

Course Specifications (2011 - 2012)

A. Basic Information

Course Title	Sanitary Engineering			Course Code:	CVS 422		
Lecture:	3	Tutorial:	2	Practical	0	Total	5
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:	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:

Know how to treat drinking water and waste water

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.
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b. Intellectual Skills

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

b.4) Combine, exchange, and assess different ideas, views, and knowledge from a range of sources.

b.7) Solve engineering problems, often on the basis of limited and possibly contradicting information.

c. Professional and Practical Skills

c.3) Create and/or re-design a process, component or system, and carry out specialized engineering designs.

d. General and Transferable Skills

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

d.3) Communicate effectively.

3. Contents

Week #	Topics	No. of Hours	ILOS	Teaching / learning methods and	Assessment method
1	water sources&water consumption	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
			d2,d3		

2	purification works diagram	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
			d2,d3		
3	design of collection works	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
			d2,d3		
4	design of alum works	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
			d2,d3		
5	coagulation	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
			d2,d3		
6	flocculation	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
			d2,d3		
7	sedimentation	3	a5,a7,a8	Lectures	Report
			b2,b4,b7		
			c3		
			d2,d3		
8	Midterm Exam				
9	filtration	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
			d2,d3		
			a5,a7,a8	Lectures	Assignments

10	disinfection	3	b2,b4,b7		
			c3		
			d2,d3		
11	pipe net works	3	a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
			c3		
12	design of pipes	3	d2,d3		
			a5,a7,a8	Lectures	Assignments
			b2,b4,b7		
13	hydroulogy of wells	3	c3		
			d2,d3		
			a5,a7,a8	Lectures	Assignments
14	waste water treatment	3	b2,b4,b7		
			c3		
			d2,d3		
15	Final Exam		a5,a7,a8	Lectures	
			b2,b4,b7		
			c3		
Total		39			

4- Teaching and Learning Methods:

Check using the symbol

<input checked="" type="checkbox"/>	Lectures
<input type="checkbox"/>	Practical training / laboratory
<input type="checkbox"/>	Seminar / workshop
<input type="checkbox"/>	Class activity
<input type="checkbox"/>	Case study
<input type="checkbox"/>	Project work
<input checked="" type="checkbox"/>	Tutorial

	Computer based work
	Other :

5- Student Assessment Methods:

Check using the symbol \checkmark

\checkmark	Assignments	to assess	a5,a7,a8	b2,b4,b7	c3	d2,d3
	Quiz	to assess				
\checkmark	Mid-term exam	to assess	a5,a7,a8	b2,b4,b7	c3	d2,d3
	Oral exam	to assess				
\checkmark	Final exam	to assess	a5,a7,a8	b2,b4,b7	c3	d2,d3
	Design Project	to assess				
\checkmark	Report	to assess	a5,a7,a8	b2,b4,b7	c3	d2,d3
	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
 Assessment 7 Report on weeks
 Assessment 8 Experimental write up on weeks
 Assessment 9 Informally assessment

8
15

7. Weighting of Assessments

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

Total

100%

8. List of References

8.1 Course Notes

notes in saintary engineering

8.2 Essential Books (Text Books)

8.3 Recommended Books

8.4 Periodicals Web sites, etc

9. Facilities Required for Teaching and learning

Course Coordinator:

Associate Prof. Badr AIDin Ezzat Emam Higazi

Course instructor:

Dr. Rehab Mohamed Mahmoud AlHefny

Head of department:

Prof. Ahmed AdbulFattah Mahmoud Ahmed

Signature:

Date:

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