Course Specifications (2011 - 2012)

A. Basic Information

Course Title	Structural Analysis (1-A)				Course Code:	CVE 111	
Lecture:	3	Tutorial:	3	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:		First 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 GAIN THE FUNDAMENTAL SKILLS REQUIRED FOR THE ANALYSIS OF STATICALLY DETERMINATE PLANER STRUCTURES SUBJECTED TO GENERAL CASE OF LOADING

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.

b. Intellectual Skills

b.2) Select appropriate solutions for engineering problems based on analytical thinking.

c. Professional and Practical Skills

d. General and Transferable Skills

3. Contents

Week #	Topics	No. of Hours	ILOS	Teaching / learning methods and	Assessment method
1	elements of plane statics	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam

2	elements of plane statics	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
3	reactions of plane strcuctures	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
4	reactions of plane strcuctures	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
5	reactions of plane strcuctures	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
6	internal forces in statically determinate beams	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
7	internal forces in statically determinate beams	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
8	Midterm Exam		a1		
			b2		
9	internal forces in statically determinate beams	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
			a1	Lectures	Assignments

10	internal forces in statically determinate beams	3	b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
11	statically determiate plane trusses	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
12	statically determiate plane trusses	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
13	statically determiate plane trusses	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
14	statically determiate plane trusses	3	a1	Lectures	Assignments
			b2	Class activity	Quiz
				Tutorial	Mid-term exam
					Final exam
15	Final Exam		a1		
			b2		
Total		**39**			

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	b1	c1	d1
√	Quiz	to assess	a1	b1	c1	d1
√	Mid-term exam	to assess	a1	b1	c1	d1
	Oral exam	to assess	a1	b1	c1	d1
√	Final exam	to assess	a1	b1	c1	d1
	Design Project	to assess	a1	b1	c1	d1
	Report	to assess	a1	b1	c1	d1
	Experimental write up	to assess	a1	b1	c1	d1
	Informally assessment	to assess	a1	b1	c1	d1
	Other	to assess	a1	b1	c1	d1

6. Assessment schedule

Assessment 1 Assignments on weeks	2 to 14
Assessment 2 Quizzes on weeks	2 TO 14
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	10%
Quiz	10%
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

Lecture notes and selected handouts are distributed to students

8.2 Essential Books (Text Books)

F OTHMAN & A BAZARA A. ELEMENTRAY STRUCTURAL ANALYSIS,505 PP,
W M EL DAKHAKHNI, THEORY OF STRUCTURES, DAR EL MAAREF, 387
H EMAM, FUNDAMENTAL THEORY OF STRUCTURES, DAR EL NAHDA , 172

8.3 Recommended Books

8.4 Periodicals Web sites, etc

9. Facilities Required for Teaching and learning

Lecture room equipped with overhead projector
Presentation board, computer and data show

Course Coordinator:	Prof. Osama Ahmed Kamal Mahmoud	
Course instructor:	Dr. Adel ALHendy AlGhaly Radwan	
Head of department:	Prof. Ahmed AdbulFattah Mahmoud Ahmed	

Signature:

	D	M	Y
Date:	4	1	2012