



Department of ... General Science.

College ofBasic Education .

University ofSalahaddin

Subject:Organic Chemistry.

Course Book : (3- stage)

Lecturer's name, MSc, Snowber M. Ahmed

Academic Year (2022– 2023)

Course Book

1. Course name	Organic Chemistry
2. Lecturer in charge	L. Snowber M. Ahmed
3. Department/ College	General Science / Basic education collage
4. Contact	e-mail: snowber.ahmed@su.edu.krd Tel: 0754026887
5. Time (in hours) per week	Theory: 2 Practical: 3
6. Office hours	10 hrs
7. Course code	
8. Teacher's academic profile	In 1997 graduated from chemistry department in Education college / Salahaddin University ,in 2004 I started worked in Koya Technical Instituted as assist lecturer after qualify master's degree in Biochemistry from Baghdad University Ibn-Alhaitham college ,in 2009 I was admission to academic staff of general science department from basic education college .
9. Keywords : Alkanes, Alkenes, alkynes, Aromatics	
10. Course overview:	
<p>- This course will exposing the light on the organic molecules in chemistry. This course discuss the nature of carbon atom and the ability of its orbital to receive additional electrons.</p> <p>The importance of organic compounds and the methods used in their preparation.</p> <p>The types of reactions involved in organic molecules and the reasons of differences.</p>	
11. Course objective:	
<p>To distinguish between the organic and inorganic molecules, the effect of bond type in determining the type of reaction in organic molecules.</p> <p>In addition the types of groups existing in an aromatic ring in determining the type of substitution ortho, para, or meta.</p>	

12. Student's obligation

The role of students and their obligation throughout the academic year are the Attendance and completion of all tests, examinations, and homework's.

13. Forms of teaching

- white board
- hand out
- data show

14. Assessment scheme :- there is two main exams

1- May

Theory (15 marks)

Practical (35 marks)

2- Final exam (50marks)

Total marks : (100 %)

15. Student learning outcome:

The student will have the experience with the different organic molecules and the methods available in carrying out them in addition he will learn the methods of preparation and the type of reactions used to these Alkanes , Alkenes, Alkynes.....etc

16. Course Reading List and References:

1.General organic chemistry

2.Advanced organic chemistry

17. The Topics:**Lecturer's name**

❖ The specifications of carbon atom

(1st week)

❖ Alkanes, specifications and their nomenclature.

(2nd week)

❖ Preparation of alkanes

(3rd week)

❖ Reactions of alkanes

(4th week)

<ul style="list-style-type: none"> ❖ Alkenes, specifications, activity and nomenclature. ❖ Preparation of alkenes, Reactions of alkenes ❖ Some important mechanisms in alkenes reactions. ❖ Acetylenes; activity, nomenclature and specifications ❖ Preparation of acetylene, Reactions of acetylene. ❖ Aromatic compounds: Formula and nomenclature ,Ortho , Para, and Meta directory groups ❖ Alcohols: Structure & nomenclature ❖ Preparation of alcohols, Reactions of alcohols. ❖ Carboxylic acids: introduction and nomenclature ❖ Special methods for synthesis of carboxylic acids. ❖ Chemical reactions of carboxylic acids. ❖ Dicarboxylic acids: formula and nomenclature ❖ Reactions of benzene ring. ❖ Amines: types & nomenclature ❖ Preparation & Reactions of Amines 	(1 st week) (2 nd week) (3 rd week) (4 th week) (1 st week) (2 nd week) (3 rd week) (4 th week)
18. Practical Topics (If there is any)	
<ul style="list-style-type: none"> ➤ Method of purification ➤ Distillation – normal distillation ➤ Fractional distillation ➤ Vacuum distillation ➤ Sublimation ➤ Recrystallization ➤ Extraction ➤ Soup ➤ Aspirin synthesis ➤ Synthesis of polymer 	Dr. Bakhtiar Kakel Snowber M. Ahmed (3 hrs)

