

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
GE308	PHOTOGRAMMETRY II	2.00	1.00	0.00	3.00	4.00
Course Detail						
Course Language	: English					
Qualification Degree	: Bachelor					
Course Type	: Compulsory					
Preconditions	: Available					
Objectives of the Course	: The objective of this course is to give basic information about aerial photogrammetry methodologies of photogrammetric mapping, orthophoto and Digital Elevation Model (DEM). Students will have basic knowledge about methodologies of each process of the photogrammetric mapping, orthophoto and DEM production project after taking this courses.					
Course Contents	: The project processes of the photogrammetric mapping production with aerial photogrammetry, ground control point planning, targeting and measurement, flight planning and taking aerial photographs, orientation of aerial photographs, aerial triangulation, stereo plotting, horizontal and vertical accuracy, projects for photogrammetric mapping, orthophoto and digital elevation models and 3D Modeling.					
Recommended or Required Reading	: Kraus, K., Photogrammetry I, II, Ümmler, 1997 Manuel of Photogrammetry, ASPRS, 2004 Elements of Photogrammetry with Application in GIS, Fourth Edition, Paul Wolf, Bon DeWitt					
Planned Learning Activities and Teaching Methods	: face to face					
Recommended Optional Programme Components	: attendance is important					
Instructors	: Dr. Öğr. Üyesi Serkan Karakış					
Instructor's Assistants	: There is no instructor's assistant					
Presentation Of Course	: slayt presentation					
En Son Güncelleme Tarihi:	:					

Course Outcomes

Upon the completion of this course a student :

- 1 When students accomplish the course, they gain those; They learn about project processes of photogrammetric mapping,
- 2 They learn orthophoto and DEM products with aerial photogrammetry
- 3 They have basic knowledge about methodologies of how to produce photogrammetric maps.
- 4 They have basic knowledge about methodologies of orthophoto and DEM.
- 5 They gain basic knowledge on aerial photogrammetric applications.

Preconditions

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
GE301	FOTOGRAMETRI I	3.00	0.00	0.00	3.00	4.00

Weekly Contents						
	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
1.Week	*Aerial photogrammetry and mapping					
2.Week	*Images, image scale, tilt, relief displacement					
3.Week	*Basic information: stereomodel, column, block, overlap, sidelap, base and column distance					
4.Week	*Mission planning and management					
5.Week		*Mission planning samples				
6.Week	*Flying height and the base relation, image blur, aerial cameras					
7.Week	*Orientations, interior and exterior orientation					
8.Week		*Midterm Exam				
9.Week	*Aerial triangulation and methods					
10.Week	*Bundle block adjustment and extensions					
11.Week	*Stereoplotting and accuracy assesment					
12.Week	*Automatic processes in photogrammetry					
13.Week	*Photogrammetric map, orthofoto and DTM projects					
14.Week	*photogrammetric applications					

Assesment Methods %
1 Midterms : 40.000
2 Final : 60.000

ECTS Workload			
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	2.00	28.00
Ara Sınav Hazırlık / Preparation for midterm	1	5.00	5.00
Final Sınavı Hazırlık / Preparation for final	1	10.00	10.00
Total :			116.00
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	0	5	0	5	4	0	0	0	0	0	0
L.O. 2	0	5	0	5	4	0	0	0	0	0	0
L.O. 3	0	5	0	5	4	0	0	0	0	0	0
L.O. 4	0	5	0	5	4	0	0	0	0	0	0
L.O. 5	0	5	0	5	4	0	0	0	0	0	0