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

Course specifications :

Programme on which the course is given Chemistry & Phys

Major or minor element of programme. Major

Department offering the programme chemistry

Department offering the course Chemistry

Academic year/level **2nd year , 1st semester**

Data of specification approval 2008

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 :

a1- study physical properties o f organic compounds.

a2- study chemical properties of organic compounds

a3- separate and identify of liquid and solid organic compounds

b- Intellectual skills :

b1- Treat with liquid organic compounds

b2 - Treat with solid organic compounds

b3- Identify of organic compounds

c- Professional and practical skills

c1- Chose the proper reagents with identification of organic compoundds

c2- Distinguish between different types of organic liquids

c3- Distinguish between different types of organic solids

d- General and transferable skills :

d1- good handling with organic reagents

d2- Analyze data

d3- Observe results

3- Contents

Topic	No. of Hours	Lecture	Tutorial /practical
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 Following discussion **to assess carefully handling with reagents**

5.2 Quiz **to asses** under standing of practical work

5.3 Midterm **to assess** qualification of practical handling

5.4 Quiz **to asses** theoretically information of practical course

assessment schedule

assessment 1 Quiz week **3**

assessment 2 Discussion week **6**

assessment 3 Midterm week **7**

assessment 4 Quiz 2 week **13**

weightings of assessments

Mid term examination 10 %

Final term examination - %

Oral examination 10 %

Practical examination	60	%
Semester work	20	%
Total	100	%

Any formative only assessment

6- List of references

6.1 Course notes

6.2 Essential book (text books)

- Vogel;s Text book of practical organic compounds 5th edn., John Wiley and Sons Inc.(1989)

6.3- Recommended books

- Vogel;s Text book of practical organic compounds 5th edn. (1989)

6.4- Periodical web sites … etc.

Science direct, google.com; Chemweb.com

7- Facilities requires for teaching and learning

Equipments and apparatus glasses

course coordinator:

Dr. M. H. Ahmed

head of department

date : / /