





# **Academic Program Description**

# Al-Bayan University College of Health & Medical Techniques

2023 - 2024

Department of Kidney Dialysis Techniques September 17, 2024 University

Faculty/Institute

**Scientific Department** 

Academic/Professional Program Name

**Final Certificate Name** 

**Academic System** 

**Description Preparation Date** 

**File Completion Date** 

**Program Update Date** 

Al-Bayan University

College of Health and Medical Techniques

**Kidney Dialysis Techniques** 

**Course Description** 

Bachelor in Kidney Dialysis Techniques

Morning

17-09-2024

19-09-2024

9-10-2024

**Head of Department** 

Signe

Name Prof. Dr. Muzahim Muhammed

**Date** 25-09-2024

**Scientific Associate** 

Signe

Name Dr. Ahmed Turki Hani

**Date** 25-09-2024

This File has been checked by Quality Assurance and University Performance

Director of Quality Assurance and University Performance Department

**Head of Quality Assurance Section** 

Signe

Name Asst. Lec. Sarah Abdullatif

**Date** 25-09-2024

One

Approval of the Dean Prof. Dr. Ghaith Ali Jasim

### 1. Program Vision

Our vision is to provide preparations to medical technologies staff to possess high scientific skills according to the international standards, capable of functioning within efficient teamwork atmosphere in order to participate in treating and ameliorate the suffering of renal failure patients. All these preparations will be provided during the theoretical study and practical training period at the university along with dialysis centers in the Iraqi ministry of health institutes, accomplishing through which the highest degrees of scientific and practical efficiency for the graduates, and to be qualified to work in hospitals in general, and dialysis centers in specific.

### 2. The Message of the Academic Program

The Department of kidney dialysis techniques seeks to be the leader in Iraq and the Arab region in qualifying medical personnel capable of working in specialized centers within hospitals (dialysis centers) and providing the best therapeutic services with high technologies in the service of Iraq and its generous people and meeting the requirements of the labor market.

### 3. The Objectives of the Academic Program

- Graduating qualified staff to work in the dialysis centers, and these staffs provide excellent health services to patients with renal failure.
- Actively participating in the follow up process of renal failure patients regarding the strict treatment regimen by regularly taking medications and in terms of the dietary specifications of this segment of society.
- Providing awareness-raising services for patients with renal failure through seminars and field visits and effective contribution to the early detection of patients with renal failure.
- Participate in advanced professional training that is compatible with international standards in order to achieve high levels of renewed expertise in the field of dialysis.

# 4. The Program Accreditation

N/A

# 5. Other External Influences

N/A

6. Program Structure				
Course Structure	Number of Courses	Credit Units	(%)	Reviews
Institutional Requirements	15	28	17	
College Requirements	12	27	17	N
Department Requirements	36	107	66	, J
Summer Training		A.S.		satisfied
Other	E 4	8,4	A 1000	N.

7. Progran	n Description			
Year /	Cauraa Cada	Carriag Name	Credit	Hours
Level	Course Code	Course Name	Theoretical	Practical
	NTU 100	Democracy and Human rights	2 Hours	24//
	NTU 101	English Language	2 Hours	4//
	NTU 102	Computer	2 Hours	/ / 1.5 Hour
	NTU 103	Arabic Language	2 Hours	1 /
	NTU 104	Sports or French	2 Hours	f -
	1 / Y July 2	Language		
	CHMTK 111	Medical Terminology	2 Hours	
	CHMTK 112	General Chemistry	2 Hours	1.5 Hour
1 <sup>st</sup>	CHMTK 113	General Biology	2 Hours	1.5 Hour
	RDT 111	Human Physiology	2 Hours	1.5 Hour
	RDT 112	<b>General Histology</b>	2 Hours	1.5 Hour
	RDT 123	Basics of	2 Hours	1.5 Hour
		Biochemistry		
	RDT 124	<b>General Anatomy</b>	2 Hours	1.5 Hour
	RDT 125	<b>Human Biology</b>	2 Hours	1.5 Hour
	RDT 126	Clinical Physiology	2 Hours	1.5 Hour
	RDT 127	Principles of Nursing	2 Hours	1.5 Hour

		CHMTK 211	Medical Psychology	2 Hours	
		CHMTK 212	Metabolism	2 Hours	1.5 Hour
		RDT 211	Haematology	2 Hours	1.5 Hour
	1st	RDT 212	General Pathology	2 Hours	1.5 Hour
		RDT 213	General Pharmacology	2 Hours	1.5 Hour
		RDT 214	Specialized Anatomy	2 Hours	1.5 Hour
		RDT 215	<b>Public Health</b>	2 Hours	
		NTU 211	English language	2 Hours	
2 <sup>nd</sup>		NTU 212	Crimes of the Baath Regime	2 Hours	
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8. Expected learning	g outcomes of the program
→ Knowledge	
Outcome Learning 1	The student gets to know the principles of the kidneys in the human body
Outcome Learning 2	The student will be familiar with the various types of devices used for dialysis
Outcome Learning 3	The student will recognize the necessity of finding easier ways to relieve the patient's burden by developing specialized devices for dialysis.
Outcome Learning 4	the student have to recognize the importance of increasing cadres in this specialty due to their scarcity in the country
→ Skills	
Outcome Learning 1	The student must be able to complete the dialysis process accurately and quickly, especially for urgent cases
Outcome Learning 2	The student will be able to perform the basics of rapid nursing when needed
Outcome Learning 3	The student should be able to come up with plans for development and expansion in this field for the benefit of society
Outcome Learning 4	The student must reacts quickly to critical cases to bring the patient to a more stable condition
→ Values	
Outcome Learning 1	The student should realize the importance of this department to the society and medical personnel
Outcome Learning 2	The student must realize the difficulty of the patient's condition and give all his knowledge, experience, and values to alleviate the patient's condition
Outcome Learning 3	To plan periodic maintenance for dialysis machines on a regular basis in a way that does not conflict with patients
Outcome Learning 4	That the student realizes the importance of introducing new and advanced dialysis devices in the country, which reduces the pressure on the available devices and gives more opportunities to the patient.

### 9. Teaching and Learning Strategies

Theoretical Lessons

Laboratory training

**Conduct laboratory** experiments

**Practical Lessons** 

Conduct scientific discussions with

Show video clips of *laboratory* 

students

experiments

Sending students to hospitals for training Holding seminars and conferences

Assistance in supervising graduation research

### 10. Evaluation Methods

Oral exams

Weekly exams

Monthly exams

Quick quiz

**Presenting Seminars** 

Midterm exam

Making scientific reports and essays

Practical exams

Final exam

11. Faculty i	vieilibers			
Titles	Special	ization	Num	bers
rities	General	Special	Staff	lec
Prof	Pharmacology	Pharmacology		W/ /
Prof	clinical laboratory diagnosis	clinical biochemistry	2 2	7/
Asst. Prof	None	None		
Lecturer	General medicine and surgery	Kidney and urinary tract surgery		
Lecturer	Medical Microbiology	Medical Microbiology		
Lecturer	General medicine and surgery	Kidney and urinary tract surgery		
Lecturer	Nursing	Adult Nursing		
Asst. Lecturer	biology	Microbiology	2	
Asst. Lecturer	Veterinary	Parasite	Z	
	medicine			
Teaching	Pathological		1	
Asst.	Analytics			
	Techniques			

### **Professional Development**

### **Mentoring New Faculty Members**

Guidance and directing are provided to new recruits in the Department of Industrial Kidney Techniques by engaging those concerned in training workshops and holding specialized seminars in their work, as well as development courses.

### **Professional Development for Faculty Members**

Creating developmental sessions by involving them in teaching and then making an evaluation through a referendum by the stages they taught.

### 10. Admission Criteria

The target group for admission to the department of industrial kidney techniques is graduates of secondary school in the scientific section only with a grade point average of no less than 70 present.

The application mechanism to study in the department will be after the announcement of the high school results and the opening of the gate for admission by the registration department at the presidency of Al Bayan university.

### 11. Key Sources of Information about the Program

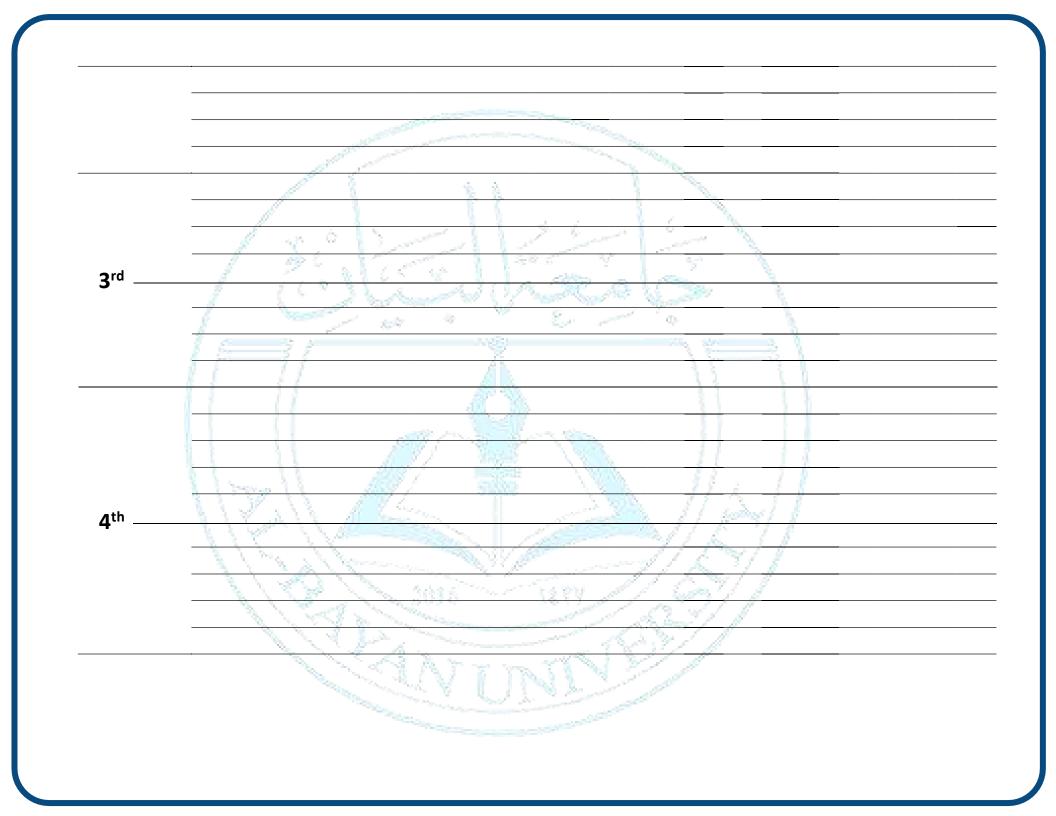
- 1- The university's website and other websites
- 2- Prescribed scientific references, including books and magazines related to the academic curriculum
- 3- Lectures presented by faculty members in the department

### 14. Program Development Plan

Thanks to the teaching staff of the Department of Industrial Kidney Techniques, positive and amazing results have emerged, knowing that it is a new department in the College of Health and Medical Techniques. Therefore, a professional academic plan was made to develop the department's program by accelerating the opening of more laboratories for the new department in order to increase the speed of scientific production for the students of the industrial kidney department and their acquisition of scientific and practical experience in this field, in addition to teaching the students the importance of field and bringing them to the highest levels of careful dealing with the patient due to the sensitivity of this specialty

			Progr				tcom	es Re	auire	d fr	m th	e Pro	ram		
	Course		Primary or		Know			es ite	es Required from the Pr Skills					lues	
Year/Level	Code	Course Title	Optional	A1				B1	B2	В3	В4	<b>C1</b>	C2	<b>C3</b>	C4
		Democracy	Primary	✓	✓	-	-40	1	✓			✓	✓	✓	
	NTU	& Human	1 7					100	·						
	100	rights		9.	<u> </u>		- 6		1						
	1 1	English	Primary	✓-	<b>√</b>		and the second	✓	1	à.		$\checkmark$	$\checkmark$		
	NTU	Language		/488	Ser .	.es	150	g So-		8					
	101			Transfel .	Sugar	865				<u> </u>					
	/	Section 1	Primary	$\checkmark$	<b>✓</b>		Φ.	✓	$\checkmark$	<b>√</b>		$\checkmark$	✓		
	NTU	Computer						V 1000		=3,	Ŋ.				
	102	A la i a	Duin die					15			4				
	NTU	Arabic	Primary	$\checkmark$	$\checkmark$			$\checkmark$	✓			✓	✓		
	103	Language													
	103	Sports or	Optional	1	1			1	<b>√</b>	+	+	<b>√</b>	<b>√</b>		
1 <sup>st</sup>	NTU	French	Optional					-13	·	- }	ŀ	•	•		
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	111	A family					9 ]	A.	3/	J.					
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	112	chemistry	Mark Commence	and the same	المستحدث المد	and the same of th	42	3/1	J.						
	A.	General	Primary		<b>\</b>	<b>√</b>	. 34.	<b>√</b>	<b>√</b>	<b>√</b>		<b>√</b>	✓	✓	
	CHMTK	Biology	Arrow	48	S.	3	97	A. Carrier							
	113	The Market of the Control of the Con		1 jure	3	and the same	No. of Street, or other Persons								
		Human	Primary	<b>\</b>	<b>√</b>	$\checkmark$	per'	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	
	RDT 111	Physiology													

			General	Primary	✓	✓	✓	✓	<b>√</b>	✓	✓	✓	✓
		RDT 112	Histology										
		RDT 123	Basics of	Primary	<b>√</b>	<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
			Biochemistry			The State of the S	The state of	<u> </u>					
		<b>RDT 124</b>	General	Primary	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
			Anatomy	<u> </u>				1	L				
		RDT 125	Human	Primary	$\checkmark$	. 🗸	$\checkmark$	√ √	<b>√</b>	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
			Biology		200				1				
		RDT 126	Clinical	Primary	- V	✓	✓	· · · ·	$\checkmark$	✓	$\checkmark$	$\checkmark$	$\checkmark$
		1 1	Physiology		A. B		1 B	Contract of the Contract of th		N.			
		RDT 127	Principles of	Primary	<b>√</b>	✓	✓	· √	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
		<i>1</i>	Nursing		**	). Je				. 3			
		CHMTK 211	Medical Psychology	Primary	✓	✓	✓	✓	<b>√</b>	<b>√</b>	✓	✓	✓
		CHMTK 212	Metabolism	Primary	√	✓	✓	✓	✓	✓	✓	✓	✓
		RDT 211	Haematology	Primary	<b>√</b>	<b>√</b>	✓	✓	✓	✓	✓	✓	✓
		RDT 212	General Pathology	Primary	✓	<b>✓</b>	\ \ \	/	√	<b>√</b>	✓	✓	<b>√</b>
	1st	RDT 213	General Pharmacology	Primary	<b>√</b>	✓	<b>√</b>			1	✓	<b>√</b>	✓
nd		RDT 214	Specialized Anatomy	Primary	V		<b>/</b>	// /	1		✓	<b>√</b>	✓
		RDT 215	Public Health	Primary	√	✓	1	J	1	<b>∮</b> √	$\checkmark$	$\checkmark$	$\checkmark$
		NTI 1 211	English language	Primary	Ţ			1	1		✓	✓	
		NTII 212	Crimes of the Baath Regime	Optional							✓		
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# Course Description (1)

	Course Description (1)								
1. (	Cours	se Title	Huma	<b>Human Rights and Democracy</b>					
2.0	2. Course Code			00					
3. \$	Seme	ster/Year	The first semester/first stage of study						
4. I	Descr	ription Preparation Date	2024/9/	/29					
<b>5.</b> A	vail	able Attendance Form	Theore	etica					
6. N	No. of	f Hours (Total)	30 hou	ırs (	Theoretical )				
7. N	No. of	f Credits (Total)	2						
8.0	Cours	se Administrator Name	Asst.F	Prof.	Dr Hayder Abdulkadhim				
9. F	E-ma	il							
10.	C	ourse Objectives							
	A1	Learn about human rights a exploitation	and justic	ce an	d resist all forms of abuse and				
Knowledge	A2		nd human rights are an important topic, agreements were concluded to protect						
10v	<b>A3</b>								
K	<b>A4</b>								
	B1	The student will be familia equality in rights and dutie		e con	cepts of freedom, justice, and				
	B2	Practicing peaceful social l rights and practices	life thanl	ks to	the rule of law and equality of citizens				
Skills	<b>B3</b>								
S	<b>B4</b>								
	C1	Motivating the positive impas applied to peoples who			ng democracy in its correct form, democracy for decades				
Se	C2	That the human being is the ultimate goal of the ruling regimes and the sense of this through dealing with Various official institutions							
Values	<b>C3</b>	23							
Š	<b>C4</b>								
11.	.Tea	ching and Learning Stra	tegies						
1. Traditional lectures using a projector 4.									



2.	Establishing dialogues with students	5.	
3.		6.	



<b>12.</b> T	12. The Structure of the Course					
Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method	
1	2	Cognitive and qualifying	Learn about human democracy In general	Lectures and discussions	Theoretical exams	
2	2	Cognitive and qualifying	Definition of right, right and man, elements of right Pillars of truth	Lectures and discussions	Theoretical exams	
3	2	Cognitive and qualifying	The difference between right and freedom, the difference between rights  Human and public freedoms	Lectures and discussions	Theoretical exams	
4	2	Cognitive and qualifying	Stages of human rights Development Human rights in Mesopotamia Civilization	Lectures and discussions	Theoretical exams	
5	2	Cognitive and qualifying	Human rights resources International source for human rights	Lectures and discussions	Theoretical exams	
6	2	Cognitive and qualifying	National Source for Human Rights	Lectures and discussions	Theoretical exams	
7	2	Cognitive and qualifying	Causes of human rights violations	Lectures and discussions	Theoretical exams	
8	2	Cognitive and qualifying	Mechanisms for international human rights protection	Lectures and discussions	Theoretical exams	
9	2	Cognitive and qualifying	Introduction to the concept of democracy	Lectures and discussions	Theoretical exams	
10	2	Cognitive and qualifying	Definition of democracy and the idea of its historical development	Lectures and discussions	Theoretical exams	
11	2	Cognitive and qualifying	Democracy in Mesopotamia civilization	Lectures and discussions	Theoretical exams	



			The difference between freedom		
			democracy		
12	2	Cognitive and qualifying	Forms and images of democracy	Lectures and discussions	Theoretical exams
13	2	Cognitive and qualifying	Popular referendum, its types, democracy Consociationalism, liberal democracy	Lectures and discussions	Theoretical exams
14	2	Cognitive and qualifying	Conditions and components of the democratic system, components Key elements of democracy		Theoretical exams
15	2	Cognitive and qualifying	General Review	Lectures and discussions	Theoretical exams



Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Required textbooks	Curriculum in human rights and
(curricular if any)	democracy
Main References	None
(sources)	
Recommended Books & References	Magazines and books on the concept of
(Scientific Journals, Reports)	human rights and democracy
Websites or Electronic References	Visual and audio awareness programs



# Course Description (2)

1. Course Title			English language			
2. Course Code			NTU 101			
3. S	eme	ster/Year	First s	First semester / 2023-2024		
4. I	Descr	ription Preparation Date	2024/9/	′29		
5. A	vail	able Attendance Form	Presen	ce		
6. N	No. of	f Hours (Total)	30 Hou	ırs A	nnually	
7. N	Vo. of	f Credits (Total)	2			
8.0	Cour	se Administrator Name	Dr. Ha	mid	a Tomas Jasim	
9. F	E-ma	il	Sahart	toma	as82@gmail.com	
10.	C	ourse Objectives				
4)	A1	Knowledge of specific acad	demic subjects.			
Knowledge	<b>A2</b>	Improve written skills through practice of writing descriptions, reports and other subject specific texts				
nov	<b>A3</b>					
M	A4					
Skills	B1	Enable students to commus work or study environment		ore co	onfidently and effectively in their	
Š	<b>B2</b>					
Values	C1	Assigning a specific grade English lesson.	to the stu	ıdent'	s activity and participation in the	
Š	C2	Testing the student through	h the quarterly exam			
11.	Tea	ching and Learning Stra	tegies			
1.	Qui	zzes		4.		
2.		tures		5.		
3.		ng Datashow to explain the	:	6.		
	lessons					



<b>12</b> .	The Structure of the Course
14.	The bulleture of the course

Week	Hours	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>	
1	2	Acquire knowledge	Identify parts of speech in English language	Theoretical explanation	Attendance + quize	
2	2	Acquire knowledge	Verbes and tenses	Theoretical explanation	Attendance + quize	
3	2	Acquire knowledge	Countable and uncountable nouns	Theoretical explanation	Attendance + quize	
4	2	Acquire knowledge	adjective and adverbs	Theoretical explanation	Attendance + quize	
5	2	Acquire knowledge	Quiz Question+ Verb Groups	Theoretical explanation	Attendance + quize	
6	2	Acquire knowledge	Definite and indefinite tools	Theoretical explanation	Attendance + quize	
7	2	Acquire knowledge	Identify some common mistakes in English	Theoretical explanation	Attendance + quize	
8	2	Acquire knowledge	Simple Past and Simple Present Verb Tenses	Theoretical explanation	Attendance + quize	
9	2	Acquire knowledge	Simple Future + Giving Oral Presentations	Theoretical explanation	Attendance + quize	
10	2	Acquire knowledge	Continuous past and Continuous Present Verb Tenses	Theoretical explanation	Attendance + quize	
11	2	Acquire knowledge	Continuous Future	Theoretical explanation	Attendance + quize	
12	2	Acquire knowledge	Exercise application	Theoretical explanation	Attendance + quize	
13	2	Acquire knowledge	Identify some common mistakes in English	Theoretical explanation	Attendance + quize	
14	2	Acquire knowledge	English communication + reading passages	Theoretical explanation	Attendance + quize	
15	2		Final exam			



Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports ..... etc

Required textbooks	New Headway Beginner
(curricular if any)	
Main References	New headway Beginner student's Book
(sources)	
Recommended Books & References	New headway Beginner student's Book
(Scientific Journals, Reports)	5 <sup>th</sup> edition 2019
	New headway Beginner teacher's Guide
	5th edition 2019
Websites or Electronic References	https://www.academia.edu



# Course Description (3)

1. Course Title			Computer 1				
2. Course Code			NTU 102				
3. S	3. Semester/Year			1 <sup>st</sup> semester / 2023-2024			
4. D	)escr	ription Preparation Date	2024/9/	29			
5. A	vaila	able Attendance Form	On-Site				
6. N	lo. of	f Hours (Total)	30 hours	3			
7. N	lo. of	f Credits (Total)	2				
8. C	Cours	se Administrator Name	Asst. Le	ct. Mustafa Mohammed Hammoodi			
9. E	E-mai	I	tuhafi.19	989@gmail.com			
10.	C	ourse Objectives					
	<b>A1</b>	Computer System Operation					
dge	A2	Windows Operating System					
Knowledge	A3						
Kno	A4						
	B1	Working on Windows Opera	ating System				
	B2						
Skills	В3						
S	B4						
	C1	Computer System Importan	се				
les	C2						
Values	C3						
	C4	phing and Lagraina Ctratagia					
	11. Teaching and Learning Strategies			De sumante del catalia			
1.		eractive Lecture	4.	Documented Lecture			
2.							
3. Practical Practice 6.							



<b>12.</b>	The Structure of the Course	

Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
1	2	Projector Slides	Computer System Basics	Visual, Auditory, and Kinesthetic	Summative
2	2	Projector Slides	Starting Windows	Visual, Auditory, and Kinesthetic	Summative
3	2	Projector Slides	Applications Windows	Visual, Auditory, and Kinesthetic	Summative
4	2	Projector Slides	Desktop and Taskbar	Visual, Auditory, and Kinesthetic	Summative
5	2	Projector Slides	Computing Sessions	Visual, Auditory, and Kinesthetic	Summative
6	2	Projector Slides	Applications Shortcuts	Visual, Auditory, and Kinesthetic	Summative
7	2	Projector Slides	Desktop Icons	Visual, Auditory, and Kinesthetic	Summative
8	2	Projector Slides	File System	Visual, Auditory, and Kinesthetic	Summative
9	2	Projector Slides	Files and Folders	Visual, Auditory, and Kinesthetic	Summative
10	2	Projector Slides	File Explorer	Visual, Auditory, and Kinesthetic	Summative
11	2	Projector Slides	Accounts and Permissions	Visual, Auditory, and Kinesthetic	Summative
12	2	Projector Slides	Date and Time	Visual, Auditory, and Kinesthetic	Summative
13	2	Projector Slides	Region and Language	Visual, Auditory, and Kinesthetic	Summative
14	2	Projector Slides	System Restore	Visual, Auditory, and Kinesthetic	Summative
15	2	Projector Slides	System Backup	Visual, Auditory, and Kinesthetic	Summative



### 13. Course Evaluation 60% Theoretical 40% Practical (Lab.) 14.Learning & Teaching Resources Required textbooks (curricular if any) Main References Joan Lambert, Windows 10 Step by Step, 2<sup>nd</sup> edition, Microsoft Corp. (sources) Andy Rathbone, Windows 10 For **Recommended Books & References** (Scientific Journals, Reports ...) **Dummies Websites or Electronic References** www.microsoft.com



# Course Description (6)

			ı		( )	
1.0	Cour	se Title	Medical Terminology			
2. Course Code			CHMTK111			
3. \$	eme	ester/Year	2023-20	023-2024		
4. I	Descr	ription Preparation Date	2024/9/29	024/9/29		
<b>5.</b> A	vail	able Attendance Form	Students	s' a	ttendance	
6. N	No. of	f Hours (Total)	2 / per we	eek		
		f Credits (Total)	2			
		se Administrator Name		· G	haith Ali Jasem	
0. (	Jour	se Administrator Name	FIOI. DI		maitii Ali Jaseili	
9. F	E-ma	il	ghaith.a	a@	albayan.edu.iq	
10.	C	ourse Objectives				
lge	<b>A1</b>	Introducing medical termin	nology concept to students			
Knowledge	<b>A2</b>	Knowing how medical terms is formed				
nov	<b>A3</b>	Understanding of the formulation of medical terms				
K	<b>A4</b>	Fluency in describing patie	nt's conditions			
	<b>B1</b>	build medical linguistic ski	build medical linguistic skills			
	<b>B2</b>	Standardize documentation				
Skills	<b>B3</b>	Improve communication skills with medical staff				
S	<b>B4</b>	Ability to describe health s	status with p	tatus with patient in the common language		
	C1	Promoting accuracy, safety	y, and effica	, and efficacy in patient's care		
es	<b>C2</b>	Providing patient's with treatment plan with same common goals				
Values	<b>C3</b>					
>	<b>C4</b>					
11.	.Tea	ching and Learning Stra	tegies			
1.	Lect	ture based instructions	4.		Inquiry based instruction	
2.	Tecl	hnology based learning	5.	<b>.</b>	Summative learning	
3.	Cooperative learning			·	Differentiation	
	-					



<b>12.</b> T	12. The Structure of the Course						
Week	Hours	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>		
1	2		Introduction to anatomy,	Student attendance	quiz		
2	2		Body organizations, & anatomical positions	Student attendance	quiz		
3	2		Body regions, cavities, planes	Student attendance	Quiz		
4	2		Directional terms, tissues, a membranes	Student attendance	Quiz		
5	2		Cardiovascular system	Student attendance	Quiz		
6	2		Digestive system	Student attendance	Quiz		
7	2		Musculo-skeletal system	Student attendance	Quiz		
8	2		Endocrine system	Student attendance	quiz		
9	2		Respiratory system	Student attendance	Quiz		
10	2		Urinary system	Student attendance	Quiz		
11	2		Abdomen	Student attendance	Quiz		
12	2		Blood	Student attendance	Quiz		
13	2		Immune system	Student attendance	Quiz		
14	2		Head & Neck	Student attendance	Quiz		
15	2		Reproductive system	Student attendance	Quiz		



Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports etc

Required textbooks	Collins, C. Edward: A Short Course in
(curricular if any)	Medical
Main References	Collins, C. Edward: A Short Course in
(sources)	Medical
Recommended Books & References	Collins, C. Edward: A Short Course in
(Scientific Journals, Reports)	Medical
Websites or Electronic References	



# Course Description (7)

Course Description (7)						
1.0	Cour	se Title	General Chemistry 1			
2. Course Code			CHMTK 112			
3. Semester/Year			First semester/2023-2024			
4. I	)escr	ription Preparation Date	2024/9/29			
5. A	Avail	able Attendance Form	Attendance in the classroom in addition to e- learning			
6. N	<b>Vo.</b> 0	f Hours (Total)	4			
7. N	<b>lo.</b> 0	f Credits (Total)	3			
8.0	Cour	se Administrator Name	Dr. Samar Thamer Hameed			
9. E	E-ma	il	Samar.thamer@albayan.edu.iq			
10.	C	ourse Objectives				
	A1	Knowing the basics of atomatter (solid, liquid, and g	ns, elements, and compounds, and studying the states aseous)			
	A2	The student should be familiar with how to prepare solutions of differ concentrations, in addition to identifying ions and organic materials				
edge	<b>A3</b>	The student learns about acids and bases that are important in detecting differ chemical elements				
Knowledge	A4	The practical general chemistry course is concerned with security and saf procedures within the laboratory and how to deal with hazardous materials, ac and bases				
	<b>B1</b>	The student should be able	to acquire basic knowledge and skills in chemistry			
	<b>B2</b>	Teaching the student how the prescribed curriculum	to become able to think logically, analyze, and emp vocabulary.			
SO.	В3	Developing the student's mental and personal ability in the specialty is an import part of his field of specialization				
B4 Providing the student with communication skills and using modern technologies effectively.			h communication skills and using modern educatio			
	C1	The student should be ab chemical analysis problem	le to work collectively and work individually to so s			
S	<b>C2</b>	The student should be able	to use information technology to search for informati			
Values	<b>C3</b>	The student should be able	to communicate with the professor and colleagues			
C4 The student must be able to rely on himself						
11. Teaching and Learning Strategies						



1.	Providing an appropriate	4.	Use the display screen to lecture
	educational climate for logical		and the blackboard.
	thinking through continuous		
	guidance of students during lectures		
2.	Opening the door for open and	5.	Visit the library
	direct discussions with students		-
3.	Follow a cooperative learning	6.	Directing the student to websites to
	strategy		benefit from them



## 12. The Structure of the Course

Week	H ou rs	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
1	2	A1, B1	Introduction to analytical chemistry (ma structure of atom, periodic table, bonds)	Acquiring information for electronics structure of the at	Oral questions
2		A2, B2, B3, B4, C1, C2, C3, C4	Methods of analysis Solution (preparation of standard solution concentration, percentage, formal. Sol.	Know the difference betw qualitative and quantita analysis	solving equations
3		A2, B2, B3, B4, C1, C2, C3, C4	Molar solution, Normal solution	How to calculate concentrati	solving equations
4		B2, B3, B4, C1, C2, C3, C4	Statistical treatment of analytical (accuracy, Mean value, deviation, stan deviation mean, value systematic err relative error, random and absolute error)	Knowledge of some statis treatments for labora results	solving equations
5		A2, A3, B2, B3, B4, C1, C2, C3, C4	Chemical reaction (equilibrium cons reaction rate, catalyst solubility, ionization	Learn about the types chemical reactions and how calculate the equilibr constant	
6		A2, A3, B2, B3, B4, C1, C2, C3	Neutralization (acid base theory, PH, Buffers end point) Oxidation reduction Equilibria	Identify bases, acids, and bu solutions	solving equations
7		A2, A3, B2, B3, B4, C1, C2, C3, C4	Precipitation methods (gravimetry) formation of ppt., type of agent titration, calculations	Knowledge of sedimenta methods and gravime analysis of the sediment	= =
8		B2, B3, B4, C1, C2, C3, C4	Spectroscopy (Optical spectroscopy, Beer's law)	Know the basics of how to us spectrophotometer	Discussions
9		A2, B2, B3, B4, C1, C2, C3, C4	Structure of carbon compounds (alka alkenes, alkynes, halogen compound)	Identify organic chemistry hydrocarbon compounds	Oral questions and discussions
10		A2, B2, B3, B4, C1, C2, C3, C4	Alcohols, classification, properties reaction	Identify alcohols, t preparation methods, and t interactions	Oral questions and discussions



11, 12		Aldehydes and ketones properties reaction	Identify aldehydes and keto	Oral questions and discussions
,			their preparation methods,	
	A2, B2, B3, B4, C1, C2, C3, C4		their reactions	
13, 14, 15		Carboxyl acid, amines	Identify carboxylic acids	Oral questions and discussions
			amines, methods of t	
	A2, B2, B3, B4, C1, C2, C3, C4		preparation and reactions	

Week	Ho urs	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>
1	2	A4, C4	Laboratory instruction, safety rule, equipment	Providing the student with experience in dealing with chemicals and equipment	Oral questions
2	2	A2, B1, B2, B3, B4, C1, C2, C3, C4	Identification of some common inorganic cation	Detect the presence of some inorganic positive ions	Conducting practical experiments
3	2	A2, B1, B2, B3, B4, C1, C2, C3, C4	Identification of some common inorganic anions	Detect the presence of some inorganic negative ions	Conducting practical experiments
4	2	B3, B4, C1, C2, C3, C4	Practice With balances (preparation of different types of solutions.Percentage sol (w/v %, v/v %, w/w %) ppm	How to prepare solutions with different concentrations	Conducting practical experiments
5	2	B1, B3, B4, C1, C2, C3, C4	Normal solution, molar solution, dilution	How to prepare solutions with different concentrations	Conducting practical experiments
6	2	A3, B1, B2, B3, B4, C1, C2, C3, C4	Buffer solutions preparation and PH determination	How to prepare buffer solutions and know their importance	Conducting practical experiments
7	2	B1, B3, B4, C1, C2, C3, C4	Neutralization reaction (Standardization of NaOH against standard HCL Determination of acetic acid in vinegar Determination of a mixture of carbonate, bicarbonate	Determine unknown concentrations	Conducting practical experiments
8	2	B1, B3, B4, C1, C2, C3, C4	Redox titration Titration of KMNO4 solution against oxalic acid	Determine unknown concentrations	Conducting practical experiments



9	2		Precipitation reaction, determination of	Determine unknown	Conducting practical experiments
		B1, B3, B4, C1, C2, C3, C4	halides Cl-ion	concentrations	
10	2	B1, B3, B4, C1, C2, C3, C4	Separation and purification of organic compound Distillation, extraction crystallization, sublimation	How to separate and purify organic compounds	Conducting practical experiments
11	2	B1, B3, B4, C1, C2, C3, C4	Determination of melting point Determination of boiling point	Learn the basics of organic diagnosis	Conducting practical experiments
12	2	B1, B3, B4, C1, C2, C3, C4	Reaction of some organic compounds (Aliphatic, aromatic alcohols phenols, aldehyde and ketone)	Knowledge of some reactions of organic compounds	Conducting practical experiments
13	2	B1, B3, B4, C1, C2, C3, C4	Aliphatic and aromatic carboxylic acid	Knowledge of some carboxylic acid reactions	Conducting practical experiments
14, 15	2	A2, B1, B3, B4, C1, C2, C3, C4	Scheme for identification of solid organic compound	Learn the basics of organic diagnosis	Conducting practical experiments



Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Required textbooks	
(curricular if any)	
Main References	Katherine J. Denniston, Danaè R. Quirk,
(sources)	Joseph J. Topping, Robert L. Caret -
	General, Organic, and Biochemistry-
	McGraw-Hill)2023(
Recommended Books & References	Spencer L. Seager, Michael R. Slabaugh,
(Scientific Journals, Reports)	Maren S. Hansen - Chemistry for Today_
	General, Organic, and Biochemistry-
	Cengage Learning)2021(
Websites or Electronic References	https://www.sciencedirect.com/
	https://pubmed.ncbi.nlm.nih.gov/



# Course Description (7)

		Course	Description (7)			
1.0	Cour	se Title	<b>General Chemistry 1</b>			
2.0	2. Course Code		CHMTK 112			
3. S	eme	ester/Year	First semester/2023-2024			
4. I	)escr	ription Preparation Date	2024/9/29			
5. A	vail	able Attendance Form	Attendance in the classroom in addition to e- learning			
6. N	<b>lo.</b> 0	f Hours (Total)	4 ( 2 Theoretical + 2 Practical ) per week			
7. N	<b>lo.</b> 0	f Credits (Total)	3			
8.0	Cour	se Administrator Name	Dr. Samar Thamer Hameed			
9. E	E-ma	il	Samar.thamer@albayan.edu.iq			
10.	C	ourse Objectives				
	A1	Knowing the basics of atoms, elements, and compounds, and studying the states matter (solid, liquid, and gaseous)				
	<b>A2</b>	The student should be familiar with how to prepare solutions of differ concentrations, in addition to identifying ions and organic materials				
edge	<b>A3</b>	The student learns about acids and bases that are important in detecting differ chemical elements				
Knowledge	A4	The practical general chemistry course is concerned with security and saf procedures within the laboratory and how to deal with hazardous materials, ac and bases				
	<b>B1</b>	The student should be able	to acquire basic knowledge and skills in chemistry			
	<b>B2</b>	Teaching the student how the prescribed curriculum	to become able to think logically, analyze, and emp vocabulary.			
SO.	В3	Developing the student's mental and personal ability in the specialty is an import part of his field of specialization				
Skills	<b>B4</b>	Providing the student with technologies effectively.	n communication skills and using modern educatio			
	C1	The student should be ab chemical analysis problem	le to work collectively and work individually to so s			
Š	<b>C2</b>	The student should be able	to use information technology to search for informati			
Values	<b>C3</b>	The student should be able	to communicate with the professor and colleagues			
\sqrt{3}	<b>C4</b>	The student must be able to	o rely on himself			
11.	Tea	ching and Learning Stra	tegies			



1.	Providing an appropriate	4.	Use the display screen to lecture
	educational climate for logical		and the blackboard.
	thinking through continuous		
	guidance of students during lectures		
2.	Opening the door for open and	5.	Visit the library
	direct discussions with students		-
3.	Follow a cooperative learning	6.	Directing the student to websites to
	strategy		benefit from them



	12. The Structure of the Course					
Week	H ou rs	RLOs	Topic/Subject Name	Learning Method	Evaluation Method	
1	2	A1, B1, B2, B3, B4, C1, C2, C3, C4	Cells: The units of life: 1- Cells and membranes. 2- Prokaryotic and eukaryotic cells. 3- Subcellular organelles	Gain information about ce structure	Oral questions and Discussion	
3 •2	4	A1, A2, A3, B1, B2, B3, B4, C1, C2, C3	Carbohydrates: 1- Definition. 2- Biological functions. 3- Classification. 4- Digestion and absorption.	Knowing the chemical form of carbohydrates and their r in the human body	Oral questions and Discussion	
5 4	4	A1, A2, A3, B1, B2, B3, B4, C1, C2, C3	Lipids: 1- Definition. , 2- Biological functions. 3- Classification. 4- Digestion and absorption	Knowing the chemical form of fats and their role in th human body	Oral questions and Discussion	
7 (6	4	A1, A2, A3, B1, B2, B3, B4, C1, C2, C3	Amino acids and Proteins:  1- Definition.  2- Biological functions.  3- Classification.  4- Digestion and absorption.	Knowing the chemical form of proteins and their role in human body	Oral questions and Discussion	
9 48	4	A1, A2, A3, B1, B2, B3, B4, C1, C2, C3	Hormones: 1- Definition. 2- Classification according to their chemical nature. 3- Names and physiological functions of hypothalamic, pituitary, thyroid, parathyroid, suprarenal, pancreatic and sex gland hormones	Knowing the chemical form of hormones and their role the human body	Oral questions and Discussion	
11 -10	4	A1, A2, A3, B1, B2, B3, B4, C C2, C3, C4	Nucleotides and Nucleic acids: 1- Definition. 2- Classification of nitrogenous bases.	Knowing the chemical form of nucleic acids and their rol the human body	Oral questions and Discussion	



			<ul><li>3- Biological functions of free nucleotides.</li><li>4- General structure and differences betw DNA and RNA.</li></ul>		
13 -12	4	A1, A2, A3, B1, B2, B3, B4, C1, C2, C3	1- General properties of enzymes: a) active sites b) catalytic efficiency c) specificity d) cofactor	Know the chemical formula enzymes and their role in t human body	Oral questions and Discussion
15 •14	4	A1, A2, A3, B1, B2, B3, B4, C1, C2, C3,	Vitamins: 1- Definition. 2- Classification (Water and Fat soluble vitamins). 3- Members of each class as regards chemical nature, sources, daily requirement, biological function and abnormal conditions due to deficiency or toxicity	Knowing the chemical form of vitamins and their role in human body	Oral questions and Discussion

Week	Ho urs	RLOs	Topic/Subject Name	Learning Method	Evaluation Method
,	2	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Carbohydrates (monosacharides) Molish test Benedict, Barfoid test, Bile, Selfanof test, Osazon test	Conducting practical experiments	Conducting practical experiments
۲	2	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Disacharides (hydrolysis of disacharides by acids)	Diagnosis of disaccharides	Conducting practical experiments
3، 4	4	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Polysacharides Hydrolysis of polysaccharides by acids Hydrolysis of polysaccharides by saliva	Diagnosis of polysaccharides	Conducting practical experiments
6 ،5	4	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Scheme for identification of unknown carbohydrate sol	Determine the type of carbohydrates	Conducting practical experiments



7	2	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Quantitative estimation of glucose by quantitative Benedict sol	Calculate glucose concentration	Conducting practical experiments
10 ،9 ،8	6	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Proteins Biuret test, Sakaguchi test, cysteine test Ninhydrin test, xantho protein test, Molish test	Protein diagnosis	Conducting practical experiments
11، 12	4	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Precipitation of proteins (ionic strength PH, temp solvent)	Protein precipitation methods	Conducting practical experiments
14 ،13	4	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Paper chromatography techniques	Learn about paper chromatography technology	Conducting practical experiments
15	2	A1, A2, A3, A4, B1, B2, B3, B4, C1, C2, C4	Thin layer chromatography techniques	Learn about thin layer chromatography technology	Conducting practical experiments



Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Required textbooks	
(curricular if any)	
Main References	Katherine J. Denniston, Danaè R. Quirk,
(sources)	Joseph J. Topping, Robert L. Caret -
	General, Organic, and Biochemistry-
	McGraw-Hill)2023(
Recommended Books & References	Spencer L. Seager, Michael R. Slabaugh,
(Scientific Journals, Reports)	Maren S. Hansen - Chemistry for Today_
	General, Organic, and Biochemistry-
	Cengage Learning)2021(
Websites or Electronic References	https://www.sciencedirect.com/
	https://pubmed.ncbi.nlm.nih.gov/



# Course Description (8)

1. Course Title					General Biology	
2. C	2. Course Code			CHMTK 113		
3. S	3. Semester/Year			2024/2023		
4. D	escr	iption Preparation Date			2024/9/29	
5. A	vaila	able Attendance Form			Theoretical + Practical	
6. N	o. of	Hours (Total)		(30)	) Theoretical + (30) Practical	
7. N	o. of	Credits (Total)			3	
<b>8.</b> C	cours	se Administrator Name	As	sist	ant lecturer Ali bashir alwan	
9. E	-mai	1			Ali.b@albayan.edu.iq	
10.	Co	ourse Objectives				
lge	A1	Know the properties of living	ng organ	isms		
Knowledge	<b>A2</b>	2 Classification of living organisms				
nov	<b>A3</b>	Cellular studies				
×	A4	Study of the genetic code				
	<b>B1</b>	Recognizing the basic unit	of life			
70	<b>B2</b>	Learn about the cell life cyc	cle			
Skills	<b>B3</b>	Identify the body systems				
S	<b>B4</b>	Identify bacteria and viruse	S			
	<b>C1</b>	Studies on parts of the hum	an body			
es	<b>C2</b>	Studies on the chemistry of	life			
Values	<b>C3</b>	Studies on the properties of	living o	rganis	sms	
Ä	<b>C4</b>	Study of cell divisions				
11.	Teac	ching and Learning Strate	egies			
1.	Atte stud	mpting practical application of the	oretical	4.	Many short-term scientific missions	
2.		tinuously developing the curriculum	n	5.	More tests to develop students' level	
3.	Continuous review of international educ systems			6.	Continuous interaction with other universities to identify differences in teaching methods	



<b>12.</b> T	12. The Structure of the Course					
Week	Hours	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>	
1	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Cell divisions (meiosis and meiosis)	Theoretical study and practical applications	Conduct quick exams	
2	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Cell divisions (meiosis and meiosis)	Theoretical study and practical applications	Conduct quick exams	
3	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Cell divisions (meiosis and meiosis)	Theoretical study and practical applications	Conduct quick exams	
4	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Different body systems	Theoretical study and practical applications	Conduct quick exams	
5	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Different body systems	Theoretical study and practical applications	Conduct quick exams	
6	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Different body systems	Theoretical study and practical application	Conduct quick exams	
7	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Different body systems	Theoretical study and practical application	Conduct quick exams	
8	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Cell chemistry	Theoretical study and practical application	Conduct quick exams	
9	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Cell chemistry	Theoretical study and practical application	Conduct quick exams	
10	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Cell organelles	Theoretical study and practical application	Conduct quick exams	



11	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Cell organelles	Theoretical study and practical application	Conduct quick exams
12	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Bacteria	Theoretical study and practical application	Conduct quick exams
13	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	vii uaca	Theoretical study and practical application	Conduct quick exams
14	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Fungi	Theoretical study and practical application	Conduct quick exams
15	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Principles of genetics (End of first semester)	Theoretical study and practical application	Conduct quick exams



Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Required textbooks	Basics of human biology
(curricular if any)	
Main References	General references
(sources)	
Recommended Books & References	International references and scientific
(Scientific Journals, Reports)	journals
Websites or Electronic References	)Human biology( website



# Course Description (9)

1.0	Cour	se Title	Human physiology		
2.0	Cour	se Code	RDT 111		
3. S	eme	ester/Year	First semester / First stage		
4. I	<b>Descr</b>	ription Preparation Date	2024/9/29		
5. A	vail	able Attendance Form	Mandatory		
6. N	No. of	f Hours (Total)	60 hrs (2 Theory + 2 Practical per week for 15 weeks)		
7. N	No. of	f Credits (Total)	3		
8.0	Cour	se Administrator Name	Prof. Dr. Waleed Hameed Yousif		
9. F	E-ma	il	waleed.h@albayan.edu.iq		
10.	C	ourse Objectives			
	A1 Knowing the mechanisms of work of the various organs of the both the systems controlling them				
lge	<b>A2</b>				
Knowledge	A3	Knowing the outcomes of some functional disorders and the diseases resulting from them			
<b>\(\frac{1}{2}\)</b>	<b>A4</b>	Knowing the functional r	relationships in the work of the body's systems		
	<b>B</b> 1	Understanding the precis	e regulation of the work of the body's systems		
	<b>B2</b>	Linking the physiologica	l concepts to the practical life		
<b>50</b>	В3	Understanding the importance of studying the functions of body organs in applied fields			
Skills	<b>B4</b>	Understanding the relation biological issues	onship between organ functions and related		
	C1	Communicating with the concepts of the body	student in understanding the physiological		
	C2	Developing the skills of the student by linking the theoretical side with the practical reality			
es	С3	Developing the sense of and help him accepting to	responsibility and expand the student's perception he scientific material		
and help him accepting the scientific material  C4 Developing the concepts of team work and harnessing it to serve the community					
11.	11. Teaching and Learning Strategies				



1.	Lecture using data show	4.	Reports writing
2.	Laboratory experiments	5.	
3.	Conversation with the students	6.	



12. T	12. The Structure of the Course						
Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method		
1	2 theoretical	Educational	Introduction of physiology,	Lecture	Theoretical and		
	2 laboratory	qualifying	Cell structure and function	experiment and discussion	Practical examinations		
2	2 theoretical	Educational	Movement of molecules	Lecture	Theoretical and		
	2 laboratory	qualifying	across cell membranes	experiment and discussion	Practical examinations		
3	2 theoretical	Educational	Physiology of blood	Lecture	Theoretical and		
	2 laboratory	qualifying		experiment and discussion	Practical examinations		
4	2 theoretical	Educational	Thermoregulation and	Lecture	Theoretical and		
	2 laboratory	qualifying	Homeostasis	experiment and discussion	Practical examinations		
5	2 theoretical	Educational	Endocrine system and	Lecture	Theoretical and		
	2 laboratory	qualifying	Hormones (lecture no.1)	experiment and discussion	Practical examinations		
6	2 theoretical	Educational	Endocrine system and	Lecture	Theoretical and		
	2 laboratory	qualifying	Hormones (lecture no.2)	experiment and discussion	Practical examinations		
7	2 theoretical	Educational	Urinary (renal) system	Lecture	Theoretical and		
	2 laboratory	qualifying	(lecture no.1)	experiment and discussion	Practical examinations		
8	2 theoretical	Educational	Urinary (renal) system	Lecture	Theoretical and		
	2 laboratory	qualifying	(lecture no.2)	experiment	Practical examinations		



				and discussion	
9	2 theoretical	Educational	Nervous system	Lecture	Theoretical and
	2 laboratory	qualifying	(lecture no.1)	experiment	Practical examinations
				and discussion	
10	2 theoretical	Educational	Nervous system	Lecture	Theoretical and
	2 laboratory	qualifying	(lecture no.2)	experiment and discussion	Practical examinations
11	2 theoretical	Educational	The integument (Skin,	Lecture	Theoretical and
	2 laboratory	qualifying	hair, nails, glands and several specialized receptors)	experiment and discussion	Practical examinations
12	2 theoretical	Educational	Anatomy, structure and	Lecture	Theoretical and
	2 laboratory	qualifying	function of blood vessels	experiment and discussion	Practical examinations
13	2 theoretical	Educational	Pressure and fluid	Lecture	Theoretical and
	2 laboratory	qualifying	dynamics	experiment and discussion	Practical examinations
14	2 theoretical	Educational	Control of blood pressure	Lecture	Theoretical and
	2 laboratory	qualifying		experiment	Practical examinations
				and discussion	
15	2 theoretical	Educational	Physiology of respiration	Lecture	Theoretical and
	2 laboratory	qualifying		experiment and discussion	Practical examinations



Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports etc

Required textbooks	/
(curricular if any)	
Main References	Ganong's Review of medical physiology,
(sources)	Kim E. Barrett <i>et al.</i>
	McGraw Hill Lange
Recommended Books & References	1. Textbook of medical physiology.
(Scientific Journals, Reports)	A.C.Guyton & J.E.Hall . Saunders
	Elsevier
	2. Journals of physiology
Websites or Electronic References	/



# Course Description (10)

1. (	. Course Title Ger				stology	
2.0	2. Course Code			RDT 112		
3. S	3. Semester/Year Yea			/ear		
4. I	Descr	ription Preparation Date	2024/9/	/29		
<b>5.</b> A	vail	able Attendance Form	Lectur	es a	nd laboratory	
6. N	No. of	f Hours (Total)	30 hour 30 hour	`	eory) cactical)	
7. N	lo. of	f Credits (Total)	3			
8.0	Cour	se Administrator Name	Dr. Ah	nme	d Turki Hani	
9. E	E-ma	il	ahme	dt@	albayan.edu.iq	
10.	C	ourse Objectives				
ge	A1		_		t the structure of the human cells, tissues and um, connective tissues, including blood, bone	
\led	<b>A2</b>	Learn the student the microscop	ic structure of the different human tissues.			
Knowledge	<b>A3</b>	Facilitate the integration of Hist	tology with gross Anatomy, Physiology and Biochemistry.			
K	A4	Acquire student the skills of usi	ing the microscope and identifying the normal structures.			
	<b>B1</b>	Describe the normal ultra-structur	e of the cell	l.		
700	<b>B2</b>	Describe the organization and con	nponents of the human body.			
Skills	<b>B3</b>	Correlate between the predominar	nce of a cell	l organ	elle and the function of the cell.	
S	<b>B4</b>	Correlate between histological stru	ucture & fu	nction	of different organs of all systems.	
	C1	Describe the normal ultra-structur				
es	C2	Describe the organization and con				
Values	<b>C3</b>	•	nce of a cell organelle and the function of the cell.			
				nction	of different organs of all systems.	
		ching and Learning Stra		_		
1.	1. Use professionally the light microscope to obt information from histological slides in the laboratory.			4.		
2.	Ident for va	ify and select various types of speciarious tissues.		5.		
3.	Work collec	c constructively in a group sharing hagues in the resources available.	nis/her	6.		



<b>12.</b> 7	12. The Structure of the Course					
Week	Hours	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>	
1	2 th+2 p		Introduction and overview methods used in histology, Classification Histology, Tissue preparatio	Data show and white board	Quiz/homework	
2	2 th+2 p		Overview of Cell structure types	Data show and white board	Quiz/homework	
3	2 th+2 p		Tissues: Concept and classifications of primary tissues	Data show and white board	Quiz/homework	
4	2 th+2 p		Epithelial tissue: Simple Ep. T., Compound Ep. T.	Data show and white board	Quiz/homework	
5	2 th+2 p		The glandular Tissues (The Glands)	Data show and white board	Quiz/homework	
6	2 th+2 p		Connective and Supportive Tissue: Embryonic and adult C.T.	Data show and white board	Quiz/homework	
7	2 th+2 p		Connective Tissue proper (General C.T.)	Data show and white board	Quiz/homework	
8	2 th+2 p		Cartilage, Histogenesis, Growth and repair of cartilag	Data show and white board	Quiz/homework	
9	2 th+2 p		Bone & Histogenesis of Bone	Data show and white board	Quiz/homework	
10	2 th+2 p		The Blood	Data show and	Quiz/homework	



			white board	
11	2 th+2 p	The haemopoietic organ (bone marrow), Formation of blood cells.	Data show and white board	Quiz/homework
12	2 th+2 p	Muscular tissue	Data show and white board	Quiz/homework
13	2 th+2 p	Nervous tissue: Overview nervous system (CNS & PNS)	Data show and white board	Quiz/homework
14	2 th+2 p	Nervous system: the Nerve cells (neurons) and their classification	Data show and white board	Quiz/homework
15	2 th+2 p	Supporting cells of nervous system	Data show and white board	Quiz/homework



# Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports etc 14. Learning & Teaching Resources Required textbooks (curricular if any) Main References (sources) Recommended Books & References

(Scientific Journals, Reports ...)
Websites or Electronic References



# Course Description (12)

Course Description (12)					
1.0	Cour	se Title	Basics of Biochemistry		
2. Course Code			RDT123		
3. S	eme	ester/Year	Second semester/2023 - 2024		
4. I	)esci	ription Preparation Date	2024/9/29		
5. A	vail	able Attendance Form	Theoretical sessions and practical activities		
6. N	<b>lo.</b> 0:	f Hours (Total)	60 hours (2 theory + 2 practical/ week)		
7. N	<b>Vo.</b> 0	f Credits (Total)	3		
8.0	Cour	se Administrator Name	Professor Dr. Muzahim muhammad		
9. E	E-ma	il	Muzahim.m@albayan.edu.iq		
10.	C	ourse Objectives			
gp	<b>A1</b>	Give a general idea about b	oiochemistry		
wle	<b>A2</b>	Identify the basic informati	on that qualifies for clinical chemistry		
Knowledg	A3	Enabling students to become references and sources in b	ne familiar with the most important iochemical sciences		
		<b>Enabling students to possess</b>	the skills to work in laboratories and conduct		
		scientific experiments			
	B2		d interpret all medical terms and symbols		
Skills	B3	•	ave the ability to use modern devices and technologies is the skills of using scientific research tools in the		
Sk	<b>B4</b>	academic field			
	B5	Enabling students to posses and accepting their opinion	s the skills of dialogue, discussion, listening to others as		
	<b>B6</b>	Enabling students to posse and skills	ess self-learning skills to acquire new information		
	C1		student in understanding the chemical		
	CI	concepts of the body			
	Ca	Developing the skills of the student by linking the theoretical side with			
	C2	the practical reality			
	C3	Developing the sense of responsibility and expand the student's percentage.			
C3 11 1 1: 4: 4: 4: 4: 1					
and nelp nim accepting the scientific material  C4 Developing the concepts of team work and harnessing it to serve the					
	Too	community	togics		
11. Teaching and Learning Strategies					



2.	Establishing dialogues with	1.	Traditional preparations using a
	students		projector
		3.	Laboratory experiments



12.	12. The Structure of the Course					
Wee k	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method	
1	2 theoretical 2 laboratory	Educational qualifying	General introduction	Lecture, experimen and discussion	Theoretical and Practical examinations	
2	2 theoretical 2 laboratory	Educational qualifying	Carbohydrates: Definition, biological function, classification	Lecture, experimen and discussion	Theoretical and Practical examinations	
3	2 theoretical 2 laboratory	Educational qualifying	Digestion and absorption	Lecture, experimen and discussion	Theoretical and Practical examinations	
4	2 theoretical 2 laboratory	Educational qualifying	Lipids: Definition, biological function, classification	Lecture, experimen and discussion	Theoretical and Practical examinations	
5	2 theoretical 2 laboratory	Educational qualifying	Digestion and absorption	Lecture, experimen and discussion	Theoretical and Practical examinations	
6	2 theoretical 2 laboratory	Educational qualifying	Amino acids and Proteins: Definition, biological function, classification	Lecture, experimen and discussion	Theoretical and Practical examinations	
7	2 theoretical 2 laboratory	Educational qualifying	Digestion and absorption	Lecture, experimen and discussion	Theoretical and Practical examinations	
8	2 theoretical 2 laboratory	Educational qualifying	Hormones:	Lecture, experimen and discussion	Theoretical and Practical examinations	
9	2 theoretical 2 laboratory	Educational qualifying	Hormones:	Lecture, experimen and discussion	Theoretical and Practical examinations	
10	2 theoretical 2 laboratory	Educational qualifying	Nucleotides and Nucleic acids:	Lecture, experimen and discussion	Theoretical and Practical examinations	
11	2 theoretical	Educational	Nucleotides and Nucleic acids:	Lecture, experimen	Theoretical and	



	2 laboratory	qualifying		and discussion	Practical examinations
12	2 theoretical	Educational	Enzymes: General properties	Lecture, experimen	Theoretical and
	2 laboratory	qualifying		and discussion	Practical examinations
13	2 theoretical	Educational	Enzymes: Factors affecting reaction	Lecture, experimen	Theoretical and
	2 laboratory	qualifying	velocity	and discussion	Practical examinations
14	2 theoretical	Educational	Vitamins: Classification (water and	Lecture, experimen	Theoretical and
	2 laboratory	qualifying	Fat soluble vitamins)	and discussion	Practical examinations
15	2 theoretical	Educational	Vitamins: Chemical nature, sources,	Lecture, experimen	Theoretical and
	2 laboratory	qualifying	Biological functions, deficiency	and discussion	Practical examinations



Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports ..... etc

Required textbooks	NON
(curricular if any)	
Main References	Lippincott illustrated reviews biochemistry
(sources)	Authors: Emine E. Abali, Susan D.Cline, David
	S.Franklin, Susan M.Viselli PhD
Recommended Books & References	HARPER'S
(Scientific Journals, Reports)	ILLUSTRATED BIOCHEMISTRY
	Authors: Victor W. Rodwell ,Kathleen M.Botham
Websites or Electronic References	Biochemical websites



# Course Description (12)

1. (	Cour	se Title	Gener	General Anatomy		
2.0	Cour	se Code	RDT1	24		
3. \$	3. Semester/Year 20			2023-2024		
4. I	Descr	ription Preparation Date	2024/9	/29		
<b>5.</b> A	vail	able Attendance Form	Studen	ıts' at	tendance system	
6. N	No. 0	f Hours (Total)	60 hrs.	. ( 30 1	heoretical + 30 Practical )	
7. N	No. 0	f Credits (Total)	3			
		se Administrator Name	Dr. Ibra	ahim	Mudhafar Saadoon	
9. I	E-ma	il	<u>Dr.ibra</u>	hims	adoon@gmail.com	
10.	C	ourse Objectives			-	
	A1	<u> </u>	n anatomy at the macroscopic level			
Knowledge	A2	_	ystems-based and regional anatomy			
10W	A3	Explain structures of body of				
K	<b>A4</b>	Define the basic anatomica	l charact	eristic	cs of the kidney and renal system	
	<b>B1</b>	Gain familiarity to human b	ody and	orgar	S	
	<b>B2</b>	Apply medical terminology	knowled	lge		
Skills	В3	Train the eye on surface an	atomy			
S	<b>B4</b>	Build a base for clinical exar	mination	and b	pasic interventions skills	
	C1	Pave the way for students t	o involve	e with	patients	
es	<b>C2</b>		alth and wellbeing in a scientific way			
Values	C3 Provide the bases for future			e dialysis therapeutic practices		
,	r olessional interaction with sta			nd col	leges	
11.	. Tea	ching and Learning Stra	tegies			
1.		hnology based learning		4.	Summative learning	
2.		dules lab training		5.	Response to intervention	
3.	Cadaveric observational learning			6.	Student led teaching	



12. T	2. The Structure of the Course					
Week	Hours	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>	
1	2th+2p	Gain familiarity to human body	Introduction to anatomy, body organizations anatomical positions	Students attendance	Quiz	
2	2th+2p understanding basic body divisions		Body regions, cavities, planes and sections	Students attendance	Quiz	
3	2th+2p	Understanding anatomical term	Directional terms, tissues and membranes	Students attendance	Quiz	
4	2th+2p	Systematic anatomy understanding	Upper limb	Students attendance	Group task	
5	2th+2p	Systematic anatomy understanding	Lower limb	Students attendance	Quiz	
6	2th+2p	Systematic anatomy understanding	Thorax	Students attendance	Quiz	
7	2th+2p	Systematic anatomy understanding	Abdomen	Students attendance	Quiz	
8	2th+2p	Systematic anatomy understanding	Pelvis	Students attendance	Group task	



9	2th+2p	Systematic anatomy understanding	Head & Neck	Students attendance	Quiz
10	2th+2p	Systematic anatomy understanding	Musculo-skeletal system	Students attendance	Quiz
11	2th+2p	Systematic anatomy understanding	Digestive system	Students attendance	Quiz
12	2th+2p	Systematic anatomy understanding	Cardiovascular system	Students attendance	Group task
13	2th+2p	Systematic anatomy understanding	Respiratory system	Students attendance	Quiz
14	2th+2p	Systematic anatomy understanding	Urinary system	Students attendance	Quiz
15	2th+2p	Systematic anatomy understanding	Reproductive system	Students attendance	Quiz



Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports etc

Required textbooks	Netter's atlas of human anatomy
(curricular if any)  Main References	Netter's atlas of human anatomy
(sources)	·
Recommended Books & References	Netter's atlas of human anatomy
(Scientific Journals, Reports)	
Websites or Electronic References	Mobile free app's on human anatomy



# Course Description (13)

1.0	'aur	se Title	Human Biology			
					3.	
2. Course Code			RDT 125			
3. S	3. Semester/Year			2024/2023		
4. D	escr	iption Preparation Date			2024/9/29	
5. A	vail	able Attendance Form			Theoretical + Practical	
6. N	o. of	f Hours (Total)		(30	) Theoretical + (30) Practical	
7. N	o. of	f Credits (Total)			3	
<b>8.</b> C	Cours	se Administrator Name	As	sist	ant lecturer Ali bashir alwan	
9. E	-mai	il			Ali.b@albayan.edu.iq	
10.	Co	ourse Objectives				
lge	A1	Know the properties of living organisms				
Knowledge	<b>A2</b>	Classification of living organisms				
nov	<b>A3</b>	Cellular studies				
×	A4	Study of the genetic code				
	<b>B1</b>	Recognizing the basic unit	of life			
7.0	<b>B2</b>	Learn about the cell life cyc	ele			
Skills	<b>B3</b>	Identify the body systems				
S	<b>B4</b>	Identify bacteria and viruses	S			
	<b>C1</b>	Studies on parts of the huma	an body			
es	<b>C2</b>	Studies on the chemistry of	life			
Values	<b>C3</b>	~ ~	living o	rganis	sms	
>	<b>C4</b>	Study of cell divisions				
11.	Teac	ching and Learning Strate	egies			
1.	Atte stud	empting practical application of theories	oretical	4.	Many short-term scientific missions	
2.		tinuously developing the curriculun	1	5.	More tests to develop students' level	
3.				6.	Continuous interaction with other universities to identify differences in teaching methods	



12. The Structure of the Course						
Week	Hours	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>	
1	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Harmful bacterial activities	Theoretical study and practical application	Conduct quick exams	
2	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Harmful bacterial activities	Theoretical study and practical application	Conduct quick exams	
3	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Algae	Theoretical study and practical application	Conduct quick exams	
4	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Primitive animals	Theoretical study and practical application	Conduct quick exams	
5	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	amoeba	Theoretical study and practical application	Conduct quick exams	
6	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Fungi and their harmful effects	Theoretical study and practical application	Conduct quick exams	
7	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Fungi and their harmful effects	Theoretical study and practical application	Conduct quick exams	
8	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Yeasts	Theoretical study and practical application	Conduct quick exams	
9	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Vertebrates and invertebrates	Theoretical study and practical application	Conduct quick exams	
10	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Vertebrates and invertebrates	Theoretical study and practical application	Conduct quick exams	



11	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	The human body's own defenses	Theoretical study and practical application	Conduct quick exams
12	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	The human body's own defenses	Theoretical study and practical application	Conduct quick exams
13	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Worms	Theoretical study and practical application	Conduct quick exams
14	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Worms	Theoretical study and practical application	Conduct quick exams
15	2Th+2p	The student must be aware of information provided to him and extent of its application to reality	Scientific steps	Theoretical study and practical application	Conduct quick exams



Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.

Required textbooks	Basics of human biology
(curricular if any)	
Main References	General references
(sources)	
Recommended Books & References	International references and scientific
(Scientific Journals, Reports)	journals
Websites or Electronic References	)Human biology( website



# Course Description (14)

1.0	Cour	se Title	Clinical physiology			
2.0	Cour	se Code	RDT126			
3. \$	Seme	ester/Year	Second semester / First stage			
4. I	Descr	ription Preparation Date	2024/9/29			
<b>5.</b> A	Avail	able Attendance Form	Mandatory			
6. N	No. of	f Hours (Total)	60 hrs (2 Theory + 2 Practical per week for 15 weeks)			
7. N	No. of	f Credits (Total)	3			
8.0	Cour	se Administrator Name	Prof. Dr. Waleed Hameed Yousif			
9. F	E-ma	il	waleed.h@albayan.edu.iq			
10.	C	ourse Objectives				
	A1	Knowing the mechanism systems controlling it	s of work of the urinary system and the			
	<b>A2</b>					
Knowledge	A3	Knowing the outcomes of some functional disorders and the diseases resulting from them				
Knov	A4	Knowing the functional relationships in the work of the kidney and body's systems				
	<b>B1</b>	Understanding the precis	se regulation of the work of the urinary system			
	<b>B2</b>	Linking the physiologica	l concepts to the practical life			
70	В3	Understanding the important system in the applied field	tance of studying the functions of the urinary lds			
Skills	B4	Understanding the relation related biological issues	onship between urinary system functions and			
	C1	Communicating with the concepts of the urinary s	student in understanding the physiological ystem			
	C2	Developing the skills of the practical reality	the student by linking the theoretical side with the			
Sa	C3	Developing the sense of and help him accepting to	responsibility and expand the student's perception he scientific material			
Values	C4		of team work and harnessing it to serve the			



11	11. Teaching and Learning Strategies					
1.	Lecture using data show	4.	Reports writing			
2.	Laboratory experiments	5.				
3.	Conversation with the students	6.				



12. T	12. The Structure of the Course							
Week	Hours	RLOs	Topic/Subject Name	Learning Method	Evaluation Method			
1	2 theoretical 2laboratory	Educational qualifying	Definition of kidney, structure, functions	Lecture experiment and discussion	Theoretical and Practical examinations			
2	2 theoretical 2 laboratory	Educational qualifying	The man extra-renal structure (nephrons)	Lecture experiment and discussion	Theoretical and Practical examinations			
3	2 theoretical 2 laboratory	Educational qualifying	Urinary bladder – structure, function	Lecture experiment and discussion	Theoretical and Practical examinations			
4	2 theoretical 2 laboratory	Educational qualifying	Ureter and urethra, structure, function	Lecture experiment and discussion	Theoretical and Practical examinations			
5	2 theoretical 2 laboratory	Educational qualifying	Renal tubules , types , structure , function	Lecture experiment and discussion	Theoretical and Practical examinations			
6	2 theoretical 2 laboratory	Educational qualifying	Renal circulation	Lecture experiment and discussion	Theoretical and Practical examinations			
7	2 theoretical 2 laboratory	Educational qualifying	Urination process Glomerular filtration rate, definition, normal value, factors affecting it	Lecture experiment and discussion	Theoretical and Practical examinations			



8	2 theoretical	Educational	Discussion, review	Lecture	Theoretical and
	2 laboratory	qualifying		experiment	Practical examinations
				and discussion	
9	2 theoretical	Educational	Tubular reabsorption, sites,	Lecture	Theoretical and
	2 laboratory	qualifying	substances reabsorbed,	experiment	Practical examinations
			mechanism of reabsorption	and discussion	
10	2 theoretical	Educational	Tubular secretion, site,	Lecture	Theoretical and
	2 laboratory	qualifying	substances secreted,	experiment	Practical examinations
			mechanism of secretion	and discussion	
11	2 theoretical	Educational	Renal function tests	Lecture	Theoretical and
	2 laboratory	qualifying		experiment	Practical examinations
				and discussion	
12	2 theoretical	Educational	Discussion, review	Lecture	Theoretical and
	2 laboratory	qualifying		experiment	Practical examinations
				and discussion	
13	2 theoretical	Educational	Renal failure , types , risk	Lecture	Theoretical and
	2 laboratory	qualifying	factors , physiology	experiment	Practical examinations
				and discussion	
14	2 theoretical	Educational	Causes of renal failure	Lecture	Theoretical and
	2 laboratory	qualifying		experiment	Practical examinations
				and discussion	
15	2 theoretical	Educational	Final examination	Lecture	Theoretical and
	2 laboratory	qualifying		experiment	Practical examinations
				and discussion	



Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports etc

Required textbooks	/
(curricular if any)	
Main References	Ganong's Review of medical physiology,
(sources)	Kim E. Barrett <i>et al.</i>
	McGraw Hill Lange
D 1 1D 1 0 D C	1 TD 1 1 C 1 1 1 1 1
Recommended Books & References	1. Textbook of medical physiology.
(Scientific Journals, Reports)	A.C.Guyton & J.E.Hall . Saunders
	Elsevier
	2. Journals of physiology
Websites or Electronic References	/



# Course Description (15)

Course Description (12)						
1. Course Title P			Princ	Principles of nursing		
2. Course Code			RDT 127			
3. S	eme	ester/Year	Secon	d sei	mester 2023 -2024	
4. I	Descr	ription Preparation Date	2024/9	/29		
<b>5.</b> A	vail	able Attendance Form	Availa	ble a	and online	
6. N	No. of	f Hours (Total)	3 hour	rs /we	ekly ( 1 theoretical + 2 practical )	
7. N	No. of	f Credits (Total)	2			
8.0	Cour	se Administrator Name	Lect.	Sara	h abdullatef kadhim	
9. F	E-ma	il	Sarah	.a@a	lbayan.edu.iq	
10.	C	ourse Objectives				
	<b>A1</b>	The student gets to know the	ne basics	s of ni	arsing skills in the correct scientific way	
Knowledge	A2	The student will learn wh	nat are the ways of transmission of infection betw			
)wl	A3	patients and how to avoid and treat it				
Kno	A4					
		The student gets to know t	he corre	ct me	thods of dealing with a natient inside	
	B1	The student gets to know the correct methods of dealing with a patient inside hospital				
<b>SO</b>	<b>B2</b>	The student should avoid to	ransmitting infection when dealing with patients			
Skills	<b>B3</b>					
S	<b>B4</b>					
	C1	The student must be an exercises to the patient and			in providing the best medical and hea on's life	
S	C2	The student must have cor the patient's pain and suffe		nowle	edge of the correct methods for reduc	
Values	<b>C3</b>	1				
Va	<b>C4</b>					
11.	.Tea	ching and Learning Stra	tegies			
1.	Bra	instorming		4.	Role-playing and application to the doll in the laboratory	
2.	Elec	ctronic screen and presenta	ations	5.	E-learning and the use of its platforms	
3.	Cor	perative education		6.	piatioi ilis	
	Cooperative education					



12	Tho	Structi	ira of th	e Course
14.	THE	Structi	ire oi ui	e Course

Week	Hours	RLOs	Topic/Subject Name	Learning Method	<b>Evaluation Method</b>
1	1th+2p	Theoretical: basics of nursing, definition (nursing, nurse, health, hospital)	Fundamentals of nursing	Method of giving lectures Discussion method	Written tests Oral exams Applied practical
		Practical: patient examination general1		Presentations	tests
2	1th+2p	Theoretical: patient management and discharge from the hospital, detailed plan, oral report, theoretical report, nursing process (assessment, planning, implementation, evaluation)		Method of giving lectures Discussion method Presentations	Written tests Oral exams
		Practical: patient examination general 2			
3	1th+2p	Theoretical: physical examination and preparing the patient for the examinatio the role of the nurse in the physical examination, collecting models, preparing tools.	Physical examination	Method of giving lectures Student groups Brainstorming	Oral exams
		Practical: measuring respiration and pulse			
4	1th+2p	Theoretical: body mechanics, body position principles of body positions, its uses a complications		Method of giving lectures Cooperative	Oral exams



		Practical: measuring blood pressure		education And discussions	
5	1th+2p	Theoretical: The basic needs of the patie caring for the patient's unit, arranging the bed, reasons for lack of physical comfort, mental health, and psychological and spiritual support for patients.  Practical: Learn to measure body temperatur	Patient care	Method of giving lectures Discussion method ole-playing method Collaborative metho	Written tests Oral exams
6	1th+2p	Theoretical: Body hygiene, care of the teeth, skin, and mouth, patient bathing and it types, bed sores (its causes, types, and how avoid them).  Practical: Teaching hand washing	Bedsores	E-Learning Discussion method	Written tests Oral exams
7	1th+2p	Theoretical: Fluids and nutrients, nutrition, nutrients used with kidney failure Practical: A visit to the hospital	Nutrients	Method of giving lectures Discussion method	Written tests Oral exams
8	1th+2p	Theoretical: sterilization method, surgical sterilization, medical sterilizati types of disinfectants, wound sterilization  Practical: Discussion about the patient's positions	Wound sterilization	Method of giving lectures Discussion method	Written tests Oral exams
9	1th+2p	Theoretical: vital signs, temperature,	Vital Signs	Method of giving	Written tests



		methods for measuring it and their locations measuring the pulse, its methods and locations.  Practical: Discussion about the patient's positions		lectures Discussion method	Oral exams
10	1th+2p	Theoretical: breathing and methods measuring it, measuring blood pressure and methods  Practical: Discussion about the patient's positions	Vital Signs	Method of giving lectures Discussion method Role acting Collaborative metho	Written tests Oral exams
11	1th+2p	Theoretical: Giving medications, methods types of administration, cold and compresses  Practical: discussion, review, exam	Giving medications	Method of giving lectures Discussion method	Written tests Oral exams
12	1th+2p	Theoretical: Kidney dialysis unit, principles and functions  Practical: Video about types of fluids	Kidney dialysis	Method of giving lectures Discussion method	Written tests Oral exams
13	1th+2p	Theoretical: Fluids used in the dialysis unit, their types, uses, and side effects	Nutrients	Method of giving lectures	Written tests Oral exams



		Practical: Video about types of fluids		Discussion method	
14	1th+2p	Theoretical: catheters, their types, uses, advantages, reasons for using them, contraindications, and nursing intervention in them.  Practical: Types of catheters	Catheterization	Method of giving lectures Discussion method	Written tests Oral exams
15	1th+2p	Theoretical: surgical nursing, nursing care before and after dialysis	Nursing care after dialysi	Method of giving lectures Discussion method	Written tests Oral exams
		Practical: A visit to the hospital			



Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily, oral, monthly, written exams, reports etc

Required textbooks	Fundamentals of Nursing book ,tenth edition 2022
(curricular)	Fundamentals of Nursing procedure
Main References	
(sources)	
Recommended Books & References	Scientific Journals
(Scientific Journals, Reports)	
Websites or Electronic References	https://nurseslabs.com/category/nursing
	-notes/fundamentals-of-
	nursing/#google vignette
	Findementals of Nineing - F Book
	Fundamentals of Nursing - E-Book (https://books.google.iq/books?id=eCKKCwAAQBAJ&p
	rintsec=frontcover&hl=ar&source=gbs ge summary r&
	cad=0#v=onepage&g&f=false)
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