

Faculty of Engineering & Technology

Geo-informatics 1

Information:

Course Code: SCM 321 Level: Undergraduate Course Hours: 2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information:		
Title	Name	Office hours
Lecturer	Ahmed Mohamed Abdel Moniem Mohamed Soliman	
Lecturer	Ahmed Mohamed Abdel Moniem Mohamed Soliman	
Assistant Lecturer	SARAH SALAH SAYED HUSSIEN ALI ELSHISHTAWY	2
Assistant Lecturer	Mohamed Ahmed Reda Abas Ahmed	

Area Of Study:

Upon successful completion of this course, the student should be able to:

- Understand the basic concepts and main principles
- Calculate the values of the essential terms
- Carry out the related tests

Regarding photogrammetry image coordinates flight planning photo orientation ground coordinates from photos VL & HL curves setting out projects

Description:

Photogrammetry: Aerial cameras, Vertical photograph, Tilted photograph, Rectification, Photo coordinates refinement, Flight planning, vertical & horizontal curves, setting out of projects

Course ou	tcomes:
a.Knowled	lge and Understanding: :
1 -	Define the main terms of photogrammetry
2 -	Explain the principals of flight planning
3 -	Explain the principals of VL & HL curves
b.Intellect	ual Skills: :
1 -	Calculate the values of image coordinates
2 -	Assess issues of flight planning
3 -	Solve problems regarding photo orientation
4 -	Calculate the values of ground coordinates from photos
5 -	Calculate the values of setting out projects
c.Professi	onal and Practical Skills: :
1 -	Prepare technical reports for photogrammetry



	2 -	Prepare	technical	reports fo	r VL&HI	_ curves
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d.General and Transferable Skills::

1 - Cooperate and communicate effectively

Course Topic And Contents :				
Topic	No. of hours	Lecture	Tutorial / Practical	
photogrammetry	4	2	2	
image coordinates	8	4	4	
flight planning	8	4	4	
photo orientation	8	4	4	
ground coordinates from photos	12	6	6	
VL & HL curves	8	4	4	
setting out projects	8	4	4	
Revision	4	2	2	

Teaching And Learning Methodologies:

Interactive Lec.

Discussion

Problem Solving

Report / Present.

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00		
Mid- Exam I, II	30.00		
Quizzes / Assig.	15.00		
Report / Present.	15.00		

Course Notes :		
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Recommended books:	
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Periodicals:		
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Web Sites :		
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