Course Specifications

Programme(s) on which the course is given B. Sc. (CH, CH+PH, CH+P, CH+Mi, CH+Z, CH+Bio and CH+In)

Major or Minor element of programmers Major

Department offering the programmer: Chemistry

Department offering the course: Chemistry

Prerequisite: CH122

Academic year / Level: Second

Date of specification approval: 2013

A- Basic Information

Title: Chemistry of Non Transition Elements Code: CH 222

Credit Hours: 2h Lecture: 1.5

Tutorial: 1 Practicals:2 Total: 2h

B- Professional Information

1 – Overall Aims of Course

1- Understand what non-transition element means .

2- Understand the all chemically and physical then the graduate should be finished basis of inorganic chemistry and properties of non transition elements and their uses and extraction .

2 – Intended Learning Outcomes of Course (ILOs)

a- Knowledge and Understanding:

After completing the course the graduate should be able to

a1- know the groups of non transition elements.

a2- Understand the general properties .

a3- Know their electronic configuration ,oxidation and reactions.

b- Intellectual Skills

b1- Building the graduates capability for non transition elements

b2-Be a ware about their vital uses in different fields

b3- Improvement the capability of graduates to determine different properties for non transition elements

c- Professional and Practical Skills

c1- Be familiar with the basic principles of non transition elements

c2- Be able to write electronic configuration of these elements

d- General and Transferable Skills

d1-Enhance the knowledge of graduate of non-transition element, their properties, their uses, and their natural sources.

3- Contents

Topic	No. of Hours	lecture	Tutorial / practical
General properties of non transition elements	4	4	-
gp.(I A) (alkine metals)	2	2	-
Gp.(II A) (alkine earth metals	2	2	-
Gp. (IB)	2	2	-
Gp. (II B)	2	2	-
Gp. (III B)	2	2	-
Gp. (IV B)	2	2	-
Gp. (V B)	2	2	-
Gp. (VI B) , gp. (VII)	4	4	-
Noble gases	4	4	-

4– Teaching and Learning Methods

4.1- lectures

5- Graduate Assessment Methods

5.1 written examination to assess the understanding and comprehension

5.2- Oral discussion.

Assessment Schedule

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

Assessment 2 mid-term (written) Week 8

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

Weighting of Assessments

Mid-Term Examination	**20%**
Final-term Examination	**60%**
Semester Work	**20%**
Total	**100%**

6- List of References

6.1- Cotton of inorganic chemistry

2- Basic Inorganic Chemistry, F. Albert Cotton and Geoffrey Wilkinson, John Wiley & Sons Inc, New York London Sydney Toronto

7- Facilities Required for Teaching and Learning

over head projector, teaching theatre

Course Coordinator: Prof. Dr. / Abdo S. El-Table

Head of Department: Prof. Dr. / Adel A. Nassar

Date: / /