

University : **Benha** Faculty : **Science**

Course specifications:

Programme on which the course is given entomology/chemistry

Major or minor element of programme. Major

Department offering the programme chemistry

Department offering the course Chemistry

Academic year/level **2<sup>nd</sup> year , 1<sup>st</sup> semester**

Data of specification approval

### **A- Basic Information**

Title : Practical organic chemistry code : **232 CH**

Credit Hours: Lecture :

Tutorial: practical : 4 hr/w Total : 4 hr/w

### **B – Professional Information**

**1- overall aims of course : At the end of this practical course the students able to provide on understanding of identification of organic solids and liquid compounds**

**2- Intended learning outcomes of course (ILOs)**

**a- Knowledge and understanding : able to**

a1- study physical properties of organic compounds.

a2- study chemical properties of organic compounds

a3- separation and identification of liquid and solid organic compounds

**b- Intellectual skills : able to**

b1- Handle treatment with liquid organic compounds

b2 - Handle treatment with solid organic compounds

b3- Identify of organic compounds

**c- Professional and practical skills able to**

c1- Chose the proper reagents with identification of organic compounds

c2- Distinguish between different types of organic liquids

c3- Distinguish between different types of organic solids

**d- General and transferable skills : able to**

d1- Use the computer

d2- Communicate with topics and internet

d3- Community linked thinking

### **3- Contents**

<b>Topic</b>	<b>No. of Hours</b>	<b>Lecture</b>	<b>Tutorial /practical</b>
Physical properties of organic compounds	4		0/4
Hydrocarbons	8		0/8

Alcohols and acids	8		0/8
Aldehyde and ketones	8		0/8
Aliphatic acid solid	8		0/8
Salts of acids and aniline salts	8		0/8
Carbohydrates	4		0/4
Total	48		0/48

#### 4- Teaching and learning methods

- 4.1- Practical
- 4.2 Discussion
- 4.3 Field exercise
- 4.4 .....

#### 5- Student assessment methods

- 5.1 Discussions to assess applying and evaluating the information
- 5.2 Practical to assess the acquired profession skills
- 5.3 Mid term exam to assess understanding **intellectual** skills
- 5.4-End of term exam to assess knowledge with understanding

#### 2-Assessment Schedule

Assessment 1: Discussions	Week 1-12
Assessment 2: Essay	Week 3
Assessment 3: Mid term	Week 7
Assessment 4: Final exam	Week 14

#### weightings of assessments

Mid term examination	10	%
Final term examination	-	%
Oral examination	10	%
Practical examination	60	%
Semester work	20	%
Other types of assessment		%
Total	100	%
Any formative only assessment		

#### 6- List of references

##### 6.1 Course notes

##### 6.2 Essential book (text books )

Vogel;s Textbook of Practical Organic Chemistry; 5<sup>th</sup> edn; ELBS,Logman 1996

##### 6.3- Recommended books

Vogel;s Textbook of Practical Organic Chemistry; 5<sup>th</sup> edn; ELBS,Logman 1996

##### 6.4- Periodical web sites ... etc.

**Google.com**

**7- Facilities requires for teaching and learning**

Equipments and apparatus glasses

**course coordinator: Dr. M. H. Ahmed**

**head of department**

**Date :    /    /**