

Republic of Iraq

The Ministry Of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala

College: Agriculture

Department: Field Crops

Stage: First

Lecturer name: Dhilal Mehdi

Abdul-kadir

Qualification: Master

Place of work: College of

Agriculture

Flow up of implementation celli pass play

Course Instructor	Dhilal Mehdi Abdul-kadir Mohammed Hassan Alrubaye				
E-mail	dhilalmahdi@uodiyala.edu.iq				
Title	Plant Chemistry				
Course Coordinator	Spring Course				
Course Objective	The module aims to teach the students basics and concepts of organic compounds (chemistry) (saturated and unsaturated aliphatic hydrocarbon). It includes getting to know the chemical bonds and chemical formulas of organic compounds. And it also includes a definition of each of these organic compounds, its nomenclature according to the international IUPAC system, and its physical properties of each compound and its chemical reactions with other hydrocarbon compounds. And preparing these compounds.				
Course Description	Explore the organic chemistry field, and its importance, and getting to know the organic compounds chemical bonds. Organic compounds nomenclature. Organic compounds reactions. Organic compounds preparation. Measuring the physical properties of organic compounds. Laboratory tests for hydrocarbon compounds.				
Textbook					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	(20%)	(15%)	(5%)	10%	(50%)
General Notes	Net.				

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week	Date	Topics Covered	Practical Part
1	1 st week	Introduction to organic chemistry and its importance	Laboratory safety rules
2	2 nd week	Saturated hydrocarbons (alkanes-paraffins) (nomenclature ,reactions , preparation)	Tools and equipment used in organic chemistry laboratory
3	3 rd week	Unsaturated hydrocarbons (alkenes) (nomenclature ,reactions , preparation)	Melting point measurement
4	4 th week	Unsaturated hydrocarbons (alkynes-acetylenes)(nomenclature ,reactions , preparation)	Boiling point measurement
5	5 th week	First month exam	Sublimation
6	6 th week	Cyclic compounds (nomenclature ,reactions , preparation)	First month exam
7	7 th week	Aromatic compounds(nomenclature ,reactions , preparation)	Recrystallization
8	8 th week	Alkyl halides (nomenclature ,reactions , preparation)	Detection of Alcohol
9	9 th week	Alcohols (nomenclature ,reactions , preparation)	Detection of phenols
10	10 th week	Ethers(nomenclature ,reactions , preparation)	Second month exam
11	11 th week	Second month exam	Detection of aldehydes and ketones - Fehling's reagent (a specific test for aliphatic aldehydes)
12	12 th week	Aldehydes and ketones (nomenclature	Detection of aldehydes and

		,reactions , preparation)	ketones (chromic acid detection)
13	13 th week	Amines(nomenclature ,reactions , preparation)	Detection of carboxylic acids (detection of sodium carbonate)
14	14 th week	Carboxylic acids (nomenclature ,reactions , preparation) And carboxylic acids Derivatives	Detection of carboxylic acids (detection of sodium bicarbonate)
١٥	1٥ st week	Third month exam	Third month exam

Instructor Signature
Ass.Prof. Dhilal Mehdi Abdul-kadir
15/1/2025

Dean Signature
Prof. Dr. Raaed Ibrahim Khalil
15/1/2025