# **Course Specifications**

Programme(s) on which the course is given M.SC.Chemistry

Major or Minor element of programmes major

Department offering the programme chemistry

Department offering the course chemistry

Academic year / Level

Date of specification approval 2012

## **A- Basic Information**

Title: Alicyclic chemistry Code: CH6415

Credit Hours: 2 Lecture:1

Tutorial: 1 Practicals:0 Total:2

### **B- Professional Information**

# 1 - Overall Aims of Course

- Understanding the principle of nomenclature of cycloalkanes and bicycloalkanes.
- Understanding the confirmation of substituted cycloalkanes and understanding different methods of preparation of alicyclic compounds.

# 2 – Intended Learning Outcomes of Course (ILOs)

# a- Knowledge and Understanding:

After completing the course the student should be able to

- a1- Know the a1knowledge of nomenclature
- a2- confirm the alicyclic compounds
- a3- Study different methods of preparation of alicyclic compounds

#### **b-** Intellectual Skills

- **b1** Predict the reaction mechanism of cyclo and bicycle alkanes.
- **b2** Differentiate between the different methods of preparation of alicyclic compounds.

#### c- Professional and Practical Skills

**c1-**Be familiar with has been written on the improvement and applications of alicyclic compounds.

# d- General and Transferable Skills

d1-Enhance the written and oral communications capability

#### - 3- Contents

Topic	No. of hours	Lecture	Tutorial/Practical
Introduction to alicyclic with	2	2	-
examples			
Nomenclature of spiro and bicyclic preparation	10	10	-
applications	8	8	-
Methods of	8	8	-
alicyclic			
preparation			

# **4– Teaching and Learning Methods**

#### 4.1-lectures

## **5- Student Assessment Methods**

5.1 written exam to assess the understand, performance and scientific thinking.

#### **Assessment Schedule**

Assessment 1 short exam (class activities) Week every week Assessment 2 mid-term (written) Week 7 Assessment 3 final-term (written) Week 14

# **Weighting of Assessments**

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

## 6- List of References

Reinhard Bruckner, Advanced Organic Chemistry, Reaction Mechanisms, Elsevier, 2002

# 7- Facilities Required for Teaching and Learning

Overhead projector

**Course Coordinator: Dr. Farag Elessawy** 

Head of Department: Prof. Ahmed Abd-Elmged

Date: / /