Surveying Engineering Program Department of Civil Engineering College of Engineering King Saud University



	SE 321 Photogrammetry		
Credit and Contact hours	3 / 2(Lectures); 0(Tutorials); 2(Laboratory) 3(2, 0, 2)		
Required, or Elective	Required for a BSCE degree		
Course Description	Definitions & basic concepts; geometry of aerial photos; stereoscopy; analogue stereoploters; orientation (inner, relative, a map compilation.		
Prerequisites or Co- requisites	SE 212		
Course Learning Outcomes	Students completing this course successfully will be able to		
	Course Learning Outcomes	Related Studen Outcomes (SO	
	CLO1 : Compute survey data from single aerial photo	SO1	
	CLO2: Compute spatial information from stereo photos	SO1	
	CLO3 : Design a flight plan for aerial photography	SO2	
	 by applying principles of engineering, science, and ma modern engineering tools SO2: ability to apply engineering design to produce soluti specified needs with consideration of public health, sa well as global, cultural, social, environmental, and ec 	ons that meet fety, and welfare, as	
Topics Covered	List of Topics	Related CLOs	
	1. Definitions & basic concepts of photogrammetry	CL01	
	2. Geometry of aerial photos	CLO1	
	3. Theory & procedure of stereoscopy	CLO2	
	4. Analogue stereo-plotters: parts and types	CLO2	
	5. orientation (inner, relative, absolute)	CLO2	
	6. Flight planning; map compilation.	CLO3	

Grading System	Tutorials problems and Lab	30%
	2 Mid-Terms	30%
	Final Exam	40%
Instructors	Prof. Ismat El Hasan (2A44); email: <u>ismat@ksu.edu.sa</u>	
Date of Review	Nov, 2020	