





Course Description Form

1. Course Name:	
Organic Chemistry	
2. Course Code:	
ORCH105	
3. Semester / Year:	
Autum Semester /Academic Year 2023	
4. Description Preparation Date:	
1-2-2024	
5. Available Attendance Forms:	
Platform	
6. Number of Credit Hours (Total) / Number	er of Units (Total)
2 hours Theoretical	
3 hours practical /3.5 unit	
7. Course administrator's name (mention al	l, if more than one name)
	iber Hamdoon, Lecturer Sura Salim Hamid
Email: <u>ahmedalhyali@uomosul.edu.iq</u>	
8. Course Objectives	
Theoretical:	Practical:
• Providing students with awareness of the	• Introducing and informing the student
importance of chemistry at the industrial,	about the most important devices and
agricultural and environmental levels.	equipment
• Provide applications with a broad	• Used in the laboratory
foundation and balance of knowledge	• Introducing the student to the most
and skills in organic chemistry.	important conditions that must be met in
• Developing the student's ability to apply	an ideal laboratory
their knowledge and professional skills	• Introducing the student to safety
in solving experimental problems in	procedures while working in the
chemistry, which exceeds the goals of practical development.	laboratory.Teaching the student the best diagnostic
 Developing the skills of valuable 	methods.
students in their field of specialization.	 Finding the appropriate and quick
 Students in their field of specialization. Students gain from applying and 	method for diagnosis
employing their skills to serve society	• Enable the student to perform
	calculations to find the concentrations of
	substances and the percentages of the
	resulting substances.

				• Finding a are not av		the devices used
9. 7	Feachin	g and Learning Strategie	es			
Theore	tical:			Practical:		
• Inte	ractive l	lecture		Interactive lecture		
• Brai	instormi	ng		• Discussion, d	ialogue and br	ainstorming
• Dial	logue ar	nd discussion		 Conducting la 	boratory expe	eriments
	-	t of reports		 Set reports 		
• Con	duct da	ily tests and monthly		 Conduct daily 	v tests and	
exai	ninatior	18		 Monthly chec 	ks	
	ourse St					
Week	Hours	Required Learning	Unit or subject name		Learning	Evaluation
		Outcomes			method	method
					-	
1	2h	A1: The student learns		retical:	Lectures	Exams
	3h	about the concept of		ral principles of	And audio	Reports Discussion and
		organic chemistry and its importance in	practi	ic chemistry	means And reports	questions
		different areas of life.	-	mination of	And	questions
		C1: Student sets the		ng point	conduct	
		melting point		-8 F	experiments	
2	2h	A2: The student is	Theo	retical:	Lectures	Exams
	3h	familiar with the most	Hydrocarbons		And audio	Reports
		important properties,	Satur	rated (alkanes)	means	Discussion and
		names, reactions, and	practi		And reports	questions
		preparation of alkanes		mination of	And	
		C2: The student	DOILIN	g point	conduct	
		determines the boiling point			experiments	
3	2h	A3: The student learns	Theor	retical:	Lectures	Exams
	3h	about the types of		ocarbons	And audio	Reports
		alkenes in terms of	•	urated (alkenes)	means	Discussion and
		nomenclature and	practi	, ,	And reports	questions
		methods of preparing		cation of liquid	And	
		them	-	ic compounds	conduct	
		A4: The student uses a	by sin	nple distillation	experiments	
		distillation device for				
	01	purification	T1-		Lastar	Enome
4	2h	A5: The student		etical: ions of alkenes	Lectures	Exams
	3h	understands the types of reactions of alkenes			And audio	Reports Discussion and
		of reactions of alkelles	anuty	pes of dienes	means	Discussion and

		and dienes	Practical:	And reports	questions
		A6: The student learns about the types of	Recrystallization + Scientific visit	And conduct	
		solvents used for recrystallization		experiments	
5	2h 3h	A7: The student learns about the types of alkynes in terms of nomenclature, methods of preparing them, and their reactions A8: The student learns the procedure for purifying solid organic compounds by sublimation	Theoretical: Alkynes (acetylenes) practical: Sublimation	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
6	2h 3h	A9: The student learns about the chemical and physical properties of aromatic compounds and ways to name them practical: B1: The student carries out a practical application procedure on how to separate liquid or solid organic compounds by solvent extraction	Theoretical: Properties and nomenclature of aromatic compounds practical: Solvent extraction	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
7	2h 3h	A10: The student understands the methods of preparing aromatic compounds and the types of their reactions A11: The student learns how to prepare methane gas in the laboratory	Theoretical: Preparation and reactions of aromatic compounds practical: Preparation of methane gas	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions

8	2h 3h	A12: The student learns about the properties and nomenclature of alcohols and phenols A13: The student learns how to prepare 1_Butene	Theoretical: Properties and nomenclature of alcohols and phenols practical: Preparation 1_ Butene	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
9	2h 3h	A14: The student is familiar with the methods of preparation and reactions of alcohols and phenols B2: The student carries out a practical application by preparing acetylene gas	Theoretical: Preparation and reactions of alcohols and phenols practical: Preparation of acetylene gas	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
10	2h 3h	A15: The student learns about ethers, how to prepare them, and the types of their reactions B3: The student carries out a practical application to detect types of alcohol	Theoretical: Ethers practical: Study of the properties of alcohols	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
11	2h 3h	A16: The student learns how to name, prepare and react aldehydes B4: The student carries out a practical application on how to distinguish between aldehydes and ketones	Theoretical: Preparation, naming and reactions of aldehydes practical: Reaction and detection of aldehydes and ketones	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
12	2h 3h	A17: The student learns about the names, preparation, and reactions of ketones B5: The student carries of a practical application on how to prepare acetone	-	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions

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13	2h	A18: The student	Theoretical:	Lectures	Exams
	3h	learns about carboxyl		And audio	Reports
		acids and studies their		means	Discussion and
		chemical properties	carboxylic acids	And reports	questions
		D1: Experience a	practical:	And	
		practical application	Preparation of	conduct	
		on how to prepare	propanoic acid	experiments	
		Propanoic acid		1	
14	2h	A19: The student	Theoretical:	Lectures	Exams
14	2h 3h	understands the types		And audio	Reports
	511	of reactions and	preparation of	means	Discussion and
		methods for preparing		And reports	questions
		carboxylic acids	practical:	And	
		B6: The student	Preparation of	conduct	
		applies how to prepar	e propionaldehyde	experiments	
		propionaldehyde			
15	2h	A20: The student	Theoretical;	Lectures	Exams
	3h	understands the	Amines	And audio	Reports
		importance of amines	practical:	means	Discussion and
		A21: The student is	Detect items	And reports	questions
		familiar with the		And	1
		methods of detecting		conduct	
		theoretical elements:		experiments	
		Amines		• · · · · · · · · · · · · · · · · · · ·	
		Detect items			
		Detter nems			
11	Course F	Evaluation			
t	Evaluation		Evaluation date (one	Grade	Relative
Ľ	Lvaluation	memous	week)	Orade	weight %
1	Final th	neoretical report +	Theoretical 15 weeks	7theoretical +	
1		practical reports	Practical 1-15 weeks	6 practical	1570
2	Short test	1 1 I	3 weeks	4theoretical +	6%
2	Short test		5 Weeks	2practical	070
3	Midterm	exam (theoretical and	9 weeks	10theoretical +	15%
	practical)	and anotorious and		5 practical	10/0
4	Short test	2 Ouiz	12 weeks	4 theoretical +	6%
	Short test			2 practical	070
5	Final prac	tical test	practical exams week	20 practical	20%
6		retical exam	theoretical exams week	40	40%
				100	100
12	Learning	and Teaching Resource		1 200	100
		oks (curricular books, if a			
Dam	meu lexido(oks (curricular dooks, 11 a	шу)	Organic Chemist Authors:	try book
Requ					
Requ					Salim Hamid Hussein
Requ				• Prof. Dr.	Salim Hamid Hussein Sami Abdul-Ali
Requ				Prof. Dr.Prof. Dr.	
Requ				Prof. Dr.Prof. Dr.	Sami Abdul-Ali fathI AI_ShaharI

	2013 Dar Al-Kutub for Printing and Publishing
Main references (sources)	Organic Chemistry Authors: • Dr. Badie Aii Ahmed • Dr. Salim Hamid Hussein • Khalid Fathi Al-Shahari Published by Mosul University Press in 1991
Recommended books and references (scientific journals, reports)	Principles of Organic Chemistry
	Authors:
	 Prof.Dr. Mohamed Magdy Wasel/Cairo
	Fundamentals of Organic Chemistry
	Authors:
	Prof. Dr. Mohamed Wasel
Electronic References, Websites	https://arabian-chemistry.com/ https://scholar.google.com/

Lecturer Name (Theory) Assist. Prof. Dr. Ahmed Mukhaiber Hamdoon	Lecturer Name (Practical) Lecturer Sura Salim Hamid
Head of the Food Science Department Prof. Dr. Somaya Khalaf Badawi	Chairman of the scientific committee

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Jacob	