

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: :

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|-----|---|
| 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: :

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

c.Professional and Practical Skills: :

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| 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: :

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| 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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