Course specifications of Chemistry
(B 14) 2009 / 2010

University Banha

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
Credit Hours: N. A
Tutorial: 1
Code: B142
Lecture: 2
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

<table>
<thead>
<tr>
<th>contents</th>
<th>No of weeks</th>
<th>No of hours</th>
<th>Lecture(hr)</th>
<th>Tutorial</th>
<th>Experimental</th>
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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: 22%
- 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