



**Faculty of Engineering – Assiut University
Bachelor Degree**

Civil Engineering Program

Dept. of Civil Engineering

Course specification

1. Course Aim

Main Aim	Give the student important surveying basics and principles of surveying which are useful for him as a civil engineer.
Sub-Aims	Give the student the surveying sense. Give the student the skill of reading and drawing different types of maps. Train the student how to operate traditional and modern surveying equipments.

2. Course Content

Theodolites - Introduction to Tacheometry – Electro and magnetic devices for distance measurements – Adjustment of polar polygons – Horizontal and vertical curves – Applications of topography and plane surveying in civil works.

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3. Course Topics

	Subject	Week
1st topic	Theodolite	1-3
2nd topic	Traversing	4-6
3rd topic	Tacheometers	7-8
4th topic	Total stations	9-10
5th topic	Horizontal and vertical curves	11-14

11.2 Grades Distribution

Assesment Methods		Percentage	
Final Exam		60 %	
Oral Final Exam		15 %	
Assessments	Written Exam	15 %	25 %
	Tutorial assessment	5 %	
	Project assessment		
	Report assessment	5 %	
Total		%100	

4. List of References

Course notes	Abdelhafiz, A., Plane Surveying II, 2010.
Required books	No required books
Recommended books	-Wolf, P.R. and Brinker, R.C. "Elementary Surveying" Harper Collins Publisher, New York, 1994. -William Irvine, F. "Surveying for Construction" The McGraw-Hill Companies, 1995. -Anderson M. James and Mikhail M. Edwaed "Surveying theory and practices", The McGraw-Hill Companies, 1998.
Periodicals, web sites.. etc.	Journal of ISPRS www.isprs.org Journal of Photogrammetric records, http://www.blackwellpublishing.com/journal.asp?ref=0031-868X&site=1