Course Specifications (2011 - 2012)

A. Basic Information

Course Title	Civil Drawing				Course Code:	CVE 123	
Lecture:	0	Tutorial:	6	Practical	0	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:			Civil Engineering				
Academic Year of program:	First			Level of program:		Second Semester	
Date of specifications approval:				16/03/2010			

B. Professional Information

1. Overall aims of course

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

Know the basics and techniques of civil engineering drawing, properly draw the connections of steel structural elements and the irrigation structures, translate the design to drawings that are understood by practicing personnel.

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.4) Understand principles of design including elements design, process and/or a system related to specific disciplines.
a.13) Apply Engineering principles in the fields of reinforced concrete and metallic structures analysis and design, geo-techniques,

b. Intellectual Skills

b.1) Select appropriate mathematical and computer-based methods for modeling and analyzing problems.
b.16) Define, plan, conduct and report management techniques.

c. Professional and Practical Skills

c.1) Apply knowledge of mathematics, science, information technology, design, business context and engineering practice to solve
c.3) Create and/or re-design a process, component or system, and carry out specialized engineering designs.
c.5) Use computational facilities and techniques, measuring instruments, workshops and laboratories equipment to design

d. General and Transferable Skills

d.2) Work in stressful environment and within constraints.

3. Contents

Week #	Topics	No. of Hours	ILOS	Teaching / learning methods and	Assessment method
1	Connections of steel structural elements: column base	3	a1	Tutorial	Assignments
			b16		
2	Connections of steel structural	3	a1,a4	Tutorial	Assignments
			b1		

2	elements: beam-to-beam	3	c3		
3	Connections of steel structural elements: beam-to-beam	3	a1,a4,a13	Tutorial	Assignments
			c1,c3		
4	Connections of steel structural elements: beam-to-column	3	a1,a4,a13	Tutorial	Assignments
			c1,c3		
5	Connections of steel structural elements: beam-to-column	3	a1,a4	Tutorial	Assignments
			b16		
6	Connections of steel structural elements: built-up steel section	3	a1,a4,a13	Tutorial	Assignments
			b1,b16		
			c1,c3		
7	Connections of steel structural elements: built-up steel section	3	a1,a4	Tutorial	Assignments
			b1,b16		
8	Midterm Exam	3	a1,a4,a13		Mid-term exam
			b1,b16		
			c1,c3,c5		
			d2		
9	Canal systems	3	a1,a4,a13	Tutorial	Assignments
			b1,b16		
10	Drainage systems	3	a1,a4,a13	Tutorial	Assignments
			b1,b16		

11	Intersection of canals by syphon	3	a1,a4,a13	Tutorial	Assignments
			b1,b16		
12	Intersection of canal with road by culvert	3	a1,a4,a13	Tutorial	Assignments
			b1,b16		
			c1,c3,c5		
13	Intersection of canals by bridge system.	3	a1,a4	Tutorial	Assignments
			b1		
14	Application by computer AutoCAD program	3	a13	Tutorial	Assignments
			c5		
15	Final Exam	3	a1,a4,a13		Final exam
			b1,b16		
			c1,c3,c5		
			d2		
Total		**45**			

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 :

5- Student Assessment Methods:

Check using the symbol √

√	Assignments	to assess	a1,a4,a13	b1,b16	c1,c3,c5	
	Quiz	to assess				
√	Mid-term exam	to assess	a1,a4,a13	b1,b16	c1,c3,c5	d2
	Oral exam	to assess				
√	Final exam	to assess	a1,a4,a13	b1,b16	c1,c3,c5	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	1,2,3,4,5,6,7,9,10,11,12,13,14
Assessment 2 Quizzes on weeks	
Assessment 3 Mid-term exam on week	8
Assessment 4 Oral Exam on week	
Assessment 5 Final exam on week	15
Assessment 6 Design Project on weeks	
Assessment 7 Report on weeks	
Assessment 8 Experimental write up on weeks	
Assessment 9 Informally assessment	

7. Weighting of Assessments

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

8. List of References

8.1 Course Notes

Course notes prepared by instructor

8.2 Essential Books (Text Books)

8.3 Recommended Books

1- Elalfy, Y.M., “Civil Drawing for Students and Engineers”, El Hakeem Pub., 1st ed,
2- Steel and Irrigation Drawing, Cairo University Press.
3- AutoCAD manuals.

8.4 Periodicals Web sites, etc

9. Facilities Required for Teaching and learning

Presentation board, computer and data show

Course Coordinator:	Dr. Mohamed Salah Soliman	
Course instructor:	Dr. Emad Emam Hassan Darwish	Dr. Moumed Mamoud Ibrahem
Head of department:	Prof. Ahmed AdbulFattah Mahmoud Ahmed	

Signature:

	D	M	Y
Date:	20	1	2012