodolog	stems and geometric transformations,	photogramme	etric measurem	ent and evaluat	ion methods.	
Course Contents	: Definition, content and application of the photogrammetry, geometric principles, coordina principles, lenses, errors and correction method image recording, filters, monoscopic and stered and evaluation, photogrammetric measurement	ate systems and geometric transforma ls for lenses, photographic fundamenta oscopic viewing, natural depth interpre	ation, projection als, photogram	n methods and imetric camera	central perspects and camera c	ctive projection calibration, pho	n, optical otograph and
Recommended or Require Reading	ed : Kraus, K., Photogrammetry I, II, Ümmler, 1997 Manuel of Photogrammery, ASPRS, 2004 Elements of Photogrammetry with Application in	n GIS, Fourth Edition, Paul Wolf, Bon E	DeWitt				
Planned Learning Activitie Teaching Methods	es and : face to face						
Recommended Optional Programme Components	: Attendance is important.						
Instructors	: Dr. Öğr. Üyesi Müge Ağca						
Instructor's Assistants	: There is no instructure's assisstant						
Presentation Of Course	: slayt presentations						
En Son Güncelleme Tarihi	: :						

Course Outcomes

Upon the completion of this course a student :

1 They learn about definition, content and application of the photogrammetry
2 They learn optic, photographic and mathematical principles in photogrammetry
3 They learn coordinate systems and geometric transformations.
4 They learn about stereoscopic viewing and stereoscopic viewing methods.
5 Students shall gain basic knowledge on comprehend methodologies in photogrammetric measurement, evaluation and production.

Preconditions

Course Code

**Course Name** 

Teorical Practice Laboratory Credits

ECTS

	Teorical	Practice	Laboratory	Preparation Inf	fo	Teaching Methods	Course Learning Outcome
1.Week	*Introduction						
	*Brief history, classification of photogrammetry, application areas						
	*Terms and concepts of photogrammetry and mathematical and geometrical basis of photogrammetry						
	*Coordinate systems and system conversions						
	*Projection methods and central perspective projection						
6.Week	*Photogrammetry and optics						
	*Lenses, errors and correction methods						
8.Week	*Midterm Exam						
9.Week	*Photogrametry and photograpy						
	*Photogrammetric cameras and camera calibration						
	*Photograph and image recording, filters						
	*Monoscopic and stereoscopic viewing						
13.Week	*Natural depth interpretation, stereoscopic viewing methods						
	*Photogrammetric measurement and evaluation						
Assesmen	nt Methods %						
1 Midterms	s : 40.000						
2 Final : 60	0.000						
ECTS Wo	rkload						
Activities	;			Count	Time(Hour)	Sum of Workload	l
√ize / Mid	Iterms			1	1.00	1.00	
Final / Final					2.00	2.00	
Derse Katılım / Attending lectures					3.00	42.00	
Ders Önce	esi Biresysel Çalışma / Individual st	udy before lecture		14	2.00	28.00	
Ders Soni	rası Biresysel Çalışma / Individual s	tudy after lecture		14	2.00	28.00	
	Hazırlık / Preparation for midterm			1	5.00	5.00	
Ara Sinav				•			

Sum of Workload / 30 ( Hour ): 4

ECTS: 4.00

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	5	4	0	0	0	5	0	0	0	0	0
L.O. 2	5	4	0	0	0	5	0	0	0	0	0
L.O. 3	5	4	0	0	0	5	0	0	0	0	0
L.O. 4	5	4	0	0	0	5	0	0	0	0	0
L.O. 5	5	4	0	0	0	5	0	0	0	0	0