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
Professor	Tamer Fathy Fathallah Ahmed Soror	
Assistant Lecturer	Ahlam Ibrahim Sadek Elgendy	2

Area Of Study :

ÅDistance measurements operations and its usage in mapping.
ÅVarious area computation techniques.
ÅLeveling process and its application.
ÅAngular measurements using theodolite

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 basic concepts of surveying operations
2 -	Primary surveying applications in engineering projects
b.Intellectual Skills: :	
1 -	Ability to derive different solutions for distance measurement obstacles.
2 -	Ability to differentiate between area computational techniques
3 -	Ability to analyze leveling data for elevation calculation
4 -	Usage of leveling for volume computations and grid leveling
c.Professional and Practical Skills: :	
1 -	Ability to distinguish distance measurement tools and instruments.
2 -	Ability to identify different types of surveying levels.
3 -	Ability to categorize surveying level and theodolite screws and parts
4 -	Ability to handle and practically work with the level and theodolite
d.General and Transferable Skills: :	
1 -	The skill and gift of working in team

2 -	Writing and presentation of surveying observations and results

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction	2	1	-
Distance measurement operations	7	2	1
Surveying for mapping	4	1	1
Area Computation	5	2	1
Leveling process	7	2	
Leveling applications	8	3	1
Basic Concept of Theodolite	3	1	-
Angular measurements using theodolite	2	1	-

Teaching And Learning Methodologies :

Lectures

Tutorials

practicals

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
1st mid term	10.00		
2nd mid term	10.00		
final	40.00		
quiz, oral	10.00		
semester work	30.00		

Course Notes :

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Recommended books :

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Periodicals :

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Web Sites :

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