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
Credit Hours: N. A
Tutorial: 1
Code: B141
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:
   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

<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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</thead>
<tbody>
<tr>
<td>The Gaseous state</td>
<td>3</td>
<td>12</td>
<td>×</td>
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<tr>
<td>The liquid state</td>
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<td>the solution state</td>
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<tr>
<td>Petroleum based industries</td>
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<tr>
<td>Desalination</td>
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<td>×</td>
<td>×</td>
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<tr>
<td>acids&amp;bases</td>
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<tr>
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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: × %
- 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