

Course specifications of Chemistry
(B 142) 2009 / 2010

University Banha

Benha Faculty of engineering

Program on which the course is given: All programs

Major or Minor elements of program.

Department offering the program: All departments

Department offering the course: Department of Basic Science

Academic Year / Level: First year, second semesters

Date of specification approval: / / 2009

A – Basic Information

Title: chemistry

Code: B142

Credit Hours: N. A

Lecture: 2

Tutorial: 1

Lab: 1

B – Professional Information

1. Overall aims of the course

By the end of this course the student will be able to:

Drive, Know and use the main theories dealing with the structure of:

Electrochemistry, Water treatment, Thermodynamic, cement, Chemical Explosive, lubricants and detergents , polymers, organic chemistry, chemical kinetics and chemical equilibria.

2. Intended Learning Outcomes of course (ILOs)

a- Knowledge and understanding

Understand basic chemical theories and laws.

b – Intellectual skills

Solve problems in the field of basic physical and Applied Engineering chemistry

Suggest alternative solutions for chemical problems.

c- Professional and practical skills

Achieve high degree of experimental preparation of some polymers

d- General and transferable skills

Practice to make scientific chemical report

3- Contents

(II)

contents	No of weeks	No of hours	Lecture(hr)	Tutorial	Experimental
Electrochemistry	٢	8	ξ	ξ	
Water treatment	١	ξ	٢		٢
Thermodynamic	٢	٨	ξ	ξ	
cement	١	ξ	٢		٢
Chemical Explosive	١	ξ	٢		٢
lubricants and detergents	٢	٨	ξ		ξ
polymer.	٢	٨	ξ		٢ ξ
Chemical kinetics	٢	٨	ξ	ξ	
Chemical equilibria	٢	٨	ξ	ξ	

4. teaching and learning methods

- (a) Lectures
- (b) Class tutorials
- (c) Experimental

5. Student's assessment methods

- (a) Midterm examination
- (b) Assignments and quizzes
- (c) Final examination

5.1 assessment schedule

Weekly

5.2 Weighting of assessments

Experimental	٢٠%
Midterm examination	20%
Final examination	60%

6- List of references

6.1 course notes

Chemistry staff members, " Chemistry for Engineering Students"

6.2 Essential books (text books)

Chemistry for engineering and applied science -

7- Facilities required for teaching and Learning

* Powerful data projectors.

Course coordinator: Prof. Dr. M.N.Ismail

Head of department: Prof. Dr. Hassan Nasr A. Ismail

Date: / / 2009