

Course Specifications (2011 - 2012)

A. Basic Information

Course Title	Surveying (2)			Course Code:	SUR 251		
Lecture:	3	Tutorial:	2	Practical	1	Total	6
Programme (s) on which this course is given:	B.Sc. Civil Engineering (General)						
Major or minor element of program:	Major						
Department offering the program:	Civil Engineering						
Department offering the course:	Surveying Engineering						
Academic Year of program:	Second	Level of program:	Second Semester				
Date of specifications approval:	16/3/2010						

B. Professional Information

1. Overall aims of course

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

to learn the concepts of the survey which help the civil engineers to understand the surveying problems.

2. Intended Learning outcomes of Course (ILOs)

a. Knowledge and Understanding:

- a.1) Recognize concepts and theories of mathematics and sciences, appropriate to the discipline.
- a.5) Recognize methodologies of solving engineering problems, data collection interpretation.
- a.8) State current engineering technologies as related to disciplines.
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b. Intellectual Skills

- b.1) Select appropriate mathematical and computer-based methods for modeling and analyzing problems.
- b.2) Select appropriate solutions for engineering problems based on analytical thinking.
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c. Professional and Practical Skills

c.2) Professionally merge the engineering knowledge, understanding, and feedback to improve design, product and/or services.
c.5) Use computational facilities and techniques, measuring instruments, workshops and laboratories equipment to design
c.7) Apply numerical modeling methods to engineering problems.
c.17) Prepare quantity surveying reports.

d. General and Transferable Skills

d.1) Collaborate effectively within multidisciplinary team.
d.3) Communicate effectively.

3. Contents

Week #	Topics	No. of Hours	ILOS	Teaching / learning methods and	Assessment method
1	engineering levelling	2		Lectures	Assignments
			c5,c17		
			d1,d3		
2	engineering levelling	2		Lectures	Assignments
3	contor and different level instrument	2	a1,a8	Lectures	Assignments
			c5,c17		
			d1		
4	contor and different level	2		Practical training / laboratory	Assignments

7	instrument	4			
5	catography	2	a8	Lectures	Assignments
			c2		
			d1		
6	remote sensing and GPS	2	a3	Lectures	Assignments
			c5,c7,c17		
			d1,d3		
7	remote sensing and GPS	2		Lectures	Assignments
8	Midterm Exam	2			Mid-term exam
9	theory of error	2	a1,a5	Lectures	Assignments
			b1,b2		
			c7,c17		
10	theory of error	2		Lectures	Assignments
11	theory of error	2		Lectures	Assignments
12	principles of geodesy	2	a1,a8	Lectures	Assignments
			c5,c17		
13	principles of geodesy	2		Lectures	Assignments

14	photogrametry	2	a8	Lectures	Oral exam
			c5		
			d1,d3		
15	Final Exam				Final exam
Total		28			

4- Teaching and Learning Methods:

Check using the symbol ✓

✓	Lectures
✓	Practical training / laboratory
	Seminar / workshop
✓	Class activity
✓	Case study
	Project work
	Tutorial
	Computer based work
✓	Other :assignments/home work

5- Student Assessment Methods:

Check using the symbol ✓

✓	Assignments	to assess	a1,a5,a8	b1,b2		
✓	Quiz	to assess	a1,a5,a8	b1,b2	c2,c5,c7,c17	
✓	Mid-term exam	to assess	a1,a5,a8	b1,b2	c2,c5,c7,c17	d1,d2
✓	Oral exam	to assess	a1,a5,a8	b1,b2		
✓	Final exam	to assess	a1,a5,a8	b1,b2	c2,c5,c7,c17	d1,d2
	Design Project	to assess				
	Report	to assess				
	Experimental write up	to assess				
	Informally assessment	to assess				
	Other	to assess				

6. Assessment schedule

Assessment 1 Assignments on weeks
 Assessment 2 Quizzes on weeks
 Assessment 3 Mid-term exam on week
 Assessment 4 Oral Exam on week
 Assessment 5 Final exam on week
 Assessment 6 Design Project on weeks

2,5,9,11
4,6,10,12
8
14
15

Assessment 7 Report on weeks
Assessment 8 Experimental write up on weeks
Assessment 9 Informally assessment

7. Weighting of Assessments

Assignments	05%
Quiz	5%
Mid-term exam	10%
Oral exam	20%
Final exam	60%
Design Project	
Report	
Experimental write up	
Informally assessment	
Other	
Total	100%

8. List of References

8.1 Course Notes

course notes praper by instructor

8.2 Essential Books (Text Books)

surveying by Edward Mechaéal

8.3 Recommended Books

8.4 Periodicals Web sites, etc

9. Facilities Required for Teaching and learning

Lecture room equipped with over head projector
presentation board, computer and data show
laboratory

Course Coordinator:

Dr.Mervat Refaat

dr.mervat refaat

Course instructor:

Dr.Mervat Refaat

dr.khalid zaki

Head of department:

Prof. Ahmed AbdulFattah Mahmoud Ahmed

Signature:

Date:

D	M	Y
11	1	2012