

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		
Professor	Ayman Fouad Mohammed Ragab	9		
Lecturer	khaled Mahmoud Abdelaziz Mahmoud Boray	1		
Teaching Assistant	Sarah Salah Sayed Hussein Aly Elsheshtawy	2		
Teaching Assistant	Sarah Salah Sayed Hussein Aly Elsheshtawy	2		
Teaching Assistant	Mohamed Yahia Mohamed Abdelkader			

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 outcomes:			
a.Knowledge 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.Intellectu	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.Professional and Practical Skills::

- 1 Prepare technical reports for photogrammetry
- 2 Prepare technical reports for VL & HL curves

d.General and Transferable Skills::

1 - Cooperate and communicate effectively

Course Topic And Contents :			
Topic	No. of hours	s 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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