

## Surveying (0901307)

<b>Course Arabic Name:</b>	المساحة
<b>Course Description:</b>	Principles of surveying; linear measurements, chain surveying, leveling and its application in contouring, profiles and cross-sections. Areas, volumes, and earthwork. Measurement of angles; traverse surveys, tachometry and electronic distance measurements (EDM). Theory of errors and adjustments. Principles of triangulation.
<b>Course Credit Hours:</b>	3 hours.
<b>Pre-requisite (ID):</b>	Probability and Statistics (0901206)
<b>Textbook:</b>	Fundamentals of Surveying, by Schmidt and Kam W. Wong (2014) Prof. Yousif Syam.
<b>Reference:</b>	1. Surveying by Bannister and Raymond 2. Surveying Practice by Kissam 3. Elementary Surveying by Brinker and Wolf 4. Site Surveying and Leveling by Clancy 5. Surveying for Civil Engineers by Kissam 6. Surveying Theory and Practice by Davis <i>et. al</i> 7. Fundamentals of Surveying, by Yousif Syam (Arabic Reference)
<b>Coordinator:</b>	Dr. Hesham Al Sharie Mob.0795868090 E-mail: dr.sharie@yahoo.com
<b>Course Contents:</b>	1. Introduction and basic principles of surveying 2. Theory of errors 3. Tape measurements (chain survey) 4. Leveling and contour lines 5. Areas and volumes 6. Mass haul diagram 7. Angle measurement 8. Coordinate geometry 9. Traverses 10. Stadia and total station 11. Land Survey 12. Horizontal control surveys (Triangulation) 13. Electronic distance measurement (EDM) 14. Photogrammetric engineering and remote sensing 15. Construction survey 16. Plane table and laser level 17. Geographic Information Systems (GIS).
<b>Computer Usage:</b>	None
<b>Assessment and Grading:</b>	Assignments, attendance and Quizzes (20%) 2 Exams @ 20% each (40%) Final Exam (40%)
<b>Prepared by:</b>	Dr. Hesham Al Sharie



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CE 307                  Surveying

Text Book: **Fundamentals of Surveying, by Schmidt and Kam W. Wong (2014)**  
**Prof. Yousif Syam.**

Instructor: Dr. Hesham Al Sharie    Mob.0795868090    E-mail: dr.sharie@yahoo.com

### WEEKLY REPORT:

Week	Topic	Chapter Reading Assignments
1/16	Introduction and basic principles of surveying	Chapter 1
2/16	Theory of errors	Chapter 2
3/16	Tape measurements (chain survey)	Chapter 3
4/16	Leveling and contour lines	Chapter 4
5/16	Areas and volumes	Chapter 5
6/16	Mass haul diagram	Chapter 6
7/16	Angle measurement	Chapter 7
8/16	<b>Exam I</b> Coordinate geometry	Chapter 8
9/16	Traverses	Chapter 9
10/16	Stadia and total station	Chapter 10
11/16	Land Survey	Chapter 11
12/16	Horizontal control surveys (Triangulation)	Chapter 12
13/16	<b>Exam II</b> Electronic distance measurement (EDM)	Chapter 13
14/16	Photogrammetric engineering and remote sensing	Chapter 14
15/16	Construction survey, Plane table and laser level, Geographic Information Systems (GIS).	Chapter 15, 16, 17
16/16	<b>Final Exam</b>	