



**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**

Academic Program and Course Description Guide

Academic Program Description Form

University Name: Al- Manara College Of Medical Sciences
Faculty/Institute: Al- Manara College
Scientific Department: Renal dialysis technology
Academic or Professional Program Name: Renal Dialysis Technology
Final Certificate Name: Bachelors B.Sc in renal science & dialysis technology (B.Sc. RSDT)
Academic System: 4 academic year -Courses -
Description Preparation Date: 01/09/2023
File Completion Date: 16th February 2024

Signature: 

Head of Department Name:

Dr. Khalid Al-Hadad

Date: (6/2) 2024.



Signature: 

Scientific Associate Name:

Abbasah Khelid

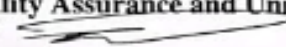
Date:

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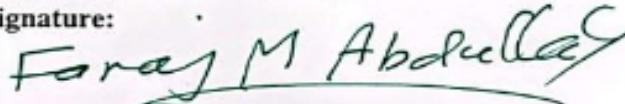
Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:


Date: 16/2/2024


Rashna Abood Hussein

Signature:


Faraj M. Abdulla

Approval of the Dean

 <p>1. Program Vision Mission of BSc Dialysis program is to produce highly qualified, knowledgeable and skillful dialysis technologists who (Qualified faculty, structured curriculum, video demonstration, clinical practice and advanced dialysis setups to meet the future health care needs of the national and international level. Who will be contribute in the field of diagnosis, management, technical and teaching skills in health care institutes. For for patients with chronic kidney diseases (CKD) especially those with end stage renal failure (ESRF)</p>

1. Program Vision

Mission of BSc

Dialysis program is to produce highly qualified, knowledgeable and skillful dialysis technician by high qualified faculty, structured curriculum, video demonstration, clinical practice and advance dialysis setups to meet the future health care needs of the national and international level. Who will be contribute in the field of diagnosis, management, technical and teaching skills in health care institutes. For for patients with chronic kidney diseases (CKD) especially those with end stage renal failure (ESRF)

2. Program Mission

Mission

Our mission is to make a difference in the society, and the field of paramedical in particular, through:

Creating a culture of excellence

Progressive in providing holistic health care service to all

Ensure global standards in paramedical education

Create & foster a centre of excellence for paramedical professionals

Bridging the gap between theory & practical

Better learning

Superior practical exposure

3. Program Objectives

General statements describing what the program or institution intends to achieve.

Objectives

1a) **Objective 1:**

The ability to plan and interpret a management program in Dialysis units with due regard to the patients comfort and economic factors and critical appreciation of techniques, procedures is carried out in the Nephrology

1b) *Strategic Plan to achieve objective 1:*

Students will be taught clinical methods constituting management principles of dialysis along with management of complications occurring during dialysis.

2a) **Objective 2:**

To seek and develop the basic scientific guidelines for scientific discoveries to strengthen knowledge further about dialysis patient requirements. He/she is prepared to invest time and effort to acquire, maintain and further improve his/her own knowledge and skills.

2b) *Strategic Plan to achieve objective 2*

Basic medical sciences will be taught as core subjects in the program for understanding the human body structure, general processes and pathologies etc. Students will be guided about the methods to attain latest knowledge about patient dialysis and apply these techniques effectively in patient management.

3a) **Objective 3:**

The ability and willingness to adopt a problem solving approach to manage clinical/research situations and an understanding of scientific methods is acquired for reliability and validity of research work.

3b) *Strategic Plan to achieve objective 3*

After understanding the clinical approach students will have to manage different clinical problems regarding patients with tough situation. Training through field and clinical projects and understanding of research methodology via lectures, workshops and seminars.

4a) **Objective 4:**

Awareness of the role of professional in health/research/dialysis/welfare teams and his/her willingness to work cooperatively within such teams. The candidate should recognize the importance of teamwork and function as effective member/leader of the team. Awareness of the fact that he/she has to create his/her own professional impact as a capable of Renal Dialysis Technologist.

4b) *Strategic Plan to achieve objective 4:*

Commencement of awareness programs regarding dialysis to other fields associated directly or indirectly to the field of Nephrology to improve the patient health care. Conducive environment for developing technical skills and Exposure to the new horizons of clinical skills, management during dialysis.

5a) Objective 5:

Students will be able to learn the moral values and ethical considerations to be an active and beneficial part of society and be a worthwhile citizen.

5b) *Strategic Plan to achieve objective 5:*

Course will contain the module related to Islamic studies/Ethics/Civics and Iraqi studies to achieve the higher level of morality, righteousness and citizenship in medical field and society.

6a) Objective 6:

To enhance communication skills and mutual cooperation between different medical professionals related to dialysis.

6b) *Strategic Plan to achieve objective 6:*

Lectures of English and presentations in different modules will be conducted to enhance communication skills. Seminars and workshops to enhance mutual cooperation between different medical professionals related to dialysis.

4. Program Accreditation
Does the program have program accreditation? And from which agency?

No more accredited the process under monitoring , evaluation and review

5. Other external influences
Is there a sponsor for the program?

The main sponsor is college of Al-Manara for Medical Sciences with collaboration and partnership with department of renal dialysis in north medical college for medical sciences

6. Program Structure				
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	9	16	10%	14 Basic & Obligatory 2 Optimal
College Requirements	13	29	20%	28 Basic 1 Optional
Department Requirements	40	117	70%	
Summer Training	2	4		
Other	Research work	2		Requirement for graduation at 4th year

* This can include notes whether the course is basic or optional.

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
1st year / Level 1			theoretical	practical
1st year		English language	2	/
1st year		Computer principles	1	2
1st year		Human right	2	/
1st year		Arabic language	2	/
1st year		Democracy	2	/
1st year		Medical terminology	2	/
1st year		General chemistry	2	2
1st year		General biology	2	2
1st year		Human physiology	2	2
1st year		General histology	2	2
1st year		Basic of Biochemistry	1	2
1st year		General anatomy	2	2
1st year		Human biology	1	2

1st year		Clinical physiology	2	2
1st year		Principles of nursing	1	2
1st year		Computer application	1	2
2nd year / Level 2				
2nd year		English Language	2	--
2nd year		Medical Psychology	2	--
2nd year		Metabolism	2	2
2nd year		Biostatistics	1	2
2nd year		Hematology	2	2
2nd year		General pathology	2	2
2nd year		General pharmacology	2	2
2nd year		Specific anatomy	2	2
2nd year		Public health or hospital management	2	/
2nd year		Medical microbiology	2	2
2nd year		Basic immunology	2	2
2nd year		Advanced Biochemistry	2	2
2nd year		Clinical pathology	2	2
2nd year		Specific pharmacology related to kidney	2	2
3rd year / Level 3				
3rd year		English Language	2	/
3rd year		Computer applications	1	2
3rd year		Laboratory safety	2	2
3rd year		Research method	2	/
3rd year		Metabolic disorder	2	2
3rd year		Nutritional diet therapy	2	2
3rd year		Basics of blood transfusion and fluid therapy	2	3
3rd year		Communication skills	2	2
3rd year		Basics of renal dialysis technology	2	2
3rd year		Advanced of blood transfusion and fluid therapy	2	2
3rd year		Healthcare management	2	2
3rd year		Fundamentals of nursing	2	2
3rd year		Advance of renal dialysis technology	2	3
3rd year		Health surveillance or occupational health	2	/
4th year/ Level 4				
4th year		Scientific research methodology	2	/
4th year		Professional ethics	2	/

4th year		Graduation project	/	/
4th year		Preventive and social medicine/Serology & vaccines	1	/
4th year		Applied renal dialysis	2	4
4th year		Hemodialysis	2	2
4th year		Renal emergency	2	2
4th year		Basics of nephrology	2	2
4th year		Advanced applied renal dialysis	2	3
4th year		Peritoneal dialysis	2	2
4th year		Nosocomial infection	2	4
4th year		antibiotics	2	2
4th year		Advanced nephrology	2	2

8. Expected learning outcomes of the program	
Knowledge	
<p>1-The students will be able to work out their knowledge and apply their skills in Dialysis Centers and Nephrology Wards.</p> <p>2- The students 3- Will be able to apply administrative policies and procedures effectively in the performed duties and create his professional impact as a capable Renal Dialysis Technologist</p>	<p>3-Students will be able to effectively communicate with patients and other related medical professionals by creating an authentic bridge between Nephrologists and Dialysis Staff for improvising health care system regarding ESRD patients.</p> <p>4-Will be able to devise improved job methods for increasing efficiency to solve problem to manage clinical and research situations</p>
Skills	
<p>1- The students Will be able to demonstrate effective interpersonal skills with patients, Nephrologists, Staff, technicians and co-workers.</p> <p>.</p> <p>.</p>	<p>3- Will be able to apply administrative policies and procedures effectively in the performed duties and create his professional impact as a capable Renal Dialysis Technologist</p>
<p>2- Will be able to take part in and contribute to the process of continuing professional</p>	<p>4-Will be able to supervise the activity of supporting staff to ensure the team work and function as effective team leader by taking part in planning and implementation of dialysis health care system.</p>

development and keep abreast of new development concerning dialysis according to patient requirements.	
Ethics	
1- The students Will be able to adopt and apply methods and techniques to the individual needs or Capabilities of patients and considering patient's comfort and economic factors.	2-Students will be able to become an effective individual and active part of society and medical field keeping in view the moral and ethical considerations

9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of the program in general.

Student center learning Interactive lectures Seminars Lab work and skill Lab

10. Evaluation methods

Implemented at all stages of the program in general.

Student evaluation and assessment By Formative and summative examination

Mid course and final course written assessment

Program evaluation

By continuous monitoring - internal evaluation

Annual evaluation - Internal and external evaluation

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professors		specialty			5	
Assistant professor		specialty			2	
Consultant		specialty				1
Instructor	General				8	

Professional Development
Mentoring new faculty members
Promotion Research work Conferences Workshops
Professional development of faculty members
Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

Promotion
Research work
Supervision for higher education students
Twining and partnership with other universities

12. Acceptance Criterion
(Setting regulations related to enrollment in the college or institute, whether central admission or others)

Central admission and student selection

13. The most important sources of information about the program
State briefly the sources of information about the program.

Partnership and twining with other institutes of a similar specialty

14. Program Development Plan
1-Updated the educational program of renal dialysis technology according to the KDIGO guidelines and Advances in nephrology 2- Update technology and Specialized laboratories 3- Hem dialysis and peritoneal dialysis advances 4- Increase the practical training hours in a way not affected the total credits for education programme 5- Partnerships with other institute 6- Post graduate study in renal dialysis technologies and nephrology

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A 1	A 2	A3	A 4	B1	B 2	B 3	B 4	C 1	C2	C 3	C 4
1st year / Level 1	Course	English language	Basic												
	Course	Computer principles	Basic												
1st year / Level 1	Course	Human right	Basic												
	Course	Arabic language	Optional												
1st year / Level 1	Course	Democracy	Optional												
	Course	Medical terminology	Basic												
1st year / Level 1	Course	General chemistry	Basic												
	Course	General biology	Basic												
1st year / Level 1	Course	Human physiology	Basic												
1st year / Level 1	Course	General histology	Basic												
1st year / Level 1	Course	Basic of Biochemistry	Basic												
1st year / Level 1	Course	General anatomy	Basic												
1st year / Level 1	Course	Human biology	Basic												
1st year / Level 1	Course	Clinical physiology	Basic												
1st year / Level 1	Course	Principles of nursing	Basic												
1st year / Level 1	Course	Computer application	Basic												
2nd year / Level 2	Course	English Language	Basic												
2nd year / Level 2	Course	Medical Psychology	Basic												
2nd year / Level 2	Course	Metabolism	Basic												
2nd year / Level 2	Course	Biostatistics	Basic												
2nd year / Level 2	Course	Hematology	Basic												
2nd year / Level 2	Course	General pathology	Basic												
2nd year / Level 2	Course	General pharmacology	Basic												
2nd year / Level 2	Course	Specific anatomy	Basic												
2nd year / Level 2	Course	Public health or hospital management	Optional												

2nd year / Level 2	Course	Medical microbiology	Basic																
2nd year / Level 2	Course	Basic immunology	Basic																
2nd year / Level 2	Course	Advanced Biochemistry	Basic																
2nd year / Level 2	Course	Clinical pathology	Basic																
2nd year / Level 2	Course	Specific pharmacology related to kidney	Basic																
3rd year /Level 3	Course	English Language	Basic																
3rd year /Level 3	Course	Computer applications	Basic																
3rd year /Level 3	Course	Laboratory safety	Basic																
3rd year /Level 3	Course	Research method	Basic																
3rd year /Level 3	Course	Metabolic disorder	Basic																
3rd year /Level 3	Course	Nutritional diet therapy	Basic																
3rd year /Level 3	Course	Basics of blood transfusion and fluid therapy	Basic																
3rd year /Level 3	Course	Communication skills	Basic																
3rd year /Level 3	Course	Basics of renal dialysis technology	Basic																
3rd year /Level 3	Course	Advanced of blood transfusion and fluid therapy	Basic																
3rd year /Level 3	Course	Healthcare management	Basic																
3rd year /Level 3	Course	Fundamentals of nursing	Basic																
3rd year /Level 3	Course	Advance of renal dialysis technology	Basic																
3rd year /Level 3	Course	Health surveillance or occupational health	Basic																
4th year / Level 4	Course	Scientific research methodology	Basic																
4th year / Level 4	Course	Professional ethics	Basic																
4th year / Level 4	Course	Graduation project	Basic																
4th year / Level 4	Course	Preventive and social medicine/Serology & vaccines	Basic																

4th year / Level 4	Course	Applied renal dialysis	Basic																
4th year / Level 4	Course	Hemodialysis	Basic																
4th year / Level 4	Course	Renal emergency	Basic																
4th year / Level 4	Course	Basics of nephrology	Basic																
4th year / Level 4	Course	Advanced applied renal dialysis	Basic																
4th year / Level 4	Course	Peritoneal dialysis	Basic																
4th year / Level 4	Course	Nosocomial infection	Basic																
4th year / Level 4	Course	antibiotics	Basic																
4th year / Level 4	Course	Advanced nephrology	Basic																
4th year / Level 4	Course	Scientific research methodology	Basic																
4th year / Level 4	Course	Professional ethics	Basic																
4th year / Level 4	Course	Graduation project	Basic																
4th year / Level 4	Course	Preventive and social medicine/Serology & vaccines	Basic																

- **Please tick the boxes corresponding to the individual program learning outcomes under evaluation.**

Course Description Form

1. Course Name:	
Medical Terminology	
2. Course Code:	
3. Semester / Year:	
1st year / course I and course II	
4. Description Preparation Date:	
01/09 /2023	
5. Available Attendance Forms:	
Lecture halls Laboratories Skill lab	
6. Number of Credit Hours (Total) / Number of Units (Total)	
1st course 30 hour Number of credit 2	
7. Course administrator's name (mention all, if more than one name)	
Name: Ass. Prof. Dr Khalid Obaid Email: mcdmissan@yahoo.com	
8. Course Objectives	
Course Objectives	<p>1 to understand medical terms by breaking them in their component</p> <p>2- to construct medical terms from component parts to express</p> <p>3- to given definitions. ●</p> <p>learn to <u>pronounce, spell, and define medical terms</u> used in this course ●</p> <p>When you have finished <i>Quick Medical Terminology</i>, you will have formed well over 500 medical terms using our word-building strategy ● combining prefixes, suffixes, and word roots to create complex medical terms.</p> <p style="text-align: right;">● </p> <p style="text-align: right;">● </p> <p>● </p>
9. Teaching and Learning Strategies	
Strategy	
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction / Basic elements of the medical words		
2	2		Suffixes and Prefixes		
3	2		Body structure		
4	2		Body planes , section and directional terminology		
5	2		Respiratory system		
6	2		Blood ,lymph and immune system		
7	2		Cardiovascular system		
8	2		Genitourinary system		
9	2		Musculoskeletal system		
10	2		Nervous system		
11	2		Integumentary system (Skin ,Nails ,and glands)		
12	2		Special sense		
13	2		Gynecology and obstetric		
14	2		Pediatric		

11. C2course Eva2luation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<i>Quick Medical Terminology: A Self-Teaching Guide 4th Edition By Shirley Soltesz Steiner, R.N., M.S.</i>
Main references (sources)	<i>Foundation Of Medicine & Medical Terminology By Prof ,Amran Sukrt Basrah university 3- Oxford dictionary</i>
Recommended books and references (scientific journals, reports...)	<i>- Illustrated medical dictionary 5-Comprehensive Medical Terminology rd Edition Betty Davis john</i>
Electronic References, Websites	Use of electronic Lab

Course Description Form

13. Course Name:					
Human Physiology					
14. Course Code:					
1st course / 2nd course					
15. Semester / Year:					
1st semester 1st year					
16. Description Preparation Date:					
17/09/2024					
17. Available Attendance Forms:					
Lecture Halls Laboratories Skill Lab					
18. Number of Credit Hours (Total) / Number of Units (Total)					
1st course : Theory 60 hour + 30 hour practical = 3 credits 2nd course : Theory 60 hour + 30 hour practical = 3 credits					
19. Course administrator's name (mention all, if more than one name)					
Name: Assis. Prof. Khalid Obaid Mohsin Email: mcdmissan@yahoo.com khaledabeed2024@uomanara.edu.iq					
20. Course Objectives					
Course Objectives			<ul style="list-style-type: none"> • To introduce the role of Physiology for Medical technology • Describe the normal Metabolism of Carbohydrates, Lipid, Proteins, • Describe the role of Enzymes, Vitamins and minerals • Perform and detect the Urinary Reducing Substances • Perform and detect the Quantitative • Relevant Practical 		
21. Teaching and Learning Strategies					
Strategy					
22. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Metabolism, Anabolism, Catabolism and ATP,	Interactive	Formative

2	2		Metabolism of Carbohydrate, Protein and Fats. Respiratory System, General function & A&P of upper respiratory system, A&P of lower respiratory system, Physiology of respiration, Lungs volume and capacities.	lectures Seminars Lab Skill lab	examinatio nal (quizzes , reports , Lab work ,attendance)
3	2		Urinary system, Organs of urinary system & structure of kidney Structure & function of nephron, Process of urine Formation & Ureters, Urethra and micturition.		Summative examination (Midcourse paper One hour 30
4	2		Nervous system, Organization of nervous system & structure of neuron and nerve, Meninges and ventricles of brain, circulation of CSF in brain, Structure and function of different parts of brain, Spinal Cord, Cranial and spinal nerves, Autonomic Nervous System.		questions [15 single choice questions + 15 True /False questions] 25 Mark.
5	2		Special Senses. Structure of eye, Physiology if Vision, Structure & function of ear.		+ 15 mark practical total midcourse evaluation = 40 %) (Final course paper 2 hour 60
6	2		Endocrine System. Endocrine gland and Mechanism of action of hormone, Pituitary gland hormones, Thyroid gland & Parathyroid glands, Pancreas and adrenal gland.		questions [30 single choice questions + 30 True /False questions] 35 Mark.
7	2		Reproductive system. Female External and internal genitalia, Female reproductive cycle, Structure of male reproductive System, Male reproductive System continued		+ 25 mark practical total midcourse evaluation = 60 %) Total 1st course marks 100% Minimum pass mark = 50%
8	2		Use and Care of the analytical balance and Weighing		
9	2		Carbohydrates solubility, Reducing Tests, Fermentations,		
10	2		Qualitative tests of Reducing sugars and Detection of unknown sugar		
11	2		Lipid solubility of fats and other lipids, saponification and other properties		
12	2		Protein precipitation of soluble proteins with metallic salts and acids, color tests and dialysi		
13	2		=====		
14-15	2		PRACTICALS DEMONSTRATION ONLY		
	2		White Blood Cell count		
	2		Red Blood Cell count		
	2		Determination of Blood Groups		
	2		Leishman's staining and Differential WBC count		
	2		Determination of packed cell Volume		
	2		Erythrocyte sedimentation rate [ESR]		
	2		Calculation of Blood indices		
	2		Determination of Clotting Time, Bleeding Time		
	2		Blood pressure Recording		
	2		Auscultation for Heart Sounds		
	2		Artificial Respiration		
	2		Determination of vital capacity		
	4				

Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc	
Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Ganong (William F) Review of Medical Physiology. Latest Ed. Appleton A K Jain MLT Venkatesh Sudakar
Main references (sources)	1-Guyton (Arthur) Text Book of Physiology . Latest Ed. Prism Publishers 2-Chatterjee (CC) Human Physiology Latest Ed. Vol. 1, Medical Allied Agency 3-Choudhari (Sujith K) Concise Medical Physiology Latest Ed. New Central Book
Recommended books and references (scientific journals, reports...)	Use on line electronic library

Course Description Form

23. Course Name:					
General chemistry					
24. Course Code:					
1st course / 2nd course					
25. Semester / Year:					
1st semester 1st year					
26. Description Preparation Date:					
17/09/2024					
27. Available Attendance Forms:					
28. Number of Credit Hours (Total) / Number of Units (Total)					
29. Course administrator's name (mention all, if more than one name)					
Name: <i>Professor Hamed Gaforee</i> Email: hamed@uomanara.edu.iq					
30. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> • • • 			
31. Teaching and Learning Strategies					
Strategy					
32. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
33. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
34. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

Course Description Form

Course Name: .1					
Histology					
Course Code: .2					
Semester / Year: .3					
Term					
Description Preparation Date: .4					
2024/2/18					
Available Attendance Forms: .5					
Presence					
Number of Credit Hours (Total) / Number of Units (Total) .6					
60 hour/ 2 unit					
Course administrator's name (mention all, if more than one name) .7					
Name: Hiba Naeem Email: hiba.naeim@gmail.com					
Course Objectives .8					
The student known the basic information in cytology and histology. To identify the four basic types of tissues their structure and functions. The student will be familiar with scientific development in the field of cytology and histology.					
Teaching and Learning Strategies .9					
Theoretical study: theoretical lectures supported by modern means of presentation reinforced with the latest scientific sources and holding seminars in which students participate make dialy quiz					
Course Structure .10					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1			Cell structure and type	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
2			Epithelial tissues and glands	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
3			Epithelial tissues and glands	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
4			Connective tissue	Theoretical scientific lectures +	(Oral questions during the lecture)

				scientific / or interactive media presentations	
5			Connective tissue	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
6			Cartilage	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
7			Bone & ossification	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
8			Blood and haemopoietic tissue (bone marrow)	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
9			Muscular tissue	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
10			Nervous tissue	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
11			Nervous system	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
12			Circulatory system	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)

13			Circulatory system	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
14			Lymphoid system	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
15			The intergumentary system	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
Course Evaluation					
Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

نموذج وصف المقرر

اسم المقرر					
Medical Terminology					
رمز المقرر					
كورسات					
الفصل / السنة					
السنة الاولى الكورس الاول و الكورس الثاني					
تاريخ إعداد هذا الوصف					
2023 /9/1					
أشكال الحضور المتاحة					
القاعات الدراسية - المختبرات مختبرات المهارات السريرية					
عدد الساعات الدراسية (الكلية) / عدد الوحدات (الكلية)					
الكورس الاول 30 ساعة نظري عدد الوحدات الدراسية 2					
اسم مسؤول المقرر الدراسي (اذا أكثر من اسم يذكر)					
الاسم: أ.م.د خالد عبيد محسن البريد الإلكتروني: mcdmissan@yahoo.com					
اهداف المقرر					
<p>1- to understand medical terms by breaking them into their component parts</p> <p>2- to construct medical terms from component parts to express given definitions.</p> <p>3- learn to pronounce, spell, and define medical terms used in this course</p> <p>4- When you have finished Quick Medical Terminology, you will have formed well over 500 medical terms using our word-building strategy combining prefixes, suffixes, and word roots to create complex medical terms.</p>				اهداف المادة الدراسية	
استراتيجيات التعلم والتعليم					
<p>شرح المادة الاساسية النظرية في المحاضرات التفاعلية بمشاركة الطلبة</p> <p>مشاركة الطلبة بتقديم المواضيع الاساسية على شكل سمنارات</p> <p>التعلم بشكل مجاميع صغيرة للطلبة</p>				الاستراتيجية	
بنية المقرر					
طريقة التقييم	طريقة التعلم	اسم الوحدة او الموضوع	مخرجات التعلم المطلوبة	الساعات	الأسبوع
امتحانات يومية امتحان نهاية الكورس الحضور المشاركات	محاضرات سينارات المجاميع الصغيرة	Medical terminology	تعليم بناء و تعريف و قراءة و اللفظ الصحيح للمصطلح	2	15

امتحان نصف الكورس			الطبي		
تقييم المقرر					
توزيع الدرجة من 100 على وفق المهام المكلف بها الطالب مثل التحضير اليومي والامتحانات اليومية والشفوية والشهرية والتحريرية والتقارير ... الخ					
مصادر التعلم والتدريس					
1-Quick Medical Terminology: A Self-Teaching Guide 4th Edition By Shirley Soltesz Steiner, R.N., M.S.			الكتب المقررة المطلوبة (المنهجية أن وجدت)		
2- Foundation Of Medicine & Medical Terminology By Prof ,Amran Sukrt Basrah university 3- Oxford dictionary			المراجع الرئيسة (المصادر)		
4- Illustrated medical dictionary 5-Comprehensive Medical Terminology 3 rd Edition Betty Davis john			الكتب والمراجع الساندة التي يوصى بها (المجلات العلمية، التقارير....)		
Use of Electronic Lab			المراجع الإلكترونية ، مواقع الانترنت		

Course Description Form

Course Name: .1	
Biology	
Course Code: .2	
Semester / Year: .3	
Trem	
Description Preparation Date: .4	
2024/2/18	
Available Attendance Forms: .5	
Presence	
Number of Credit Hours (Total) / Number of Units (Total) .6	
60 hours / 4 unit	
Course administrator's name (mention all, if more than one name) .7	
Name: Hiba Naeem Email: hiba.naeim@gmail.com	
Course Objectives .8	
General objective at the end of the academic year the student will be able to identifying the	

cell its structure describing bacteria and parasites and explaining the immune mechanism of the cell against.

Teaching and Learning Strategies .9

Theoretical study: theoretical lectures supported by modern means of presentation reinforced with the latest scientific sources and holding seminars in which students participate
make dialy quiz.

Course Structure .10

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2		Introduction to biology, the cells, prokaryotic and eukaryotic cells, animal and plant cell	Theoretical scientific lectures or interactive media presentations	(Oral questions during the lecture
2			The Structure of cells , types , shape and size	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture
3			The Structure of cells , types , shape and size	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture
4			Movement in and out of cells: diffusion , osmosis , active transport.	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture
5			Movement in and out of cells: diffusion , osmosis , active transport.	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture
6			Cell division: Amitosis, Mitosis and Meiosis	Theoretical scientific lectures +	(Oral questions during the

				scientific / or interactive media presentations	lecture
7			Nucleic acid: DNA and RNA, DNA Replication	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
8			Nucleic acid: DNA and RNA, DNA Replication	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
9			Protein biosynthesis	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
10			Human body tissues: Epithelial tissues	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
11			Human body tissues: Epithelial tissues	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
12			Muscular and Nervous tissues	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
13			Muscular and Nervous tissues	Theoretical scientific lectures + scientific / or	(Oral questions during the lecture)

				interactive media presentations	
14			Connective tissues: Bone and cartilage	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
15			Blood (R.B.C and WBC) and lymph	Theoretical scientific lectures + scientific / or interactive media presentations	(Oral questions during the lecture)
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Course Evaluation					
Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					

Course Description Form

1. Course Name:					
English Language					
2. Course Code:					
109EL					
3. Semester / Year:					
First Semester / First Stage					
4. Description Preparation Date:					
20/2/2024					
5. Available Attendance Forms:					
Weekly					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theory1 / 30					
7. Course administrator's name (mention all, if more than one name)					
Name: Asst. Lect. Yazen Basil Hassan Email: yazenbasilhassanl-rubaie9@uomanara.edu.iq					
8. Course Objectives					
Preparing the student at a high level of proficiency in the English language in the four skills, especially the skill of speaking and reading, which helps him in studying medicine and specialist in general.					
9. Teaching and Learning Strategies					
1. Lectures 2. Reports 3. Quizzes					
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	Two		Tenses	Theoretical lecture	Quiz
Second	Two		Pronunciation rules	Theoretical lecture	Quiz
Third-Twenty	Eight		Part of speech	Theoretical lecture	Quiz
Twenty one -	Eighteen		Speaking task	Theoretical lecture	Speaking task

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11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned, Mid- term and final exam, also reports .

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	1.English for Medicine and health Sciences. 2. Oxford books for learning English.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	