

Faculty of Engineering & Technology

Surveying

Information :

Course Code : SCM 223	Level	:	Undergraduate	Course Hours :	2.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Associate Professor	Abdelwahab Mohamed Abdelwahab Mohamed Amer	1
Assistant Lecturer	Ahlam Ibrahim Sadek Elgendy	1

Area Of Study :

By the end of the course the students will be introduced to:

A Different units systems and how to transform among them.

ÁDistance measurements operations and its usage in mapping.

⁷/AScales used in mapping.

ASurveying application in mapping.

"Á eveling process.

Angular measurements using theodolite.

A heodolite application through Tacheometry.

Description:

Basic elements of surveying and their architectural applications, Plotting scales, verniers, linear of angular and simple angular measurement devices, Chain surveying, Leveling & theodolites, Map drawing, Photogrammetry and its architectural applications.

Course outcomes :

a.Knowled	Ige and Understanding: :		
1 -	Define basic concepts of surveying operations.		
2 -	Adequate knowledge of basic surveying instruments.		
b.Intellect	ual Skills: :		
1 -	Ability to derive various solutions for distance measurement obstacles.		
2 -	Capability to differentiate between mapping scales.		
3 -	Usage of surveying for mapping purposes.		
4 -	Ability to analyze leveling data for elevation calculation.		
5 -	Ability to asses angular measurements.		
c.Professi	onal and Practical Skills: :		
1 -	Ability to distinguish distance measurement tools and instruments.		
2 -	Ability to identify different types of surveying levels.		



3 -	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 -	2 - Writing and presentation of surveying observations and results.	

Course Topic And Contents :

Торіс	No. of hours	Lecture	Tutorial / Practical
Introduction.	4	2	2
Distance measurement operations.	10	5	5
Surveying for mapping.	6	3	3
Usage of scales for mapping.	4	2	2
Coordinate Computation.	4	2	2
Leveling process.	12	6	6
Basic Concept of Theodolite.	4	2	2
Angular measurements using theodolite.	4	2	2

Teaching And Learning Methodologies : Class Lectures. Tutorials. Practicals. Presentations.

Course Assessment :			
Methods of assessment	Relative weight %	Week No	Assess What
Final Examination.	40.00		
Mid Term Examinations.	20.00		
Practical Examination.	10.00		
Semester Work.	30.00		

Course Notes :

No Course Notes.

Recommended books :

Periodicals :

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http://www.fue.edu.eg



Web Sites :