Course Specifications

Programme(s) on which the course is given B.sc.chemistry
Major or Minor element of programmes: Major
Department offering the programme: Chemistry
Department offering the course: Chemistry
Academic year / Level: First
Date of specification approval: 2013

A- Basic Information

Title: Practical Physical, inorganic and analytical chemistry
Code: CH 176
Credit Hours:2h Lecture: 0
Tutorial: 4 Practicals: 2h Total: 4h

B- Professional Information

1 – Overall Aims of Course

provide the graduate with the essential knowledge about acid base radicals and their investigation and separation of their mixture.

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

After completing the course the graduate should be able to

a1- know the sub- group of acid radicals (dilute hydrochloric acid – concentrated H2SO4 gp. and general group) .

a2- Know the basic radicals(group I, II , III , IV , V and VI)

a3- Study the separation of the mixture of different acid and base radical .

b- Intellectual Skills

b1- build the graduates capability for experimental work

b2- Improve the capability of graduates to identicate a salt of inorganic compound

b3- Improve the capability of thinking of graduates in the field of qualitative chemistry

c- Professional and Practical Skills

c1- Be familiar with the basic rules of laboratory works

c2-Be able to deal with anions and cations

c3- Be familiar with experiment has been done on the application of qualitative analysis

d- General and Transferable Skills

d1-Enhance the experimentation of identification inorganic salts.

3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Investigation of acidic radical	12	0	12
Investigation of basic radical	12	0	12
revision	4	0	4
Separation of mixture	12	0	12
General revision	12	0	12

4– Teaching and Learning Methods

4.1 Lab experimentations

5- Graduate Assessment Methods

5.1 written examination to assess the understanding

5.2- practical exam to assess the performance

Assessment Schedule

Assessment 1 short exam (class activities) Week every two weeks

Assessment 2 mid-term (practical) Week 8

Assessment 3 final-term (practical) Week 13 and 14

Weighting of Assessments

Mid-Term Examination 20%

Final-term Examination 60%

Semester Work 20%

Total 100%

7- Facilities Required for Teaching and Learning

Laboratories

Course Coordinator:

Head of Department: Prof. Dr. / Adel Nassar

Date: / /