Course Specifications (2011 - 2012)

A. Basic Information

Course Title	Construction Project Management				Course Code:	CVS 414	
Lecture:	3	Tutorial:	3	Practical	0	Total	6
Programme (s) on which this course is given:				B.Sc. Civil Engineering (Structures)			
Major or minor element of program:			Major				
Department offering the program:			Civil Engineering				
Department offering the course:			Civil Engineering				
Academic Year of program:	Fourth			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:

Introduction to construction project management from owners and contractor's perspectives in organizing planning, design, construction and operation as an integrated process.
- Examination of labor productivity, material management and equipment

2. Intended Learning outcomes of Course (ILOs)

a. Knowledge and Understanding:

a.5) Recognize methodologies of solving engineering problems, data collection interpretation.
a.7) Name business and management principles relevant to engineering.
a.8) State current engineering technologies as related to disciplines.
a.12) Recognize contemporary engineering topics.
a.15) Recognize Projects and construction management including planning, finance, bidding and contracts.

b. Intellectual Skills

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

b.3) Think in a creative and innovative way in problem solving and design.
b.7) Solve engineering problems, often on the basis of limited and possibly contradicting information.
b.16) Define, plan, conduct and report management techniques.
b.17) Assess and evaluate different techniques and strategies for solving engineering problems.

c. Professional and Practical Skills

c.2) Professionally merge the engineering knowledge, understanding, and feedback to improve design, product and/or services.
c.9) Demonstrate basic organizational and project management skills.
c.11) Exchange knowledge and skills with engineering community and industry.
c.12) Prepare and present technical reports.
c.15) Practice professionally construction management skills. Prepare technical draft and detailed drawings both manually and

d. General and Transferable Skills

d.1) Collaborate effectively within multidisciplinary team.
d.3) Communicate effectively.
d.6) Effectively manage tasks, time, and resources.
d.7) Search for information and engage in life-long self learning discipline.
d.8) Acquire entrepreneurial skills.

3. Contents

Week #	Topics	No. of Hours	ILOS	Teaching / learning methods and	Assessment method
1	Introduction to Construction Project Management	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Class activity	Quiz
			c2, c9, c12	Case study	Mid-term exam
			d1, d3, d8	Project work	Final exam

2	Contracts & Tenders	4	a5, a7, a8	Lectures	Assignments
			b2, b7	Case study	Quiz
			c2, c11, c15	Class activity	Mid-term exam
			d6, d7, d8	Project work	Final exam
3	Cost Estimate	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Case study	Mid-term exam
			c2, c9, c12	Class activity	Oral exam
			d1, d3, d8	Project work	Final exam
4	Cost Estimate	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Case study	Mid-term exam
			c2, c9, c12	Class activity	Oral exam
			d1, d3, d8	Project work	Final exam
5	Planning & Schedualing	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Case study	Mid-term exam
			c2, c9, c12	Class activity	Oral exam
			d1, d3, d8	Project work	Final exam
6	Planning & Schedualing	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Case study	Oral exam
			c2, c9, c12	Class activity	Final exam
			d1, d3, d8	Project work	
7	Planning & Schedualing	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Case study	Oral exam
			c2, c9, c12	Class activity	Final exam
			d1, d3, d8	Project work	
8	Midterm Exam				
9	Resource Management	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Class activity	Oral exam
			c2, c9, c12	Project work	Final exam
			d1, d3, d8		
			a5, a7, a12	Lectures	Assignments

10	Resource Management	4	b2, b3, b7	Practical training / laboratory	Oral exam
			c2, c9, c12	Class activity	Final exam
			d1, d3, d8	Project work	
11	Resource Management	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Practical training / laboratory	Oral exam
			c2, c9, c12	Class activity	Final exam
			d1, d3, d8	Project work	
12	Time Reduction & Time Control	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Case study	Oral exam
			c2, c9, c12	Class activity	Final exam
			d1, d3, d8	Project work	
13	Time Reduction & Time Control	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Seminar / workshop	Oral exam
			c2, c9, c12	Class activity	Final exam
			d1, d3, d8	Project work	
14	Cost Control & Finance	4	a5, a7, a12	Lectures	Assignments
			b2, b3, b7	Seminar / workshop	Oral exam
			c2, c9, c12	Class activity	Final exam
			d1, d3, d8	Project work	
15	Final Exam				
Total		**52**			

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	a5, a7, a12	b2, b3, b7		d6, d7, d8
√	Quiz	to assess	a5, a7, a12	b2, b3, b7		d1, d7, d8
√	Mid-term exam	to assess	a5, a7, a12	b2, b3, b7		d6, d3, d8
√	Oral exam	to assess	a5, a15	b7	c2, c9, c15	d6, d7, d8
√	Final exam	to assess	a5, a7, a12	b2, b3, b7	c9, c15	d6, d7, d9
	Design Project	to assess				
√	Report	to assess	a5, a15		c2, c9	d1, d3
	Experimental write up	to assess				
	Informally assessment	to assess				
	Other	to assess				

6. Assessment schedule

Assessment 1 Assignments on weeks	2, 5, 9, 11
Assessment 2 Quizzes on weeks	4, 6, 10, 12
Assessment 3 Mid-term exam on week	8
Assessment 4 Oral Exam on week	14
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	5%
Quiz	5%
Mid-term exam	20%
Oral exam	10%
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)

Eldosouky, Adel I. (1996). Principles of Construction Project
Gould, Frederick E. (1997). Managing the Construction Process: Estimating,

8.3 Recommended Books

Awani, Alfred O. (1988). Project Management Techniques. Petrocelli Books Inc.
Clough, Richard H. & Sears, Gelen A. (1979). Construction Project Management.
Cormican, David. (1985). Construction Management: Planning and Finance.
Pilcher, Roy. (1992). Principles of Construction Management. Mc-Graw Hill Book

8.4 Periodicals Web sites, etc

Journal of construction management, American Society of Civil Engineers, USA.
www.ASCE.org

9. Facilities Required for Teaching and learning

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

Course Coordinator:	Dr. Samia Ali Mohamed Ali	
Course instructor:	Dr. Samia Ali Mohamed Ali	
Head of department:	Prof. Ahmed AdbulFattah Mahmoud Ahmed	

Signature:

	D	M	Y
Date:	31	12	2011