



1. Course Name:

#### Organic Chemistry II

2. Course Code:

#### 212ChPOc2

3. Semester/Year:

First semester/Second stage

4. Description Preparation Date:

9-2025

5. Available Attendance Forms:

on campus

6. Number of Credit Hours (Total) / Number of Units (Total)

3 hours/week (Theory), 2hours/week (Practical) (75 hours), Total units=4

7. Course administrator's name (mention all, if more than one name)

Theory

Name: Prof. Ameen Waleed

Email: ameen.waleed@bcms.edu.iq

Practical:

Name: Assistant lecturer Sarmad Sadi

Email: sarmad@bcms.edu.iq

Name: Assistant lecturer Randa Khalid

Email: randakhalid@bcms.edu.iq

#### 8. Course Objectives

## Course Objectives

- Studying the basics of organic chemistry for some chemical groups that are
  considered the foundations of the study of pharmacy (such as studying benzene
  and its derivatives, aldehydes, ketones, carboxylic acids and their derivatives,
  amines and their derivatives, phenols). Learn their names, properties, interactions,
  and methods of preparation.
- Study methods for the qualitative detection of organic compounds.
- Teaching students the safe and correct ways to handle chemicals and glassware.
- To know how to detect chemical compound types.





## 9. Teaching and Learning Strategies

## Strategy

- 1) Giving scientific lectures
- 2) Conduct practical experiments
- 3) Preparing scientific research individually or collectively
- 4) Assigning students to homework
- 5) Assigning the student to prepare seminars and discussions
- 6) Providing the opportunity for the student to enhance self-education

#### 10. Course Structure

Week	Hours	ours Required Learning Outcomes	Unit or subject	Learning	Evaluation
		Required Learning Outcomes	name	method	method
1-4	21	The economically important aromatic	Aromatic	Lectures	Quizzes
		hydrocarbons are benzene, toluene,	compounds		
		(ortho, para) xylene. Approximately 35			
		milli tons of these materials are			
		produced annually. They are obtained			
		from the distillation of coal tar and are			
		used to produce many chemicals and			
		polymers, including styrene, phenol,			
		aniline polyester, and nylon, it is			
		important to study them because they			
		are the key for synthesis of different			
		medications.			
5-7	12	Many organic medications used in the	Carboxylic acids	Lectures	Oral exams
		medical field contain carboxyl groups.	and their derivate		
8-9	5	Their importance comes from their	Amines and their	Lectures	Oral
		presence in the human body in plants,	derivatives		discussion
		and nature			
10-13	22	In the chemical industry, ketones and	Aldehydes and	Lectures	quizzes
		aldehydes find use as reagents,	ketones		
		solvents, and starting materials to			
		produce other items. Formaldehyde is			





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		used to preserve biological specimens			
		and also to manufacture polymers such			
		as Bakelite. Ketones have low toxicity			
		and can dissolve numerous chemical			
		substances.			
14-15	5	Plant phenolics are a vital human	phenols	Lectures	Oral
		dietary component and exhibit			discussions
		tremendous antioxidant activity as well			
		as other health			
		benefits.			
11. (	Course I	Evaluation	<u> </u>		
		based theoretical final exam 100 M total g and Teaching Resources			
			*0		. 1
Requi	ired text	tbooks (curricular books, if any)	*Organic Chemistry by Robert T. Morrison and Robert N. Boyd. *Organic Chemistry by McCurry; 5th ed.		
			Thomason learning; CA,USA; 2000		
Main	referen	ces (sources)	*Organic Chemistry by Robert T. Morrison and Robert N. Boyd.		
			*Organic Chemistry by McCurry; 5th ed.		
Thomason learning; CA,USA; 2000					
Recor	nmend	ed books and references (scientific	Organic Chemistry by Janice Gorzynski Smith, 1st		
journ	als, rep	orts)	edition.		
Electr	onic Re	ference Websites	https://www.science 28381/organic-cher		ok/97801281





1. Course Name:				
Microbiology I (The	eory and Practical)			
2. Course Code:				
213 AClMm1				
3. Semester / Year:				
First Semester /Secon	nd Year			
4. Description Prepa	ration Date:			
9-2025				
5. Available Attenda	ance Forms:			
On campus				
6. Number of Credit	Hours (Total) / Number of Units (Total)			
3 hours/week (Theo	ry) , 2hours/ week (Practical) ( 75 hours) , Total units=4			
7. Course administra	ator's name (mention all, if more than one name)			
Theory:				
Name: Dr. Zainab Jui	naa Qasim,			
Email: Zainab.jumaa	a@bcms.edu.iq			
practical				
Name: Assistant lectu	urer Saraha Salih Ahmed			
Email: <u>sara.saleh.ahn</u>	ned@bcms.edu.iq			
8. Course Objectiv	ves			
Course Objectives	• Understanding bacteria in terms of their presence in the environment			
	and their nutritional requirements for growth and reproduction			
	Methods of transmission of bacteria and the diseases they cause			
	Treatments and resistance to antibiotics and environmental factors			
9. Teaching and Le	earning Strategies			
Strategy	Presentation and recitation			
	• Interactive discussions			
	Brainstorming     Research and induction			
10. Course Structure	research and mudehon			





Lectures, ion to Discussions, ogy and Reports	Exam and classroom
	classroom
ogy and Reports	
	activities
growth	
1 =	=
=	=
	=
=	
	growth ents =





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4	3	Bacterial sporulation Practical: staining of spores and its position	Sporulation	=	Ш
5	3	Sterilization: (chemical + physical methods). Practical: preparation and sterilization of media	Sterilization	=	=
6	3	Chemotherapy (antibiotics, etc.) Practical: isolation of bacterial colonies	Antibiotics	=	=
7		Mid-to	erm examination		
8	3	Pseudomonas and Neisseria Practical: identification of bacterial colonies	Pseudomonas and Neisseria	=	=
9	3	Staphylococcus and Streptococcus Practical: biochemical reaction; oxidase and catalase test	Staphylococcus and Streptococcus bacteria	П	Ш
10	3	Bacillus bacteria and Vibrio cholera Practical: biochemical reaction; urease activity	Bacillus bacteria and Vibrio cholera	=	=
11	3	Clostridium bacteria Practical: bacterial reaction to citrate	Clostridium bacteria	Ш	=
12	3	Diphtheria bacteria, acne bacteria, and listeria practical: IMVEC test	Diphtheria bacteria, acne bacteria, and listeria	=	=





13	3	Enterobacteriaceae family Practical: identification of lactose fermenter and non- lactose fermenter bacteria	Enterobacteriace ae family	=	
14	3	Infectious spirochete bacteria and salmonella Practical: identification of lactose fermenter and non-lactose fermenter bacteria	Infectious spirochete bacteria and salmonella	=	
15	3	Tuberculosis and leprosy bacteria Practical: antibiotics sensitivity test	Tuberculosis and leprosy bacteria	=	

#### 11. Course Evaluation

- 20 M Theoretical assessments; (paper-based mid-term exam + attendance + seminar)
- 20 M practical assessment (attendance + quiz + practice+ oral-based exam)
- 60 M paper-based theoretical final exam

100 M total

# 12. Learning and Teaching Resources Required textbooks (curricular books, if any) -A color Atlas of microbiology by Ronald John Olds -Jawetz, Melnick, & Adelberg's. Medical Microbiology 26th ed. Main references (sources) Recommended books and references -Bailey & Scott's Diagnostic Microbiology 14th ed. -Hugo and Russell's Pharmaceutical Microbiology; 8th. ed. Electronic References, Websites









- 3) Study the behavior of electrolyte solutions, applying theories of dissociation, ionic strength, and colligative property expressions.
- 4) Explore solubility and distribution phenomena, focusing on solute-solvent interactions and partitioning between immiscible phases.
- 5) Apply principles of ionic equilibria, acid-base theories, pH calculations, and the effect of ionic strength on solution behavior.
- 6) Understand the formulation and function of buffered and isotonic solutions in maintaining pH and physiological compatibility.

#### 9. Teaching and Learning Strategies

Strategy
1-Lectures and Presentation
2-Discussions
3- Laboratory experiments
4- Inverted classrooms

#### 10. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1-3	9	Understand the differences in States of matter  •Binding forces between molecules  •States of matter  •The gaseous state  •The liquid state  •Solids and crystalline state  •The liquid crystalline state  •The supercritical fluid state  •Thermal analysis  •Phase equilibria and phase rule  •Solid dispersions	States of matter, binding forces between molecules, (Chapter 2)	- Lectures -White	-Written exams - Oral exams - Laboratory reports
		Practical:		experiments	





			,	
		-Introduction to physical pharmacy		
		-Expression of concentration in		
		pharmaceutical preparations		
4-5	6	•Physical properties of substances	Nonelectrolytes	
		•Types of solutions	(Chapter 5)	
		•Concentration expressions		
		•Ideal and real solutions		
		•Colligative properties		
		•Molecular weight determination.		
		Practical:		
		Two-component systems containing		
		liquid phases		
6-7	6	•Properties of solutions of electrolytes	Electrolyte	
		•Theory of dissociation	solutions	
		•Theory of strong electrolytes	(Chapter 6)	
		•lonic strength		
		•The Debye- Hückel theory		
		•Coefficients for expressing colligative		
		properties		
		Practical:		
		Three-component systems		
8-11	12	•Introduction	Solubility and	
		•Solvent-solute interactions	distribution	
		•Solubility of liquids in liquids	phenomena	
		Solubility of solids in liquids	(Chapter 9)	
		•Determining thermodynamic and kinetic		
		solubility		
		•Poor aqueous solubility		
		•Measuring solubility		





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		•Distribution of solutes between		
		immiscible solvents		
		Practical:		
		-Tie linear for three-component systems		
		-Partition coefficient: Measurements and		
		evaluation		
		Solubility methods		
12-13	6	•Introduction	Ionic equilibria	
		•Brønsted–Lowry theory	(Chapter 7)	
		•Ionization and dissociation		
		•Classification of solvents		
		Lewis electronic theory		
		•Acid-base equilibria		
		•Calculation of pH and acidity constants		
		Practical:		
		Buffer solutions		
14-15	6	•The buffer equation	Buffered and	
		•Buffer capacity	isotonic	
		•Buffers in pharmaceutical and biological	solutions	
		systems	(Chapter 8)	
		Practical:		
		Determination of solubility product		
		constant of slightly soluble salts		

#### 11. Course Evaluation

- 20 M Theoretical assessments; (paper-based mid-term exam + attendance + seminar)
- 20 M practical assessment (attendance + quiz + practice+ oral-based exam)
- 60 M paper-based theoretical final exam

\_\_ 100 M total

## 12. Learning and Teaching Resources





Required textbooks (curricular books, if any)	1) Martin's Physical Pharmacy and Pharmaceutical
	Sciences; 7th edition; 2017.
	2) Aulton's Pharmaceutics; The Design and Manufacture of
	Medicines; 6th edition, 2022.
Main references (sources)	Textbook mentioned above
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





1-Course Name:

Physiology 1

**2-**Course Code:

215 AClph1

**3-**Semester / Year:

First Semester / Second year

**4**-Description Preparation Date:

9-2025

**5**-Attendance:

In person attendance

6-Number of Credit Hours (Total) / Number of Units (Total)

3 hours/week (Theory), 2hours/week (Practical) (75 hours), Total units=4

7-Course administrator's name (mention all, if more than one name)

Theory

Name: Assistant prof. Dr. Ahmad Al-Saffar

Email: ahmadalsaffar@bcms.edu.iq

Name: Assistant lecturer Mohened Mahdi Al-Kaisey

Email: mohened@bcms.edu.iq

Practical:

Name: Assistant lecturer Ibraheem Kais Email: <u>ibraheem.kais0@bcms.edu.iq</u>

8-Course Objectives

#### **Course Objectives**

- Study the transportation of molecules across cell membrane.
- study the physiology of the renal system.
- Study the physiology of respiratory system.
- Study the physiology of nervous system.
- Study the physiology of muscles

## **9**-Teaching and Learning Strategies

Strategy

- Using YouTube videos to show some physiological process.
- Using some schemes or diagrams from the net





- Frequent Examination
- Using clicker device to achieve sudden exam.

#### **10-** Course structure

Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
1-2	6	Transport system	Transport system	Attendance	examination
3-6	12	Physiology of renal	Renal system	lectures	
		system			
7-9	12	Physiology of respiratory	Respiratory system		
		system			
10-12	9	Physiology of nervous	Nervous system		
		system			
13-15	9	Physiology of muscle	Muscle contraction		
		contraction			

#### 11- Course Evaluation

- 20 M Theoretical assessments; (paper-based mid-term exam + attendance + seminar)
- 20 M practical assessment (attendance + quiz + practice+ oral-based exam)
- 60 M paper-based theoretical final exam

## **12-** Learning and Teaching Resources

Required textbooks (curricular books, if any)	Ganong's Review of Medical Physiology, 23rd Edition
Main references (sources)	
Recommended books and references (scientific journals, reports)	research gate
Electronic References, Websites	YouTube





Ι.	Course	Name:

#### Computer Sciences II

2. Course Code:

#### 216 PhCs

3. Semester / Year:

First semester /Second year

4. Description Preparation Date:

9-2025

5. Available Attendance Forms:

In-person attendance

6. Number of Credit Hours (Total) / Number of Units (Total):

1 hour theory-(Practical) 2hours/week (45 hours), Total units=2

7. Course administrator's name (mention all, if more than one name)

Name: Assistant lecturer Dhiya Ibrahim Salman Email: <a href="mailto:dhiya.ibrahim.salman@bcms.edu.iq">dhiya.ibrahim.salman@bcms.edu.iq</a>

#### 8. Course Objectives

Course	
Objectives	

- 1) Provide a thorough overview of the fundamental concepts of computer applications.
- 2) The course covers the use of Microsoft Excel and Google applications in detail.

#### 9. Teaching and Learning Strategies

Strategy

- 1-Lectures and Presentation
- 2-Discussions
- 3- Laboratory application
- 4- Inverted classrooms

#### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	Introduction to Excel,	Introduction to Excel	- Lectures	-Written exams
2	1	Insert tab	Insert tab	-Scientific	- Oral exams
3-4	2	Insert tab	Insert tab	YouTube	- -
5	1	Page Layout and Basic	Page Layout and Basic	videos	Laboratory
		Functions	Functions	-Laboratory	reports=
6	1	Logical Functions	Logical Functions	experiment	





7-8	2	Logical Functions	Logical Functions	=	=
9-10	2	Data	Data	=	=
11-10	2	Review and view	Review and view	=	=
12-15	3	Developer	Developer	=	=

## 11.Course Evaluation

- 20 M Theoretical assessments; (paper-based mid-term exam + attendance + seminar)
- 20 M practical assessment (attendance + quiz + practice+ oral-based exam)
- $\bullet$  60 M paper-based theoretical final exam

\_\_\_\_\_ 100 M total

12.Learning and Teaching Resources	
Required textbooks (curricular	1- Microsoft office Professional, BY Linda Foulkes,
books, if any)	Senior Editor: Afshaan Khan.
	2- Microsoft office Professional, BY Joyce Cox, Jo
	an Lambert & Curtis Frge
Main references (sources)	
Recommended books and references (scientific	Microsoft office Professional 2010, BY Joyce
journals, reports)	Cox, Jo an Lambert & Curtis Frge
Electronic References, Websites	





Ι.	Course Name	

#### **Baath Regime Crimes in Iraq**

2. Course Code

#### 217 PhBrc

3. Semester / Year

First Semester/Second Year

4. Description Preparation Date:

9-2025

5. Available Attendance Forms

On campus

6. Number of Credit Hours (Total) / Number of Units (Total)

Two hours (30 hours) / two units

7. Course administrator's name (if more than one name)

Name: Assistant Lecturer Mustafa Qasim Mohamed/ Email: <a href="mailto:mustafaqasim93717@gmail.com">mustafaqasim93717@gmail.com</a>

8. Course Objectives

#### **Course Objectives**

Getting awareness of the crimes of Baath regime Objectives and they should not be concealed legally or legitimately for next generations.

- Showing the deceit of the fallen regime and revealing its evil image and its atrocities committed against its people.
- Authenticating the crimes of the Baath regime according to the law of Iraqi supreme court in 2005

#### 9. Teaching and Learning Strategies

#### Strategy

- Presentation and presentation
- Interactive Discussions
- Brainstorming
- Research and extrapolation

#### 10. Course Structure





The week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4	Types of international	Definition of crime	Lectures	Theoretical exam
		crimes.	linguistically and	and	and classroom
			idiomatically	discussions	activities
3-4	4	The fundamental rights	Human rights		
		and human dignity	violations		
		enjoyed by every human			
		being under the		=	=
		provisions of			
		international law and			
		their violation.			
5-6	4	Levels of Balancing	Psychological		
			crimes and their	=	=
			effects		
7			Midterm Exam		
		Human Rights Violations	Violations of Iraqi		
8-9	4	and Baath Party Authority	laws	=	=
		Crimes			
		The accusation of	Decisions of		
		planning a coup against	political and		
10-11	4	anyone who opposes the	military violations	=	=
		Baathist regime to purge	of the Baath regime		
		opponents in the army.			
		War and radioactive	Environmental		
12-13	4	contamination and mine	crimes	=	=
		explosion			
		The use of internationally	Contamination		
14-15	4	prohibited weapons.	with radioactive	=	=
			materials		



Electronic References, Websites



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11. Course Evaluation	
Midterm exam 30 marks	
Final semester exam 70 Marks	
12. Learning and Teaching Resources	
Required textbooks (methodology) if any	
Main references (sources)	United Nations reports condemning the Baath regime - human
	rights violations for the period 1991-2003
	Dr. Raed Abis and Dr. Abbas Attia, Publisher Iraqi Center for
	Documenting Extremist Crimes, First Edition
Recommended books and references	Archive of the Iraqi Center for Documenting Crimes of
(scientific journals, reports)	Extremism at the Abbasid Holy Shrine.
	Archive of the Foundation for Political Prisoners.





1. Course Name				
Arabic Language				
2. Course Code				
218 PhArl				
3. Semester/Year				
First Semester/Second \	'ear			
4. Date this description	was prepared			
9-2025				
5. Available Forms of A	tendance			
In campus				
6. Number of Hours (To	otal) / Number of Credits (Total)			
Two Hours (30 Hours) / Two Units				
7. Course administrator name (if more than one name mentioned)				
Name: Assistant Lecturer N	Austafa Qasim Mohamed / Email: <u>mustafaqasim93717@gmail.com</u>			
8. Course Objectives				
Course Objectives	Enabling students to learn sentence formation skills and know what			
	wrong sentences produce has an impact on meaning.			
	Enable students to prepare scientific reports in Arabic			
9. Teaching and Learning Strategies				
Strategy	Presentation and Presentation			
	Interactive Discussions			
	Brainstorming			
	Research and Induction			
10. Course Structure				





The week	Hours	Required Learning Outcomes	Unit Name or	Learning	Evaluation
			Subject	method	Method
1	2	- From Surah Al-Baqarah,	The Qur'an and	Lectures and	Theoretical
		verses from (260-263)	the Prophet's	Discussions	exam and
		From the hadith of the	Hadith		classroom
		Prophet: The Messenger of			activities
		Allah (may Allah's peace and			
		blessings be upon him) said: "I			
		have been sent to perfect the			
		noble morals."			
2-3	4	- Poetic selections in the pre-	Arabic Literature	=	=
		Islamic era			
		- The poem of Antara bin			
		Shaddad:			
		Oh Abel where is the smuggler			
		from the death			
		If God was in heaven, he spent			
		it			
4-5	4	- Balance of Accounts	Al-Sarff	=	=
		- Crowds in Arabic			
		- Attribution of the verb to			
		pronouns			
		- Conduct of verbs in terms of:			
		Health and illness			
		Deprivation and increase			
		Derivatives			
6	2		Language Chille	_	
6		-Alphabets (solar and lunar) - Punctuation Provisions	Language Skills	=	=
		- Rulings on writing the Hamza			
		(the first, the middle and the			





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		extreme, and the two Hamzas			
		of the connection and the cut)			
7-8	4	- Lexical schools	Arabic	=	
		The meanings of Western	Dictionaries		
		words in the Holy Qur'an, such			
		as the words "Taffah", "Farsha",			
		"Naqira", and relying on the			
		book of vocabulary by Ragheb			
		Al-Isfahani.			
		- The curriculum of the schools			
		(Al-Ain) and (Al-Aasas), and the			
		practice on extracting words			
		- One of the common language			
		mistakes			
6	2	- From Surah Al-Hajj from verse	The Holy Qur'an	=	=
		(1-5)	and the Prophet's		
		From the hadith of the Holy	Hadith		
		Prophet: The Messenger of			
		Allah (may Allah's peace and			
		blessings be upon him) said:			
		"The best of you is the one who			
		learns the Qur'an and teaches			
		it."			
8	2	Seven verses from Ibn al-	Arabic Literature	=	=
		Rumi's verse:			
		Your enemy is learned from			
		your friend			
		So don't have too many friends			
		- Human values in pre-Islamic			
		poetry			
		- Islam and poetry			
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9-10	4	- Categories of speech and its	Arabic grammar	=	=
		expressions			
		- The Arabized and the Built /			
		Knowledge and the Denial			
		- The Beginner and the News			
		- Transcripts			
		- Actor and Deputy			
11-15	8	- General Introduction to	Arabic Rhetoric	=	=
		Arabic Rhetoric			
		- Definition of language and			
		idiom			
		- An Introduction to the			
		Definition of Rhetorical			
		Sciences			
		- Statement of its relationship			
		with the Arabic language			
		- Manifestology: (Definition			
		and Types)			
		- Simile: (Definition, Types,			
		and Applications)			
		- Truth and metaphor			
		- Language metaphor			
		(definition, its relations and			
		applications)			
		- Metaphor (definition, types,			
		and applications)			
		- Mental metaphor (its			
		definition, relationships,			
		and applications)			
		- Metonymy (its definition,			
		types, and applications)			





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		- Common language				
		mistakes				
11. Cours	se Evaluatio	n				
Mid-term e	xam 20 ma	rks				
Dialogue ai	nd Discussio	on Panels 10 Degrees				
End of Sem	ester Exam	70 Marks				
12. Learn	ning and Tea	aching Resources				
Required To	extbooks (N	Methodology) if available	1- Ur	niversity Arabic Boo	ok for Non-Specia	lists, written
			Dr. A	Abdel Rajhi.		
			2- A	Arabic Language 1	Book for Non-S	pecialization
			Depa	artments Written		
			Dr. 1	Mohya Hilal.		
Main Refer	ence (s)		Expla	ination of Ibn Aqee	l Part One	
Recommen	ded books	and references (scientific	Dictio	onaries and diction	aries	
journals, re	ports)					
References	, Websites					





1. Course Name					
Arabic Language					
2. Course Code					
218 PhArl					
3. Semester/Year					
First Semester/Second Year					
4. Date this description wa	as prepared				
9-2025					
5. Available Forms of Atter	endance				
On campus					
6. Number of Hours (Tota	al) / Number of Credits (To	otal)			
Two Hours (30 Hours) / Tw	vo Units				
7. Course administrator na	ame (if more than one na	me mentioned)			
Name: Mustafa Qasim I	Mohamed / Email: musta	faqasim93717@gma	ail.com		
8. Course Objectives					
Course Objectives	• Enabling students	to learn sentence fo	rmation skills ar	nd know what	
	wrong sentences p	oroduce has an impa	ct on meaning.		
	<ul> <li>Enable students to</li> </ul>	prepare scientific re	eports in Arabic		
9. Teaching and Learning 9	Strategies				
Strategy	Presentation and I	Presentation			
	<ul> <li>Interactive Discuss</li> </ul>	sions			
Brainstorming					
Research and Induction					
10. Course Structure					
The week Hours Require	ed Learning Outcomes	Unit Name or	Learning	Evaluation	
		Subject	method	Method	





1	2	- From Surah Al-Baqarah,	The Qur'an and	Lectures and	Theoretical
		verses from (260-263)	the Prophet's	Discussions	exam and
		From the hadith of the	Hadith		classroom
		Prophet: The Messenger of			activities
		Allah (may Allah's peace and			
		blessings be upon him) said: "I			
		have been sent to perfect the			
		noble morals."			
2-3	4	- Poetic selections in the pre-	Arabic Literature	=	=
		Islamic era			
		- The poem of Antara bin			
		Shaddad:			
		Oh Abel where is the smuggler			
		from the death			
		If God was in heaven, he spent			
		it			
4-5	4	- Balance of Accounts	Al-Sarff	=	=
		- Crowds in Arabic			
		- Attribution of the verb to			
		pronouns			
		- Conduct of verbs in terms of:			
		Health and illness			
		Deprivation and increase			
		Derivatives			
6	2	-Alphabets (solar and lunar)	Language Skills	=	=
		- Punctuation Provisions			
		- Rulings on writing the Hamza			
		(the first, the middle and the			
		extreme, and the two Hamzas			
		of the connection and the cut)			





The meanings of Western words in the Holy Qur'an, such as the words "Taffah", "Farsha", "Naqira", and relying on the book of vocabulary by Ragheb Al-Isfahani.   The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words   One of the common language mistakes   The Holy Qur'an and the Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said:   "The best of you is the one who learns the Qur'an and teaches it."   Seven verses from Ibn al-Rumi's verse:   Your enemy is learned from your friend So don't have too many friends   Arabic Literature   =   =	EGE OF MEDIC					
words in the Holy Qur'an, such as the words "Taffah", "Farsha", "Naqira", and relying on the book of vocabulary by Ragheb Al-Isfahani.  - The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words  - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend	7-8	4	- Lexical schools	Arabic	=	=
as the words "Taffah", "Farsha",    "Naqira", and relying on the    book of vocabulary by Ragheb    Al-Isfahani.    - The curriculum of the schools    (Al-Ain) and (Al-Basas), and the    practice on extracting words    - One of the common language    mistakes  6 2 -From Surah Al-Hajj from verse    (1-5)    From the hadith of the Holy    Prophet: The Messenger of    Allah (may Allah's peace and    blessings be upon him) said:    "The best of you is the one who    learns the Qur'an and teaches    it."  8 2 Seven verses from Ibn al-    Rumi's verse:    Your enemy is learned from    your friend			The meanings of Western	Dictionaries		
"Naqira", and relying on the book of vocabulary by Ragheb Al-Isfahani.  - The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words  - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5)  From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said:  "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			words in the Holy Qur'an, such			
book of vocabulary by Ragheb Al-Isfahani The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Al-Isfahani.  The curriculum of the schools (Al-Ain) and the practice on extracting words - The Holy Qur'an - and the Prophet's Hadith  Arabit Literature = = =			as the words "Taffah", "Farsha",			
Al-Isfahani The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Al-Hajj from verse The Holy Qur'an and the Prophet's Hadith  From the Prophet's Hadith  Arabic Literature  = = = = = = = = = = = = = = = = = = =			"Naqira", and relying on the			
- The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) and the Prophet's From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend			book of vocabulary by Ragheb			
(Al-Ain) and (Al-Basas), and the practice on extracting words  - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) and the Prophet's From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			Al-Isfahani.			
practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			- The curriculum of the schools			
- One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			(Al-Ain) and (Al-Basas), and the			
mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  The Holy Qur'an and the Prophet's Hadith  Arabith  Family Qur'an  Arabit Literature  = = =			practice on extracting words			
6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  The Holy Qur'an and the Prophet's Hadith  Arabit Hadith  Arabic Literature = = =			- One of the common language			
(1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Anabic Literature  = = = = = = = = = = = = = = = = = = =			mistakes			
From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Hadith  Hadith  Hadith  Hadith	6	2	- From Surah Al-Hajj from verse	The Holy Qur'an	=	=
Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Arabic Literature = =			(1-5)	and the Prophet's		
Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			From the hadith of the Holy	Hadith		
blessings be upon him) said:  "The best of you is the one who learns the Qur'an and teaches it."  8			Prophet: The Messenger of			
"The best of you is the one who learns the Qur'an and teaches it."  8			Allah (may Allah's peace and			
learns the Qur'an and teaches it."  8			blessings be upon him) said:			
it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  it."  Arabic Literature = = = = = = = = = = = = = = = = = = =			"The best of you is the one who			
8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend			learns the Qur'an and teaches			
Rumi's verse: Your enemy is learned from your friend			it."			
Your enemy is learned from your friend	8	2	Seven verses from Ibn al-	Arabic Literature	=	=
your friend			Rumi's verse:			
			Your enemy is learned from			
So don't have too many friends			your friend			
			So don't have too many friends			
- Human values in pre-Islamic			- Human values in pre-Islamic			
poetry			poetry			
- Islam and poetry			- Islam and poetry			
9-10 4 - Categories of speech and its Arabic grammar = =	9-10	4	- Categories of speech and its	Arabic grammar	=	=
expressions			expressions			





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		- The Arabized and the Built /			
		Knowledge and the Denial			
		- The Beginner and the News			
		- Transcripts			
		- Actor and Deputy			
11-15	8	- General Introduction to	Arabic Rhetoric	=	=
		Arabic Rhetoric			
		- Definition of language and			
		idiom			
		- An Introduction to the			
		Definition of Rhetorical			
		Sciences			
		- Statement of its relationship			
		with the Arabic language			
		- Manifestology: (Definition			
		and Types)			
		- Simile: (Definition, Types,			
		and Applications)			
		- Truth and metaphor			
		- Language metaphor			
		(definition, its relations and			
		applications)			
		- Metaphor (definition, types,			
		and applications)			
		- Mental metaphor (its			
		definition, relationships,			
		and applications) - Metonymy (its definition,			
		types, and applications)			
		- Common language			
		mistakes			
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## 11. Course Evaluation

Mid-term exam 20 marks

Dialogue and Discussion Panels 10 Degrees

End of Semester Exam 70 Marks

## 12. Learning and Teaching Resources

12. Learning and Teaching Resources	
Required Textbooks (Methodology) if available	1- University Arabic Book for Non-Specialists, written
	Dr. Abdel Rajhi.
	2- Arabic Language Book for Non-Specialization
	Departments Written
	Dr. Mohya Hilal.
Main Reference (s)	Explanation of Ibn Aqeel Part One
Recommended books and references (scientific	Dictionaries and dictionaries
journals, reports)	
References, Websites	





1. Course Name:

#### Organic Chemistry III

2. Course Code:

#### 219 ChPOc3

3. Semester / Year:

Second semester/Second year

4. Description Preparation Date:

9-2025

5. Available Attendance Forms:

on campus

6. Number of Credit Hours (Total) / Number of Units (Total)

2hours/week (Theory), 2hours/week (Practical) (60 hours), Total units=3

7. Course administrator's name (mention all, if more than one name)

Theory

Name: Prof. Ameen Waleed

Email: ameen.waleed@bcms.edu.iq

Practical:

Name: Assistant lecturer Sarmad Sadi

Email: sarmad@bcms.edu.iq

Name: Assistant lecturer Randa Khalid

Email: randakhalid@bcms.edu.iq

#### 8. Course Objectives

## Course Objectives

- 1-Studying the basics of heterocyclic chemistry for some rings containing nitrogen, sulfur and oxygen which are considered the foundations of the study of pharmacy (like studying pyrrole, furan, thiophene, pyridine, quinoline and isoquinoline) and properties, nomenclature, reactions and preparations.
- 2-Studying methods for the qualitative detection of various compounds containing heterogeneous rings, such as drugs and organic compounds.
- 3- Studying the importance of heterocyclic compounds that having numerous applications in pharmaceutical chemistry and play a key role in biochemical functions. A lot of heterocycles are employed in

medicine as medication to treat a variety of ailments and injuries.





## 9. Teaching and Learning Strategies

## Strategy

- 1) Giving scientific lectures
- 2) Conduct practical experiments
- 3) Preparing scientific research individually or collectively
- 4) Assigning students to homework
- 5) Assigning the student to prepare seminars and discussions
- 6) Providing the opportunity for the student to enhance self-education

#### 10.Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	5	Heterocyclic organic compounds naming, classification, properties and chemical structure	Heterocyclic compounds Introduction	Lectures	quizzes
3-5	5	Five-membered heterocyclic organ compounds, sources and preparation	Five heterocyclic compounds, that containing one heteroatom, furan thiophene, and pyrrole.	Lectures	Oral discussion
6-8	5	Five-membered heterocyclic organic compounds, reactions	Five heterocyclic compounds, furan thiophen and pyrrole reactions	Lectures	quizzes
9-10	4	Six-membered heterocyclic organic compounds, naming, sources and preparation, pyridine	Six-membered heterocyclic, introduction	Lectures	Oral discussion
11-13	6	Saturated five- membered heterocyclic organic compounds, sources and preparation	Saturated five-membered heterocyclic organic compounds, introduction	Lectures	quizzes

#### 11. Course Evaluation





- 20 M Theoretical assessments; (paper-based mid-term exam + attendance + seminar)
- 20 M practical assessment (attendance + quiz + practice+ oral-based exam)
- 60 M paper-based theoretical final exam

\_\_\_\_\_ 100 M total

## 12. Learning and Teaching Resources

12. Learning and reaching recoon	
Required textbooks (curriculum books, if any)	*Organic Chemistry by Robert T. Morrison and Robert N. Boyd.  *Organic Chemistry by McCurry; 5th ed. Thomason learning; CA,US 2000  *An introduction to the chemistry of heterocyclic compound by Acheson, R. M. latest ed.
Main references (sources)	*Organic Chemistry by Robert T. Morrison and Robert N. Boyd.  *Organic Chemistry by McCurry; 5th ed. Thomason learning; CA,U 2000  *An introduction to the chemistry of heterocyclic compound by Aches R. M. latest ed.
Recommended books and references (scientific journals, reports)	Organic Chemistry by Janice Gorzynski Smith, 1st edition.
Electronic References, Websites	https://www.sciencedirect.com/topics/chemistry/heterocyclic-compound https://www.uou.ac.in/lecturenotes/science/MSCCH-17/CHEMISTRY%20LN.%203%20HETEROCYCLIC%20COMPOUN-converted%20(1).pdf





1. Course Name:						
Microbiology II	Microbiology II					
2. Course Code:						
220 ACIMm2	220 ACIMm2					
3. Semester / Year:	3. Semester / Year:					
Second semester / Second y	vear					
4. Description Preparation	Date:					
9-2025						
5. Available Attendance For	rms:					
On campus						
6. Number of Credit Hours	6. Number of Credit Hours (Total) / Number of Units (Total)					
3 hours/week (Theory) , 2h	3 hours/week (Theory), 2hours/week (Practical) (75 hours), Total units=4					
7. Course administrator's na	ame (mention all, if more than one name)					
Theory:  Name: Dr. Zainab Jumaa Qasim,  Email: Zainab.jumaa@bcms.edu.iq  practical  Name: Assistant lecturer Saraha Salih Ahmed  Email: sara.saleh.ahmed@bcms.edu.iq						
8. Course Objectives						
Course Objectives	<ul> <li>Providing students with information about parasitic and viral diseases affecting human health, their most important causes and vectors, and methods of treating and controlling them.</li> <li>Providing students with basic information about the immune system, its components, and how it works, and discussing the most important disorders of the immune system and the sources of dysfunction that lead to these disorders.</li> </ul>					
9. Teaching and Learning S	itrategies					
Strategy	<ul> <li>Presentation and recitation</li> <li>Interactive discussions</li> <li>Brainstorming</li> </ul>					





## Research and induction

## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or Subject	Learning method	Evaluation method
	2	Introduction to parasites that infect humans and their classification	Introduction to Parasitology	Lectures,	-
1	1	innate immunity and describe the most important physical and chemical immune barriers, also clarify the immediate and induced immune response	Innate immunity	Discussions , and Reports	Exam and classroom activities
	1	Description of the pathogenic amoeba (Entamoeba histolytica) practical: fixed slides for pathogenic and non-pathogenic amoeba+ presentation of photographic slides using data-show	Pathogenic amoeba		
2	1	Introduction to viruses, viral shape and size	Introduction to Virology		
	1	Cytokines definition, families and function	Immunology / Cytokines		
3	2	Description of gastrointestinal and reproductive systems, tissue flagellates, and ciliates Practical: fixed slides for flagellate + presentation of photographic slides using data-show	Human parasitic flagellates		
	1	Adaptive immune response, T and B cells and their functions	Specific immune response		





			1	
		Description of gastrointestinal and	Human	
		reproductive systems, tissue	parasitic	
		flagellates, and ciliates	flagellates	
3		Practical: fixed slides for flagellate +		
	2	presentation of photographic slides		
		using data-show		
	1	Adaptive immune response, T and B	Specific	
		cells and their functions	immune	
			response	
		Malaria: life cycle and pathogenesis	Parasite/	
		Practical: fixed slides for plasmodium+	malaria	
	1	presentation of photographic slides		
		using data-show		
4		Structure of viruses, including the	Structure of	
4	1	basic unit of infection, the gene, the	viruses	
		outer envelope, and its functions		
		Integration of the immune response	Immune	
	1	with both non-specialized and	response	
		specialized responses		
		Comparison between different types	Blood	
		of malaria and toxoplasmosis	flagellate	
		Practical: fixed slides for plasmodium	nagenate	
		and toxoplasma + presentation of		
	_	photographic slides using data-show		
5	2			
	1	Basic structure of antibodies, their	Antibodies	
		function and types		
		Tapeworms, their life cycle and	Parasite/	
		pathogenesis Practical: fixed slides	tapeworms	
		for tape worms		
	1	+ presentation of photographic slides		
	-	using data-show		





			T T				
	1	Describe the different stages of virus reproduction and the accompanying structures produced during replication cycle	Viral reproductio				
6	1	Definition of hypersensitivity, its types, and the mechanisms that lead to type 1 and type 2 hypersensitivity	Hypersensiti vity reactions				
7		Mid-term examination					
	1	Tape worms in pigs and tape worms in cows Practical: fixed slides for tape worms: <i>T saginata</i> (beef tapeworm), T. solium (pork tapeworm) and cyct + presentation of photographic slides using data-show	Parasite/ tape worms				
8	1	One-step growth curve, methods of isolating viruses, and studying the most important genetic mutations	Growth curve and gene interaction in viruses				
	1	Mechanics that lead to type III and IV hypersensitivity	Hypersensitiv ity reactions/ continue				
	2	Dwarf tapeworms Practical: fixed slides for dwarf worm + presentation of photographic slides using datashow	Parasite/tape worms				
9	1	Definition of tumors, their causes, and the mechanisms that contribute to the growth of tumors	Tumor immunity				
	1	Blood and urinary schistosomiasis, their classification, forms, life cycle,	Parasite/ schistosomias				





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10		pathology, diagnosis and treatment	is	
		Practical: fixed slides for egg of		
		Schistosoma and larva + presentation		
	of photographic slides using data-			
		show		
		A description of the most DNA	DNA viruses	
		viruses, important pathogenic		
		families to humans, along with a		
	1	description of the most important		
	1	diseases they cause and methods of		
		diagnosis and treatment.		
		How the tumor evades the immune	Tumor	
		response, as well as the most	immunity/	
	1	important immune strategies used in	continue	
		treatments	continue	
		Ascaris nematodes and hookworms,	Parasites/	
		their description, shapes, life cycle	nematodes	
	2	Practical: fixed slides for Ascaris and		
11		larva + presentation		
''		of photographic slides using data-		
		show		
	1	Tolerance and autoantigens	Autoimmunit	
	1		у	
		Ascaris nematodes and hookworms,	Parasites/	
		Diseases, diagnostic methods and	nematodes	
		treatments	continue	
	1	Practical: fixed slides for egg of Ascaris		
		and larva + presentation of		
12		photographic slides using data-show		
		Description of RNA viruses, the most	RNA viruses	
	1	important pathogenic families for		
1		humans, along with a description of	1	





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		the most important diseases they			
		cause and methods of diagnosing and			
	treating them.				
	Mechanical damage associated with A		Autoantibodi		
	1	breakdown of tolerance and the	es		
		presence of autoantibodies			
		Pin worms and round worms, their	Pin worms		
		forms, life cycle, pathology, diagnostic	and		
		methods and treatments	roundworms		
42	2	Practical: fixed slides for egg of egg of			
13	3	pinworms and roundworms +			
		presentation of photographic slides		=	=
		using data-show			
		Diseases caused by free-living worms	Parasite/free		
		Practical: presentation of photographic	living worms		
	2	slides using data-show for free living			
		worms			
		Description of RNA viruses, the most	RNA viruses/		
14		important pathogenic families for	continue		
		humans, along with a description of			
		the most important diseases they			
	1	cause and methods of diagnosis and			
		treating			
		Elephantiasis and Trichinella worms,	Wuchereria		
		their forms, life cycle, pathology,	<i>bancrofti</i> and		
		diagnostic methods and treatments	Trachnella		
15	3	Practical: presentation of	worms		
		photographic slides using data-show		=	=
		for <i>Wuchereria bancrofti</i> and			
		Trachnella worms			
11. Cou	rse Evalua	tion			





20 M Theoretical assessments; (paper-based mid-term exam + attendance + seminar)					
20 M practical assessment (attendance + quiz + practice+ oral-based exam)					
• 60 M paper-based theoretical final exam	60 M paper-based theoretical final exam				
100 M total					
12. Learning and Teaching Resources					
Required textbooks (curricular books,	-Medical Microbiology 24th ed. 2007 by E. Jawetz				
if any)	- Medical parasitology, 5th ed. By Dr. D.R. Arora &				
	Dr. Brij Bala Arora. 2018				
	Lab manual for practical virology and parasitology, -				
	Atlas of Helminthes and Protozoa.				
Main references (sources)					
Recommended books and					
references (scientific journals,					
reports)					
Electronic References, Websites					





1. Course Name:

Physical Pharmacy II (Theory and Practical)

2. Course Code:

221 PhPp2

3. Semester / Year:

Second Semester /2<sup>nd</sup> year.

4. Description Preparation Date:

9/2025

5. Available Attendance Forms:

On campus

6. Number of Credit Hours (Total) / Number of Units (Total):

3 hours/week (Theory), 2hours/week (Practical) (75 hours), Total units=4

7. Course administrator's name (mention all, if more than one name)

Theory:

Name: Assistant lecturer Zainab Abdulmuhsin Radhi

Email: zainabradhi@bcms.edu.iq

Practical:

Name: Assistant lecturer Ruwayda Mohammed

Email: <a href="mailto:ruwayda.mohamd@bcms.edu.iq">ruwayda.mohamd@bcms.edu.iq</a>
Name: Assistant lecturer Hussein Ali

Email: husseinali@bcms.edu.iq

#### 8. Course Objectives

### **Course Objectives**

- Understand complexation phenomena, classification of complexes, and methods used for their analysis.
- 2) Explore the principles of drug diffusion, including Fick's laws, diffusion through membranes, and factors affecting permeability.
- Analyze chemical kinetics of drug degradation and perform stability studies
  using reaction rate laws and accelerated testing.





- **4)** Study **interfacial phenomena**, surface tension, spreading, and the role of **surfactants** in wetting and formulation stability.
- **5)** Examine the **rheological properties** of pharmaceutical systems, including thixotropy and methods of flow characterization.
- 6) Learn about colloidal systems, micromeritics, and polymer science with focus on particle behavior, formulation impact, and pharmaceutical applications.

### 9. Teaching and Learning Strategies

### Strategy

1-Lectures and Presentation

- 2-Discussions
- 3- Laboratory experiments
- 4- Inverted classrooms

### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-2	4	Classification of complexes  Metal complexes  Organic molecular complexes  Inclusion compounds  Methods of analysis  Practical:  Solubilization of components of pharmaceutical preparations.	Complexat ion (Chapter 10)	- Lectures -White board -Data show -Power point - Explanatory	- Written exams - Oral exams - Laboratory reports
3-4	6	<ul> <li>Introduction</li> <li>Steady state diffusion</li> <li>Fick's first law of diffusion</li> <li>Fick's second law</li> <li>Diffusion through membranes</li> <li>Permeability</li> <li>Diffusion driving forces</li> </ul>	Diffusion (Chapter 11)	diagrams -Scientific YouTube videos -laboratory experiments	





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		•Lag time		
		•Apparatus and methods for assessing drug		
		diffusion		
		Practical:		
		Solubilization of Aspirin.		
5-6	7	•Introduction	Chemical	
		•Rates, orders and molecularity of reactions	kinetics	
		•Temperature effects	and	
		•Other factors effects	stability	
		•Stability of pharmaceuticals	(Chapter	
		Accelerated stability and stress testing	14)	
		Practical:		
		Surface tension: measurements and		
		calculations		
7-8	6	•Classification of interfaces	Interfacial	
		•Liquid interfaces	phenomen	
		•Surface and interfacial tensions	a (Chapter	
		•Surface free energy	15)	
		•Measurement of interfacial tension		
		•Spreading coefficient		
		Adsorption at liquid interfaces		
		•Surface active agents		
		•Systems of Hydrophile—Lipophile		
		Classification		
		Adsorption at solid interfaces		
		•The solid gas interface		
		•The solid liquid interface		
		•Wetting and wetting agents		
		•Applications of surface-active agents		
		•Foam and antifoaming agents		
		•Electric properties of interfaces		
		Practical:		





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		Rate kinetics: Application in stability of	
		pharmaceutical stability	
9-10	6	•Newtonian systems	Rheology
		•Non-Newtonian systems	(Chapter
		•Thixotropy	16)
		•Determination of rheological properties	
		•Viscoelasticity	
		•Pharmaceutical areas in which rheology is	
		Significant	
		Practical:	
		Determination of critical micelles	
		concentration	
11-12	6	•Introduction to disperse systems	Colloidal
		•Types of colloidal systems	dispersio
		Optical properties of colloids	ns
		•Kinetic properties of colloids	(Chapter
		•Electrical properties of colloids	17)
		•Solubilization using colloids	
		Pharmaceutical applications of colloids	
		Practical:	
		Viscosity: Measurements and calculations	
13-15	10	Particle size and size distribution	Micrometri
		•Methods of determining particle size	cs (Chapter
		Particle shape and surface area	19)
		•Methods for determining surface area	
		•Derived properties of powders (porosity,	Pharmace
		packing arrangements, densities of particles,	utical
		bulkiness and flow properties)	polymers
		Pharmaceutical polymers (Chapter 21)	(Chapter
		•Introduction (history, general concepts,	21)
		synthesis)	





	•Copolymers and polymer blends		
	•Thermoplastic and thermoset polymers		
	•Polymer properties (crystalline and		
	amorphous polymers, thermal transitions,		
	glass transition temperature, plasticized		
	polymers, molecular weight, mechanical		
	properties,		
	•Polymers for pharmaceutical applications		
	•Polymers in drug delivery		
	Practical:		
	Determination of particle size by optical		
	microscopy and Sedimentation.		
44.6	- 1 .		

### 11. Course Evaluation

- 20 M Theoretical assessments; (paper-based mid-term exam + attendance + seminar)
- 20 M practical assessment (attendance + quiz + practice+ oral-based exam)
- $\bullet$  60 M paper-based theoretical final exam

\_\_ 100 M total

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	1) Martin's Physical Pharmacy and Pharmaceutical
	Sciences; 7th edition; 2017.
	2) Aulton's Pharmaceutics; The Design and
	Manufacture of Medicines; 6th edition, 2022.
Main references (sources)	Textbook mentioned above
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	





1. Course Title:	1. Course Title:			
Physiology II	Physiology II			
2. Course Code	2. Course Code			
222 ACIPh2				
3. Semester/Year	3. Semester/Year			
Second Semester / Se	cond Year			
4. Description Prepa	ration Date:			
2-2025				
5. Attendance:				
In person attendance				
6. Number of Credit	Hours (Total) / Number of Units (Total)			
3 hours/week (Theor	y) , 2hours/ week (Practical) ( 75 hours) , Total units=4			
7. Course administra	ator's name (mention all, if more than one name)			
Theory				
Name: Assistant pro	Name: Assistant prof. Dr. Ahmad Al-Saffar			
Email: <u>ahmadalsaffa</u>	r@bcms.edu.iq			
Name: Assistant lect	urer Mohened Mahdi Al-Kaisey			
Email: mohened@bo	cms.edu.iq			
Practical:				
Name: Assistant lect	urer Ibraheem Kais			
Email: <u>ibraheem.kais</u>	s0@bcms.edu.iq			
8. Course Objectives	5			
Course Objectives	• Study the mechanism of action and regulation of the digestive system			
	Study of blood function and the ABO system			
	Study of the mechanism of action and organization of the endocrine system			
9. Teaching and Lea	rning Strategies			
Strategy	Using YouTube to show the functions of some members			





- The use of some charts from outside the prescribed curriculum to explain the mechanisms of work of some tissues
- Periodic exams, which are either previously agreed or unannounced

### 10. Course Structure

week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
		Outcomes		method	method
6-1	28	Study the mechanism of	Digestive system	Lectures +	Lectures + daily
		action and regulation of	regulation	daily	exams
		the digestive system		exams	
7	3	Study of blood functions	Physiological function		
			of Blood		
13-8	22	Study of the physiology	Physiological study of		
		and organization of the	Endocrine system		
		endocrine system			

### 11. Course Evaluation

Midterm exam 15 marks

Quizzes and homework 5 marks

Practical part 20 Marks

Final semester exam 60 marks

### 12. Learning and Teaching Resources

Required textbooks (methodology, if any)	Ganong's Review of Medical Physiology, 23rd Edition
Main references (sources)	There isn't any
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	research gate YouTube





1. Course Name:				
Pharmacognosy and medicinal plants I				
2. Course Code:				
223 ChPP1				
3. Semester / Year:				
Second semester/ Second year				
4. Description Preparation Date:				
9-2025				
5. Attendance:				
Attendance				
6. Number of Credit Hours (Total) / Number of Units (Total)				
3 hours/week (Theory), 2hours/week (Practical) (75 hours), Total units=4				
7. Course administrator's name (mention all, if more than one name)				
Lect. Dr. Haider Mohammed Badee <u>haider.mohammed.badee@bcms.edu.iq</u>				
Lab instructors:				
Assist. Lect. Huda Saaran Hosny <u>Hsaaz16@bcms.edu.iq</u>				
8. Course Objectives				
• This course is intended to study the scope of pharmacognosy medicinal plant terminology,				
<ul> <li>classification of natural products, pharmacological activities of medicinal plants, quality control, and phytochemistry which include extraction &amp; isolation of active constituents from natural sources.</li> </ul>				
9. Teaching and Learning Strategies				
Strategy • Presentation and recitation				
Interactive discussions				
Brainstorming				

Small groups

Flipped rows

Research and induction





- Discussions
- Field visits to institutions and entities related to fishing work
- Volunteer work, seminars, workshops and exhibitions

### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning	Evaluation
				method	method
1	3	Pharmacognosy is described	General introduction:	Attendance	Exam,
		as the systematic science	the scope of		Oral,
		of morphological, chemical,	pharmacognosy,		Test,
		and biological properties	definitions & basic		Seminar.
		along with history,	principles, natural sources		
		cultivation, collection,	of drugs,		
		extraction, isolation, bio	crude drugs, official		
		assaying, quality control, and	& non-official		
		preparation of crude drugs of			
		natural origin			
2	3		Classification of		
			natural products,		
			plant nomenclature &		
			taxonomy, production of		
			crude drugs:		
			cultivation, collection,		
			drying, storage		
3	3		Pharmacological activities		
			of medicinal plants,		
			adulteration of crude		
			drugs Deterioration of		
			crude drugs		
4	3		Chemistry of natural		
			products Quality control		
			of crude drugs		





5	3	Р	hytochemistry:
		E	xtraction of plant
		m	naterials
6	3	S	eparation techniques:
		ir	ntroduction, mechanism
7	3	С	hromatography:
		Ir	ntroduction,
		C	lassification, mechanism
8	3	Т	hin layer
		c	hromatography
9	3	P	aper chromatography
10	3	С	olumn chromatography
11	3	G	as-liquid
		c	hromatography
12	3	G	el filtration, ion
		e.	xchange, affinity
		c	hromatography
13	3	Н	PLC,
14	3	Т	issue culture of
		п	nedicinal plants:
		ir	ntroduction &
		h	istory
15	3	L	aboratory of the plant
		ti	issue culture, aseptic
		te	echnique
16	3	A	pplication of plant tissue
		C	ulture, environmental &
		b	iological control, plant
		g	rowth regulator

### 11. Course Evaluation

 $\bullet 20 \ M \ Theoretical \ assessments; (paper-based \ mid-term \ exam + attendance + seminar)$ 





• 20 M practical assessment (attendance + quiz + practice+ oral-based exam)					
• 60 M paper-based theoretical final exam					
100 M total					
12. Learning and Teaching Resources	12. Learning and Teaching Resources				
Required textbooks (curricular books, if any)	Pharmacognosy 9 <sup>th</sup> edition Varro E.Tyler, Lynn R.Brady.				
Main references (sources)	Pharmacognosy 16 <sup>th</sup> edition Trease &Evans.				
Recommended books and references	Phytochemical methods 3th edition				
(scientific journals, reports)	A guide to modern techniques of plant analysis 1998				
Electronic References, Websites	Thin layer chromatography 2 <sup>nd</sup> edition Egon stahl. 1990				





1. C	Course Name					
Arabi	c Language					
2. C	2. Course Code					
224	224 PhAL					
3. Se	mester/Year					
Seco	nd Semester/	Secon	d Year			
4. D	ate this desci	iption	was prepared			
9-20	25					
5. A	ailable Forn	ns of At	tendance			
0	n campus					
6. N	umber of Ho	urs (To	otal) / Number of Credits (To	otal)		
Two I	lours (30 Ho	urs)/	Two Units			
7. C	ourse admini	strator	name (if more than one na	me mentioned)		
N	ame: Mustaf	a Qasii	m Mohamed / Email: <u>musta</u>	faqasim93717@gma	ail.com	
8. C	ourse Object	ives				
Course Ol	jectives		<ul> <li>Enabling students</li> </ul>	to learn sentence fo	rmation skills ar	nd know what
			wrong sentences	oroduce has an impa	ct on meaning.	
			• Enable students to	prepare scientific re	ports in Arabic	
9. To	aching and I	earnir	ng Strategies			
Strategy			Presentation and I	Presentation		
			Interactive Discussions			
Brainstorming						
	Research and Induction					
	rse Structure					
The week	Hours	Requ	ired Learning Outcomes	Unit Name or	Learning	Evaluation
				Subject	method	Method





1	2	- From Surah Al-Baqarah,	The Qur'an and	Lectures and	Theoretical
		verses from (260-263)	the Prophet's	Discussions	exam and
		From the hadith of the	Hadith		classroom
		Prophet: The Messenger of			activities
		Allah (may Allah's peace and			
		blessings be upon him) said: "I			
		have been sent to perfect the			
		noble morals."			
2-3	4	- Poetic selections in the pre-	Arabic Literature	=	=
		Islamic era			
		- The poem of Antara bin			
		Shaddad:			
		Oh Abel where is the smuggler			
		from the death			
		If God was in heaven, he spent			
		it			
4-5	4	- Balance of Accounts	Al-Sarff	=	=
		- Crowds in Arabic			
		- Attribution of the verb to			
		pronouns			
		- Conduct of verbs in terms of:			
		Health and illness			
		Deprivation and increase			
		Derivatives			
6	2	-Alphabets (solar and lunar)	Language Skills	=	=
		- Punctuation Provisions			
		- Rulings on writing the Hamza			
		(the first, the middle and the			
		extreme, and the two Hamzas			
		of the connection and the cut)			





The meanings of Western words in the Holy Qur'an, such as the words "Taffah", "Farsha", "Naqira", and relying on the book of vocabulary by Ragheb Al-Isfahani.   The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words   One of the common language mistakes   The Holy Qur'an and the Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said:   "The best of you is the one who learns the Qur'an and teaches it."   Seven verses from Ibn al-Rumi's verse:   Your enemy is learned from your friend So don't have too many friends   Arabic Literature   =   =	EGE OF MEDIC					
words in the Holy Qur'an, such as the words "Taffah", "Farsha", "Naqira", and relying on the book of vocabulary by Ragheb Al-Isfahani.  - The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words  - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend	7-8	4	- Lexical schools	Arabic	=	=
as the words "Taffah", "Farsha",    "Naqira", and relying on the    book of vocabulary by Ragheb    Al-Isfahani.    - The curriculum of the schools    (Al-Ain) and (Al-Basas), and the    practice on extracting words    - One of the common language    mistakes  6 2 -From Surah Al-Hajj from verse    (1-5)    From the hadith of the Holy    Prophet: The Messenger of    Allah (may Allah's peace and    blessings be upon him) said:    "The best of you is the one who    learns the Qur'an and teaches    it."  8 2 Seven verses from Ibn al-    Rumi's verse:    Your enemy is learned from    your friend			The meanings of Western	Dictionaries		
"Naqira", and relying on the book of vocabulary by Ragheb Al-Isfahani.  - The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words  - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5)  From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said:  "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			words in the Holy Qur'an, such			
book of vocabulary by Ragheb Al-Isfahani The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Al-Isfahani.  The curriculum of the schools (Al-Ain) and the practice on extracting words - The Holy Qur'an and the Prophet's Hadith  Arabit Literature = = =			as the words "Taffah", "Farsha",			
Al-Isfahani The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Al-Hajj from verse The Holy Qur'an and the Prophet's Hadith  From the Prophet's Hadith  Arabic Literature  = = = = = = = = = = = = = = = = = = =			"Naqira", and relying on the			
- The curriculum of the schools (Al-Ain) and (Al-Basas), and the practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) and the Prophet's From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend			book of vocabulary by Ragheb			
(Al-Ain) and (Al-Basas), and the practice on extracting words  - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) and the Prophet's From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			Al-Isfahani.			
practice on extracting words - One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			- The curriculum of the schools			
- One of the common language mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			(Al-Ain) and (Al-Basas), and the			
mistakes  6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  The Holy Qur'an and the Prophet's Hadith  Arabith  Family Qur'an  Arabit Literature  = = =			practice on extracting words			
6 2 - From Surah Al-Hajj from verse (1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  The Holy Qur'an and the Prophet's Hadith  Arabit Hadith  Arabic Literature = = =			- One of the common language			
(1-5) From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Anabic Literature  = = = = = = = = = = = = = = = = = = =			mistakes			
From the hadith of the Holy Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Hadith  Hadith  Hadith  Hadith	6	2	- From Surah Al-Hajj from verse	The Holy Qur'an	=	=
Prophet: The Messenger of Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  Arabic Literature = =			(1-5)	and the Prophet's		
Allah (may Allah's peace and blessings be upon him) said: "The best of you is the one who learns the Qur'an and teaches it."  8 2 Seven verses from Ibn al-Rumi's verse: Your enemy is learned from your friend			From the hadith of the Holy	Hadith		
blessings be upon him) said:  "The best of you is the one who learns the Qur'an and teaches it."  8			Prophet: The Messenger of			
"The best of you is the one who learns the Qur'an and teaches it."  8			Allah (may Allah's peace and			
learns the Qur'an and teaches it."  8			blessings be upon him) said:			
it."  8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend  it."  Arabic Literature = = = = = = = = = = = = = = = = = = =			"The best of you is the one who			
8 2 Seven verses from Ibn al- Rumi's verse: Your enemy is learned from your friend			learns the Qur'an and teaches			
Rumi's verse: Your enemy is learned from your friend			it."			
Your enemy is learned from your friend	8	2	Seven verses from Ibn al-	Arabic Literature	=	=
your friend			Rumi's verse:			
			Your enemy is learned from			
So don't have too many friends			your friend			
			So don't have too many friends			
- Human values in pre-Islamic			- Human values in pre-Islamic			
poetry			poetry			
- Islam and poetry			- Islam and poetry			
9-10 4 - Categories of speech and its Arabic grammar = =	9-10	4	- Categories of speech and its	Arabic grammar	=	=
expressions			expressions			





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		- The Arabized and the Built /			
		Knowledge and the Denial			
		- The Beginner and the News			
		- Transcripts			
		- Actor and Deputy			
11-15	8	- General Introduction to	Arabic Rhetoric	=	=
		Arabic Rhetoric			
		- Definition of language and			
		idiom			
		- An Introduction to the			
		Definition of Rhetorical			
		Sciences			
		- Statement of its relationship			
		with the Arabic language			
		- Manifestology: (Definition			
		and Types)			
		- Simile: (Definition, Types,			
		and Applications)			
		- Truth and metaphor			
		- Language metaphor			
		(definition, its relations and			
		applications)			
		- Metaphor (definition, types,			
		and applications)			
		- Mental metaphor (its			
		definition, relationships,			
		and applications) - Metonymy (its definition,			
		types, and applications)			
		- Common language			
		mistakes			
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### 11. Course Evaluation

Mid-term exam 20 marks

Dialogue and Discussion Panels 10 Degrees

End of Semester Exam 70 Marks

### 12. Learning and Teaching Resources

12. Learning and reacting Resources	
Required Textbooks (Methodology) if available	1- University Arabic Book for Non-Specialists, written
	Dr. Abdel Rajhi.
	2- Arabic Language Book for Non-Specialization
	Departments Written
	Dr. Mohya Hilal.
Main Reference (s)	Explanation of Ibn Aqeel Part One
Recommended books and references (scientific	Dictionaries and dictionaries
journals, reports)	
References, Websites	

#### 1. Course Name

### **Arabic Language**

2. Course Code

### 224 PhArl

3. Semester/Year

Second Semester / Second Stage

4. Date this description was prepared

9-2025

5. Available Forms of Attendance

On campus

6. Number of Hours (Total) / Number of Credits (Total)

Two Hours (30 Hours) / Two Units

7. Course administrator name (if more than one name mentioned)

Name: Mustafa Qasim Mohamed / Email: mustafaqasim93717@gmail.com

8. Course Objectives





	<ul> <li>Enabling students to learn sentence formation skills and know what</li> </ul>
Course Objectives	wrong sentences produce has an impact on meaning.

Enable students to prepare scientific reports in Arabic

### 9. Teaching and Learning Strategies

• Presentation and Presentation • Interactive Discussions Strategy Brainstorming • Research and Induction

### Course Structure

The week	Hours	Required Learning Outcomes	Unit Name or Subject	Learning method	Evaluation Method
1-2	4	- From Surah Al-Isra', verses from (23-29) From the hadith of the Prophet (peace and blessings of Allaah be upon him) said: "Allah loves if one of you does a deed that he masters it."  • Verses from the poem of Al-Sharif Al-Radi in his mother's lamentation: I will cry if the clouds fall, my crying And I say if the article goes rudimentary	The Qur'an and the Prophet's Hadith	Lectures and Discussions	Theoretical exam and classroom activities
3	2	Dalia Abi Alaa Al-Maari: غَيْرُ مُجْدٍ فِي مِلَّتِي وَاعْتِقَادِ Verses for فَوْحُ بَاكٍ وَلَا تَرَثُّمُ شَادِ each: Mr. Al-Jawahiri	Arabic Literature	=	=





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		B. Al-Sayyab Passages from the			
		Tune of Rain, or a Stranger on			
		the Gulf			
		-Prose Arts			
		The present tense verb is his			
4.5		erection and his shoes	Arabic grammar		
4-5	4	- Trailers		=	=
		- Installations			
		- Provisions for writing T (open			
		and tied)			
_		- Provisions for writing the			
6	2	alpha (extended and	Language Skills	=	=
		compartmental)			
		الضاد والظاء Writing the -			
		- Language Collection Stages			
		- Dictionaries of words and			
7-8	4	connotations	Arabic	=	=
		- One of the common language	Dictionaries		
		mistakes.			
		- From Surah Yusuf: (1-7)			
		From the hadith of the Prophet:			
		"Do not envy, do not quarrel,			
		do not be angry, do not			
		conspire, do not sell one			
		another for the sale of one	The Holy Qur'an		
6	2	another, and be the servants of	and the Prophet's	=	=
		Allah brothers. The Muslim is	Hadith		
		the brother of the Muslim, he			
		does not oppress him, he does			
		not fail him, he does not lie to			
		him, he does not despise him.			
		Piety is here — and he points to			
	1	L	l	l	l





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		his chest three times –			
		according to a man who is evil			
		to despise his Muslim brother.			
		Every Muslim is forbidden to			
		the Muslim: his blood, his			
		money, and his offering."			
		Verses from Mimiyyah Al-			
		Mutanabi:			
		واحرَّ قَلباهُ مِمَّن قَلبُهُ شَبِمُ وَمَن			
		بِجِسمي وَحالي عِندَهُ سَقَمُ			
		Verses from Jimiya Ibn al-Farid:			
		ما بَيْنَ مُعْتَرِكِ الأحداقِ والمُهَج			
8	2	Verses for each:	Arabic Literature	=	=
		A. Mustafa Gamal al-Din (his			
		seer)			
		بغداد ما اشتبكت عليكِ الاعصرُ			
		B. Muhammad Mahdi Al-			
		Jawahiri from a poem:			
		سلامٌ على باسقاتِ النخيل			
		- Conjugation of nouns			
		A. Noun in terms of			
		reminiscence and			
	4	femininization		=	
		B. Noun in terms of abstraction			
9-10		and increase	Arabic		
		C. Noun in terms of	morphology and		=
		individuals, Deuteronomy, and	grammar		
		plural			
		Arabic grammar			
		- Number and its provisions			
		- dependents			
	<u> </u>	<u>'</u>		l .	





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	2	- The curriculum of the					
11		schools (AL- Maqyees ) and	Arabic				
		(Al-Sahih), and the practice	Dictionaries				
		of extracting words					
	6	- The Science of Rhetorical	Arabic Rhetoric		=		
12-15		Embellishment and Its					
		Impact on the Eloquence of					
		Speech					
		A- Semantic Embellishments					
		(pun, antithesis,					
		correspondence, sound					
		reasoning, emphasizing					
		praise by juxtaposition with					
		criticism)					
		B- Verbal Embellishments					
		(paronomasia, rhymed					
		prose, quotation, inclusion)					
		- Common Language Mistakes					
11. Course Evaluation							

#### 11. Course Evaluation

Mid-term exam 20 marks

Dialogue and Discussion Panels 10 Degrees

End of Semester Exam 70 Marks

12. Learning and Teaching Resources				
	1- University Arabic Book for Non-Specialists, written			
	Dr. Abdel Rajhi.			
Required Textbooks (Methodology) if available	2- Arabic Language Book for Non-Specialization			
	Departments Written			
	Dr. Mohya Hilal.			
Main Reference (s)	Explanation of Ibn Aqeel Part One			
Recommended books and references (scientific	Dictionaries and dictionaries			
journals, reports)				





O COLLEGE OF MODIFICATION	2 <sup>nd</sup> Year- Course Description 2025-2026			
References, Websites				