

Course specifications of Chemistry
(B 141) 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, first semesters

Date of specification approval: / / 2009

A – Basic Information

Title: chemistry

Code: B141

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:

The Gaseous state, the liquid state, the solution state, Acids and Bases, Desalination,
Petroleum Based industry, Solid state.

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

c1- Achieve high degree of accuracy in basic practical analytical chemistry

c2- Achieve high degree of experimental identification of organic compounds

d- General and transferable skills

Practice to make scientific chemical report

3- Contents

(I)

contents	No of weeks	No of hours	Lecture(hr)	Tutorial	Experimental
The Gaseous state	3	12	٦	٤	٢
The liquid state	٢	٨	٤	٢	٢
the solution state	٢	٨	٤	٤	
Petroleum based industries	٢	٨	٤		٤
Desalination	١	٤	٢		٢
acids&bases	١	٤	٢	٢	
Solid state	١	٤	٢		٢
Organic chemistry basic concepts	٢	٨	٤		٤
hydrocarbons	١	٤	٢		٢

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