FUTURE UNIVERSITY IN EGYPT جامعة المستقبل

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.Intellectual 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	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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