Faculty of Engineering & Technology

Planimetric Surveying 2

Information :

Course Code :	SCM 222	**Level** :	Undergraduate	**Course Hours :**	2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Lecturer	khaled Mahmoud Abdelaziz Mahmoud Boray	1
Assistant Lecturer	Noura Khedr Abdul raheem Ahmed	

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   VL. angular measurements   leveling applications   precise leveling   tachometry   total station   theory of errors

Description :

Traverse, Tachometry, Surveying using plain table, Topographic surveying, Mapping, Horizontal and vertical curves layout, Engineering projects layout, Accuracy of surveying measurements, Probability theory.
Prerequisites : SCM 221

Course outcomes :

a.Knowledge and Understanding: :

1 -	Describe the main concept of precise leveling
2 -	Define the main terms of tachometry
3 -	Explain the principals of theory of errors

b.Intellectual Skills: :

1 -	Calculate the values of precise leveling
2 -	Solve problems regarding theory of errors

c.Professional and Practical Skills: :

1 -	Proceed test steps of the VL. angular measurements
2 -	Proceed test steps of the leveling applications
3 -	Prepare technical reports for tachometry
4 -	Demonstrate presentation regarding total station

d.General and Transferable Skills: :

1 -	Cooperate and communicate effectively

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Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
VL. angular measurements	6	6	0
leveling applications	6	6	0
precise leveling	3	2	1
tachometry	6	4	2
total station	6	4	2
theory of errors	9	6	3
Revision	3	2	1

Teaching And Learning Methodologies :

Interactive Lec
Discussion
Problem Solving
Lab Exper.
Report / Present

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00	15	
Lab Exper.	10.00	6	
Mid- Exam I, II	30.00	3	
Quizzes / Assig	10.00	9	
Report / Present	10.00	11	

Course Notes :

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Recommended books :

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Periodicals :

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Web Sites :

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