

Faculty of Engineering & Technology

Planimetric Surveying 1

Information:

Course Code: SCM 221 Level: Undergraduate Course Hours: 2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information:

Title	Name	Office hours
Associate Professor	Ahmed Emad Hafez Mustafa Raghib	7
Assistant Lecturer	Ahlam Ibrahim Sadek Elgendy	2

Area Of Study:

Æonduct distance measurement operations and their usage in mapping.

ÁJse surveying instruments in mapping and various area computation techniques.

Coordinate computations and manipulations.

Æompute angular measurements using theodolite and Traverse computation.

Description:

Distance measurements and their corrections, Surveying operations using distance measurements, Area computations, Leveling, Grid leveling, Contour maps, Profiles, Cross sections, Volume computations, Angle measurements using theodolites.

Course outcomes :

a.Knowledge and Understanding: :

- 1 Define the main terms of distance measurement
- 2 Describe the main concept of scaling & surveying for mapping
- 3 Explain the principals of theodolite measurements

b.Intellectual Skills: :

- 1 Calculate the values of distance measurement
- 2 Solve problems regarding scaling & surveying for mapping
- 3 Calculate the values of points coordinates
- 4 Calculate the values of site area

c.Professional and Practical Skills: :

- 1 Proceed test steps of the distance measurement
- 2 Demonstrate presentation regarding theodolite measurements
- 3 Proceed test steps of the HL. angular measurements
- 4 Proceed test steps of the traverse



d.General and Transferable Skills: :

1 - Cooperate and communicate effectively

Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
Distance measurement	6	4	2
points coordinates	3	2	1
scaling & surveying for mapping	9	6	3
site area	6	4	2
theodolite measurements	3	2	1
HL. angular measurements	9	6	3
traverse	6	4	2
Revision	3	2	1

Teaching And Learning Methodologies:

Interactive Lec.

Discussion

Problem solving

Lab Exper.

Project

Report / Present

Course Assessment :				
Methods of assessment	Relative weight %	Week No	Assess What	
Final Examination	40.00			
lap exper.	10.00			
Mid Term Examinations	30.00			
quizzes and assignments	10.00			

Course Notes:

report/present

- Handout notes on MOODLE

Recommended books:

- - "Surveying" ,Stanley Raymond, Pearon, Prentice Hall, 1998

10.00

Periodicals:

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