

**Republic of Iraq
Ministry of Higher Education and Scientific Research
Scientific Supervision and Evaluation Authority
Department of Quality Assurance and Academic Accreditation**



**Academic Program Description
Al-Ameed University
College of Health and Medical Technologies
Department of Cardiac Care Techniques**

Bachelor of Cardiac Care Techniques

Academic Year: 2026

Revised by

Scientific Committee in University of Al-Ameed – College of Health and Medical Technologies

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Karbala City Karbala – Najaf Highway Front of Pole (1238) P.O No:198 Karbala

[https://alameed.edu.iq/College-of-Medical Technologies](https://alameed.edu.iq/College-of-Medical-Technologies)

Mobile (07819165645), E-mail (info@alameed.edu.iq)

First: Program Information:

University: University of Al-Ameed

College: College of Health and Medical Technologies

Department: Department of Cardiac Care Techniques

Name of Academic Program: Bachelor of Cardiac Care Techniques

Name of Final Degree: Bachelor of Cardiac Care Techniques

Study System: Semester-based

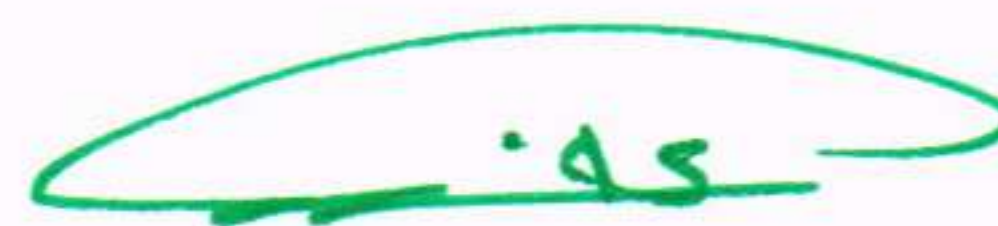
Date of Preparation of Description: 04/12/2025

Date of Filling the File: 04/12/2025



Signature:

Prof. Dr. Jawdat Nouri Al-Jashaami
Dean of the College
of Health and Medical Technologies



Signature:

Assist. Prof. Dr. Lamya Abd Alkarem Darwish
Vice President for Scientific Affairs

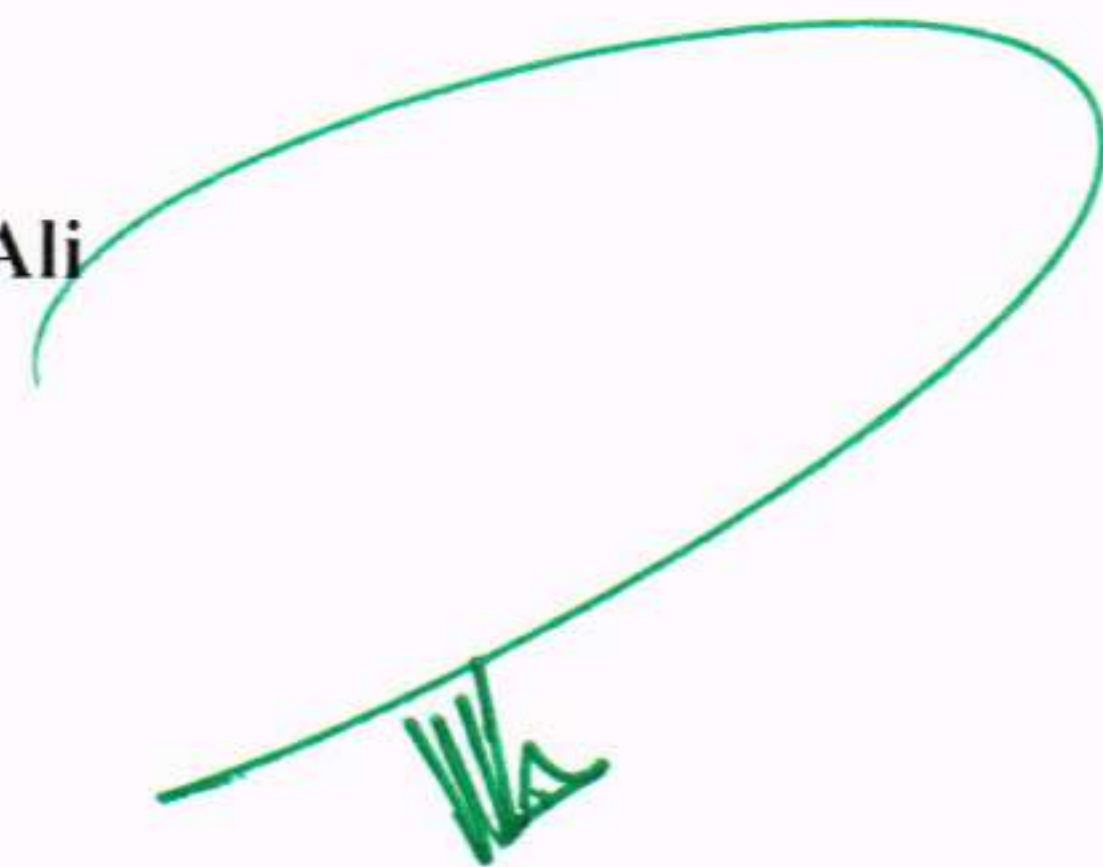
1

File Reviewed by:

Prof. Dr. Diaa K. Abd Ali

Date: 4/12/2025

Signature: 



Approval of the University President
Prof. Dr. Jawdat Nouri Al-Jashaami

1. Program Vision

To lead in preparing cardiac care technicians with advanced scientific, technical, communication, and professional competencies who provide safe, patient-centred technical care within cardiac and critical-care teams, while responding to scientific and technological developments, digital transformation, and community needs

2. Program Mission

To prepare competent graduates in Cardiac Care Techniques through a competency-based program integrating active learning, simulation, clinical practice, cardiovascular sciences, intensive care, equipment technologies, cardiac catheterization, radiological and cardiovascular imaging principles, scientific research, and digital technologies, including appropriate artificial intelligence applications, while embedding patient safety, sanitation and hygiene, ethics, effective communication, interprofessional teamwork, evidence-based practice, documentation, and lifelong learning

3. Program Objectives

1. Provide a strong foundation in anatomy, physiology, medical terminology, and medical sciences relevant to the heart and circulation.
2. Integrate anatomical, physiological, pathological, and cardiovascular knowledge with cardiac care, equipment, imaging, and clinical situations.
3. Develop the ability to perform initial assessment and continuous monitoring of cardiac patients and recognise early deterioration.
4. Develop competencies for safe operation, readiness checking, and basic troubleshooting of cardiac monitoring and critical-care equipment.
5. Develop skills in electrocardiography, cardiac monitoring, physiological measurements, and interpretation of relevant technical data within the professional role.
6. Prepare students to participate safely in the care of cardiac and intensive-care patients while maintaining sanitation, hygiene, infection prevention, and patient safety.
7. Provide knowledge and skills in cardiac catheterization and related procedures within authorised scope, including patient preparation and monitoring.
8. Promote early recognition of arrhythmias and cardiac deterioration and

- timely escalation to the appropriate healthcare professional.
9. Develop knowledge of internal medicine and cardiovascular conditions relevant to cardiac care.
 10. Establish principles of resuscitation and life support according to the level of training and approved protocols.
 11. Strengthen patient safety, sanitation and hygiene, infection prevention and control, equipment safety, medical documentation, report preparation, and risk management.
 12. Develop effective patient- and family-centred communication, including communication with angry or distressed patients, de-escalation, professional management of potentially aggressive behaviour, Breaking Bad News, and interprofessional teamwork.
 13. Develop critical thinking, problem-solving, and evidence-informed practice using reliable scientific and digital resources.
 14. Develop research, statistics, critical reading, and scientific communication skills.
 15. Encourage innovation and quality improvement in cardiac equipment, procedures, patient safety, and service delivery.
 16. Prepare graduates for responsible lifelong learning and adaptation to scientific, technological, digital, and artificial intelligence developments in healthcare.
 17. Incorporate artificial intelligence appropriately to support learning, evidence retrieval, communication planning, documentation, and professional decision-making within authorised scope, while protecting confidentiality and recognising its limitations.

4. Program Accreditation

Program accreditation procedures shall be completed in accordance with the requirements of the Ministry of Higher Education and Scientific Research, the Department of Quality Assurance and Academic Accreditation, and the National Council for Accreditation of Health and Medical Technology Colleges and Institutes Programs. The accreditation status shall be officially updated by the competent authority.

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5. External influences

Stakeholder	Participation Mechanism
Patients and Community	Health needs, beneficiary satisfaction, and prevention campaigns.
Healthcare Institutions	Employer surveys, meetings, and training evaluation.
Clinical Supervisors	Student performance assessment and identification of gaps.
Graduates	Graduate tracking and feedback.
Students	Surveys, focus groups, and participation in improvement.
Faculty	Course review and analysis of results.
Regulatory Bodies	Alignment with standards and scope of practice.

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Stage	Units	Weekly Hours	Theory	Practical	Level
First	34	43	24	19	Foundation
Second	37	47	26	21	Integration
Third	28	36	20	16	Application
Fourth	30	38	22	16	Mastery / Professional Readiness
Total	129	164	92	72	Four Years

6. Program's Structure

The revised study plan retains the four-stage structure while incorporating committee recommendations. The second stage now includes Physiology of the Cardiovascular System to strengthen the scientific foundation for cardiovascular disease and cardiac care. The fourth stage includes Radiology and Cardiovascular Imaging and places the Graduation Project in Semester 1 to allow students to complete the research and prepare for discussion at the beginning of Semester 2. Final units and hours remain subject to formal Curriculum Committee approval.

هيكليّة المنهج الدراسيّ للدراسات الأوليّة للطلبة المقبولين في العام الدراسيّ 2025/2026

Semester-1													Semester-2				
stage	Course	Subject	T	L	C	Credit Hours	Course NO.	Subject	T	C	L	Credit Hours					
First	CCT 111201	Anatomy and Histology	0	0	0	0	CCT 121211	Anatomy and HistologyII									
	CCT 111202	Physiology					CCT 121212	PhysiologyII									
	HMT 111201	General Chemistry					HMT 121202	Human Biology									
	UOA 113	Computer Science					HMT 121203	Medical Physics									
	UOA 111	Arabic Language					UOA 114	Human Rights and Democracy									
	CCT 111103	Professional Ethics					CCT 121104	Medical TerminologyII									
	Total						CCT 121213	Biochemistry									
							Total										
Semester-1													Semester-2				
stage	Course	Subject	T	L	C	Credit Hours	Course NO.	Subject	T	C	L	Credit Hours					
Second		Pharmacology						Cardiac Drugs									
		Fundamentals of Cardiology I						Fundamentals of Cardiology II									
		Fundamentals of Cardiac Care Equipment I						Fundamentals of Cardiac Care Equipment II									
		Baath Party Crimes						Computer Science									
		Medical Terminology II						Epidemiology									
		Physiology of Cardiovascular System (CVS)						Pathology and Hematology									
	Total						Total										

		Semester-1							Semester-2						
stage	Course	Subject	T	L	C	Credit Hou	Course NO.	Subject	T	C	L	Credit Hou			
Third		Cardiac Care Equipment Techniques I	0	0	0	0		Cardiac Care Equipment Techniques II							
		Fundamentals of Intensive Care I						Fundamentals of Intensive Care II							
		Fundamentals of Cardiac Catheterization						Advanced Cardiac Catheterization							
		Internal Medicine I						Internal Medicine II							
		Cardiology I						Cardiology II							
		Total					Total								
Fourth		Advanced Cardiac Care I	0	0	0	0		Advanced Cardiac Care II							
		Advanced Cardiac Equipment Techniques I						Advanced Cardiac Care Equipment Techniques II							
		Advanced Internal Medicine I						Advanced Internal Medicine II							
		Advanced Cardiology I						Advanced Cardiology II							
		Intensive Care Techniques						Clinical Cardiac Practice							
		Radiology and Cardiovascular Imaging													
		Total					Total								

8. Expected Learning Outcomes

Cognitive Aspect:

First

Learning Outcomes

Knowledge and Understanding

17. Explain the anatomy of the heart and circulation and their functions.
18. Explain the basic physiology of the cardiovascular system, including its relevance to common cardiovascular diseases and cardiac care.
19. Interpret cardiovascular pathophysiology, arrhythmias, heart failure, and common clinical conditions relevant to cardiac care.
20. Explain principles of cardiac assessment, monitoring, deterioration recognition, and escalation.
21. Explain principles of ECG, cardiac monitoring, cardiovascular imaging, radiological safety, and relevant technical data.
22. Explain principles of monitors, defibrillators, life-support devices, infusion pumps, and other cardiac-care technologies.
23. Explain the principles of cardiac catheterization and interventional procedures within the technical role.
24. Explain principles of resuscitation and life support within the level of training.

	25. Explain relevant cardiac medications and principles of medication safety. 26. Explain sanitation and hygiene, infection prevention and control, patient safety, risk management, medical documentation, and report preparation.
Practical Aspect:	
Second	Learning Outcomes
Professional and Practical Skills	27. Perform a structured initial assessment of a cardiac patient and identify danger signs. 28. Measure vital signs and apply continuous cardiac monitoring. 29. Prepare and operate monitoring and ECG equipment safely and verify equipment readiness. 30. Verify the readiness of emergency and critical-care equipment and apply basic safety checks. 31. Participate in CPR and life support within authorised scope. 32. Assist in preparing the patient for cardiac catheterization and maintain safety. 33. Monitor patients before and after procedures and report changes promptly. 34. Apply sanitation, hygiene, infection

	prevention and control precautions. 35. Document readings, procedures, events, and relevant clinical information accurately and prepare professional reports within scope. 36. Provide structured handover using SBAR or another approved format. 37. Communicate respectfully and effectively with patients and families, including distressed or angry patients, and use basic de-escalation strategies. 38. Demonstrate appropriate communication when discussing sensitive information and participate in Breaking Bad News within the professional role and under supervision. 39. Use checklists, protocols, reliable digital resources, and appropriate AI-supported tools while protecting confidentiality. 40. Recognise when a problem exceeds professional competence and seek assistance or escalate appropriately. 41. Participate in research or quality-improvement activities.
Value aspect	
Third	Learning Outcomes

Professional Values and Ethics	42. Place patient safety, dignity, and privacy at the centre of practice. 43. Respect patients and their families without discrimination. 44. Maintain confidentiality and ethical standards. 45. Recognise limits of competence and authority and seek assistance. 46. Accept feedback and use it for improvement. 47. Commit to self-directed learning and professional development. 48. Demonstrate responsibility, accuracy, and discipline. 49. Work as a team and respect health professions. 50. Respond professionally to pressure and critical situations. 51. Contribute to a culture of safety and quality. 52. Adapt to technological development. 53. Serve the community and promote cardiovascular health.
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9. Teaching and Learning Strategies

Area	Strategy	Examples
Knowledge	Interactive Lecture	Physiology, diseases, and equipment.
Analysis	PBL + CBD	ACS, arrhythmia, heart failure, shock.
Skills	Skills Lab + Simulation	ECG, monitoring, defibrillator, CPR.
Communication	Role Play	Patients, families, angry or distressed patients, de-escalation, Breaking Bad News, and handover.
Peer Learning	Peer-Assisted Learning	Teaching a skill, ECG, or checklist.
Co-Teaching	Co-Teaching	Joint multidisciplinary sessions.
Interprofessional	Interdisciplinary Projects	Patient safety and cardiac arrest.
Self-Directed Learning	Flipped/Blended	Pre-class content and in-class application.
Reflection	Portfolio + Reflection	Performance analysis and improvement plan.

10. Evaluation Methods

1. Short Exams (Quiz)
2. Homework
3. Midterm and Final Exams for Theoretical and Practical Subjects
4. Small Projects within the Lesson
5. Interaction within the Lecture
6. Reports
7. Practical Evaluation

11. Faculty Staff

Scientific Title	Specialty		Requirements and Competencies	Number	
	Nursing	Others		Full time	Part time
Professor	4	0	Post-graduate degree and methods of Learning Certificate	2	0
Assist. Prof.	3	2		1	0
Instructor	3	2		2	0
Instructor Assistance	1	3		1	0

12. Professional Development

Orientation of new faculty members

The certificate and academic title are necessary requirements for faculty members as well as developing skills through their participation in the activities of the program to develop the capabilities and abilities of teachers. The performance of the teacher will be subject to an evaluation at the end of each academic year (performance evaluation) in addition to the necessity of obtaining teaching qualification certificates.

Professional development of faculty members

The program to develop the capabilities and abilities of teachers is prepared annually and feedback is taken from students about teaching and learning methods and the results are discussed after conducting statistical analysis.

13. Admission Criteria

The student is accepted into the program according to the instructions of the Ministry of Higher Education and Scientific Research, which are updated annually.

14. The most important sources of information about the program

1. The official website of the college (College of Health and Medical Technologies)
(<https://alameed.edu.iq> / كلية التقنيات الطبية و الصحية)
2. The College of Of Health and Medical Technologies.

15. Program's Up to dating Plan

The program undergoes periodic development by curriculum development committees established by the Committee of Deans of Iraqi Colleges of Medical and Health Technologies.

16. Curriculum Skills Plan

Curriculum Details										
Required Learning Outcomes										
Value Goals			Practical Goals				Cognitive Goals			Essential or Elective
G3 L.O.3	G3 L.O.2	G3 L.O.1	G2 L.O.4	G2 L.O.3	G2 L.O.2	G2 L.O.1	G1 L.O.3	G1 L.O.2	G1 L.O.1	
×	×	×	×	×	×	×	×	×	×	Essential
×	×	×	×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
×	×	×	×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
			×	×	×	×	×	×	×	Essential
×	×	×	×	×	×	×	×	×	×	Essential

Name of Course	Code of Course	Level
Anatomy and Histology I	CCT 111201	First stage
Physiology I	CCT 111202	
General Chemistry	HMT 111201	
Computer Science I	UOA 113	
Arabic Language I	UOA 111	
Professional Ethics	CCT 111103	
Anatomy and Histology II	CCT 121211	
Physiology II	CCT 121212	
Human Biology	HMT 121202	
Biochemistry	CCT 121213	
Medical Physics	HMT 121203	
Human Rights and Democracy	UOA 114	
Medical Terminology I	CCT 121104	

Second: Course Description

1. Course Name	
Anatomy and Histology	
2. Course Code	
CLT 111201	
3. Semester/Year	
first Stage/First Semester	
4. Date of Preparation of this Description	
2026/8/23	
5. Available Attendance Forms	
Student attendance in classrooms	
6. Total Number of Hours and Units	
4 Theoretical + 4 Clinical (8 Hours), Number of Credits (8)	
7. Name of Course Supervisor	
Name	E-Mail
Dr. Ahmed Ali	ahmed.ak@alameed.edu.iq
8. Course Objectives	
Objective: To provide students with a comprehensive understanding of human anatomical structures and their functional relationships, preparing them for clinical and laboratory applications.	
9. Teaching and learning strategies	
• Interactive lectures • Laboratory demonstrations with anatomical models • Group discussions and tutorials • Student presentations • Online resources and blended learning	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Introduction to Anatomy – Terminology & Directions	students will identify anatomical terminology and directional planes.	4T + 12 C	1
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	four basic tissues (structure, site, and function).	, four basic tissues (structure, site, and function).	4T + 12 C	2
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Digestive System – Structure & Functions	students will describe the structure and function of the digestive system.	4T + 12 C	3
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Digestive System – Structure & Functions	students will explain the anatomy of the cardiovascular system	4T + 12 C	4
Mid-term exam. No 1					
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Cardiovascular System – Heart & Vessels	Understand the basic concepts of gastro-intestinal diseases and how to care for and educate patients.	4T + 12 C	5
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Respiratory System – Lungs & Airway	Understand the basic concepts of liver and biliary diseases and how	4T + 12 C	6

Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical		to care for and educate patients.		
Daily exams, Questions within the lecture, & Practical evaluation.	- Theoretical and practical	Nervous System – Brain & Spinal Cord	students will explain the anatomy of the cardiovascular system	4T + 12 C	7
Daily exams, Questions within the lecture, & Practical evaluation.		Musculoskeletal System – Bones & Muscles	students will analyze the central and peripheral nervous systems	4T + 12 C	8
Mid-term exam. No 2					
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Lymphatic system, structure & functions	students will describe the structure and function of the Lymphatic system	4T + 12 C	10
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Endocrine System, structure and function	students will describe the structure and function of the Endocrine System	4T + 12 C	12
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Integumentary System, structure and function.	students will describe the structure and function of the Integumentary System	4T + 12 C	13
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Reproductive system, structure and function.	students will describe the structure and function of the Reproductive system	4T + 12 C	14
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical and practical	Urinary system, structure and function.	students will describe the structure and function of the Urinary system	4T + 12 C	15

Daily exams, Questions within the lecture, &Practical evaluation.	, students will integrate anatomical knowledge with physiological functions	Clinical Applications of Anatomy	students will integrate anatomical knowledge with physiological functions..	
Daily exams, Questions within the lecture, &Practical evaluation.	students will apply anatomical knowledge to clinical procedures such as injection sites	Clinical Applications of Anatomy	students will apply anatomical knowledge to clinical procedures such as injection sites	
11. Course Evaluation				
Evaluation				
Formative		Summative		
Scores	Evaluation methods	Scores	Evaluation methods	Score Standards - Excellent (90-100) - Very Good (80-less than 90) - Good (70-less than 80) - Fair (60-less than 70) - Acceptable (50-less than 60) - Fail (less than 50))%100(total
%1	Daily Exams	%10	First Mid-term theoretical exam	
%1	Seminars	%10	Second Mid-term theoretical exam	
%1	Reports	%15	Mid-term practical evaluation	
%1	Participation	%20	Final practical exam	
%1	Volunteer Work	%40	Final theoretical exam	
%5		%95		
12. Learning Resources				
- Tortora, G.J. & Derrickson, B. Principles of Anatomy and Physiology. 15th Edition. Wiley, 2017				
- Greys anatomy				
- more, K.L. Clinically Oriented Anatomy. 8th Edition. Wolters Kluwer, 2018.				
- https://www.anatomy.tv/				

1. Course Name	
Physiology	
2. Course Code	
EMT1112002	
3. Semester/Year	
First Stage/First Semester	
4. Date of Preparation of this Description	
2025/9/28	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
4 hours (2 hrs. Theoretical and 2 hrs. Practical, Lab./week) / 3 Units	
7. Name of Course Supervisor	
Name	E-Mail
Assist. Prof. Dr. Hussein A. Al-Ghanimi Assist. Lecturer Bashaaer Ali Saqab	hughanimi@alameed.edu.iq bashaaer.a@uokerbala.edu.iq
8. Course Objectives	
1. Understand the basic principles of human physiology and homeostasis. 2. Recognize the structures and functions of cells, tissues, organs, and major body systems. 3. Explain normal physiological mechanisms and the relationships between body structure and function. 4. Apply physiological knowledge to basic clinical and practical situations 5. Perform and interpret basic physiological and diagnostic laboratory tests. 6. Develop appropriate laboratory, communication, teamwork, and problem-solving skills 7. Demonstrate ethical, professional, safe, and responsible practices during theoretical and practical	
9. Teaching and learning strategies	
Interactive and student-centered lectures. • Problem-based and case-based learning • Demonstration and supervised laboratory practice. • Hands-on physiological and diagnostic skills training. • Small-group and team-based learning. • Microscopy and laboratory-based learning. • Physiological data interpretation and problem solving. • Formative assessment (Quizzes, Assignments, Reports, ...etc) with continuous feedback • Self-directed and reflective learning. • Integration of ethical principles into all practical activities.	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture	- Lectures. - Scenarios and seminars.	Introduction of Human physiology	Learn about the general terms in pharmacology and what is the different between them.	4	1
Daily exams, Questions within the lecture,.	- Lectures. - Scenarios and seminars.	Cell Structure and Function	Learn about the basic concepts of drug kinetic and how body deal with the drugs	4	2
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars. - Clinical training	Fluids and Electrolytes	Learn about the basic concepts of drug kinetic and how drug affects the body	4	3
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars	Cardiovascular System part 1	Learn about the basic concepts of ANS and cholinergic drugs.	4	4
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars	Cardiovascular System part 2	Learn about the basic concepts of ANS and adrenergic drugs.	4	5
Mid-term exam. No 1					
Daily exams, Questions within the lecture	- Lectures. - Scenarios and seminars.	Cardiovascular System part 3	Understand the basic concepts of CVS physiology and drugs affect this system.	4	7
Daily exams, Questions within the lecture,.	- Lectures. - Scenarios and seminars.	Cardiovascular System part 4	Understand the basic concepts of CVS physiology and drugs affect this system.	4	8
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Cardiovascular System part 5	Understand the basic concepts anemia and which is the best therapy	4	9

Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars	Cardiovascular System part 6	Understand the basic concepts of pediatrics and how to calculate the pediatric drug doses.	4	10
Mid-term exam. No 2					
Daily exams, Questions within the lecture	- Lectures. - Scenarios and seminars.	Cardiovascular System part 7	Understand the basic concepts of geriatrics and how to deal with them.	4	12
Daily exams, Questions within the lecture,.	- Lectures. - Scenarios and seminars.	Respiratory system Part 1	Understand the basic concepts of gynecology disease and treatments.	4	13
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Respiratory system Part 2	Understand the basic concepts of gynecology disease and treatments.	4	14
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Respiratory system Part 3	Understand the basic concepts of gynecology disease and treatments.	4	15
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Respiratory system Part 4	Understand the basic concepts of gynecology disease and treatments.	4	16
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Digestive System part 1	Understand the basic concepts of gynecology disease and treatments.	4	17
11. Course Evaluation					
Evaluation					
Formative			Summative		
Scores	Evaluation methods	Scores	Evaluation methods	Score Standards - Excellent (90-100) - Very Good (80-less than 90) - Good (70-less than 80) - Fair (60-less than 70)	
%2	Daily Exams	%10	First Mid-term theoretical exam		
%2	Seminars	%10	Second Mid-term theoretical exam		
%2	Reports				

%2	Participation	%70	Final theoretical exam	- Acceptable (50-less than 60)
%2	Volunteer Work			- Fail (less than 50)
	%10		%90	)%100(total

12. Learning Resources

- Marieb, Elaine N. and Smith, Lori A. Human Anatomy & Physiology Laboratory Manual. 12th Edition. Pearson Education Limited, United Kingdom, 2023.
- Widmaier, E. P., Raff, H., and Stang, K. T. Vander's Human Physiology: The Mechanisms of Human Body. 15th Edition, Mac Graw Hill Education, USA, 2019.
- • Chandrasekar, M. and Mishra, N. Practical Physiology Book. 2nd Edition, Jaypee Brothers Medical Publishers (P) Ltd, India, 2014.

https://www.pearson.com/en-gb/subject-catalog/p/human-anatomy--physiology-laboratory-manual-main-version-global-edition/P200000007224/9781292742595?srsId=AfmBOoquLM9X1d_wkGC8HGs9cWfvAzLhijSov8YGZbPLBBubSR4NUdhl

<https://www.mheducation.co.uk/vander-s-human-physiology-ise-9781265131814-emea-group>

<https://www.jaypeedigital.com/book/9789350907412>

1. Course Name	
General Chemistry	
2. Course Code	
HMT 111201	
3. Semester/Year	
first year/ First semester	
4. Date of Preparation of this Description	
31/8/2026	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
2 Theoretical + 2 Clinical (4 Hours Per Week), Number of Credits (3)	
7. Name of Course Supervisor	
Name	E-Mail
Zainab Ali Zainab Adil	zainab.ali.hadi@alameed.edu.iq zainabadil792@gmail.com
8. Course Objectives	
Equipping students with fundamental concepts of biochemistry, including the structural characteristics of biomolecules (carbohydrates, proteins, lipids, enzymes, vitamins, and nucleic acids), their chemical reaction mechanisms, and qualitative identification assays. • Developing practical laboratory proficiency in reagent preparation, executing qualitative distinction and precipitation tests with high precision, and analyzing unknown biochemical samples (Unknown Identification). • Establishing rigorous laboratory safety practices for handling hazardous reagents and concentrated acids, while enhancing scientific analytical thinking and collaborative teamwork skills within the chemical laboratory environment.	
9. Teaching and learning strategies	
1. Interactive Lectures 2. Problem-Based Learning (PBL) 3. Case-Based Learning 4. Small-Group Discussion 5. Practical Laboratory Sessions 6. Student Presentations and Seminars 7. Formative Assessment and Active Recall	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Fundamentals of Analytical Chemistry I (Theory lecture) Introduction of Basic Lab Equipment and General Laboratory Safety Rules. (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment	2T + 2 L	1
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Methods of Expression of Concentration I (Theory lecture) Preparation and standardization of 0.1M Hydrochloric Acid HCl solution. (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment of the skin, hair and nails	2T + 2 L	2
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Methods of Expression of Concentration II (Theory lecture) Preparation and Standardization of Approximately 0.1N Sodium Hydroxide NaOH (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment of the head and neck	2T + 2 L	3
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Titration and its Types (Theory lecture) Estimation of Sodium Hydroxide and Sodium Carbonate in a Mixture (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment of the respiratory system	2T + 2 L	4
Mid-term exam. No 1					
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	- Acid-Base Titration I (Theory lecture) Quantitative Analysis of Oxidation-Reduction (Redox) Reactions (practice lecture)	Understand the basic concepts, steps and how to apply a cardiovascular health assessment	2T + 2 L	6

Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	- Acid-Base Titration II Theory lecture) Estimation of Ferrous Iron Using Potassium Dichromate (practice lecture)	Understand the basic concepts, steps and how to apply a cardiovascular health assessment	2T + 2 L	7
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Midterm Theory Exam	Understand the basic concepts, steps and how to apply a peripheral health assessment.	2T + 2 L	8
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Redox Titration (Theory lecture) Precipitation Titration (Determination of Chloride Ions by Mohr's Method). (practice lecture	Understand the basic concepts, steps and how to apply an abdominal health assessment	2T + 2 L	9
Mid-term exam. No 2					
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Precipitate Titration I (Theory lecture) Determination of Chloride in Drinking Water by Mohr's Method (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment of the nervous system	2T + 2 L	11
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Precipitate Titration II (Theory lecture) Determination of Total Hardness of Water Using EDTA (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment of the nervous system	2T + 2 L	12
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Complexometric Titration (Theory lecture) Spectrophotometric Determination of Potassium Permanganate Concentration Using the Beer-Lambert Law. (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment of the locomotor system	2T + 2 L	13

Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Spectrophotometric Analysis & Beer-Lambert Law I (Theory lecture) Determination of the Maximum Wavelength (λ_{max}) of Potassium Permanganate (KMnO_4) Solution (practice lecture)	Learn the basic concepts, steps and how to apply a health assessment of the reproductive system	2T + 2 L	14
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Spectrophotometric Analysis & Beer-Lambert Law II (Theory lecture) Preparation and pH Measurement of Buffer Solutions (practice lecture)	Learn about laboratory tests, their normal rates and the reasons for their increase or decrease.	2T + 2 L	15
		Comprehensive Revision (Theory lecture) Determination of pH by Acid-Base Indicators (practice lecture)			
15- Final Theory Exam					

11. Course Evaluation

Evaluation				Score Standards
Formative		Summative		
Scores	Evaluation methods	Scores	Evaluation methods	- Excellent (90-100_
%1	Daily Exams	%10	First Mid-term theoretical exam	- Very Good (80-less than 90)
%1	Seminars	%10	Second Mid-term theoretical exam	- Good (70-less than 80)
%1	Reports	%15	Mid-term practical evaluation	- Fair (60-less than 70)
%1	Participation	%20	Final practical exam	- Acceptable (50-less than 60)
%1	Volunteer Work	%40	Final theoretical exam	- Fail (less than 50)
%5		%95		)%100 (total

12. Learning Resources

Skoog, D.A. Fundamentals of Analytical Chemistry. 9th Ed. Cengage Learning, 2014

Skoog, D.A. Fundamentals of Analytical Chemistry. 9th Ed. Cengage Learning,

Christian, G.D. Analytical Chemistry. 7th Ed. Wiley, 2013

<http://www.chemguide.co.uk/>

1. Course Name	
Computer I	
2. Course Code	
UOA113	
3. Semester/Year	
First Stage/First Semester	
4. Date of Preparation of this Description	
23 / 08 / 2026	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
60/45	
7. Name of Course Supervisor	
Name	E-Mail
Dr. Wisam Kareem Meteab	wisammeteab@alameed.edu.iq
8. Course Objectives	
• Focuses on fundamental computing abilities for first-year students. • Emphasizes effective and secure technology use in educational and medical settings. • Covers computer hardware and software. • Includes topics on operating systems and file management. • Provides instruction on Microsoft Office applications. • Discusses internet and networking concepts. • Introduces fundamenta	
9. Teaching and learning strategies	
Participatory lectures, practical explanations, laboratory practices, individual and team exercises	

10. Course Structure				
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours
Daily exams, Questions within the lecture, & Laboratory evaluation.	Lecture + Practical Lab + Exercises and Application.	Computer basics, operating system, file management, Word, Excel, PowerPoint, Internet, Computer Troubleshooting	- Understanding basic computer concepts, file operating systems, file organization, composing documents, making tables and presentations, resolving software and hardware difficulties, and electronic communication.	60
				15

11. Course Evaluation				
Evaluation			Score Standards	
Formative		Summative		- Excellent (90-100 _ - Very Good (80-less than 90) - Good (70-less than 80) - Fair (60-less than 70) - Acceptable (50-less than 60) - Fail (less than 50))%100(total
Scores	Evaluation methods	Scores	Evaluation methods	
%1	Daily Exams	%10	First Mid-term theoretical exam	
%1	Seminars	%10	Second Mid-term theoretical exam	
%1	Reports	%15	Mid-term practical evaluation	
%1	Participation	%20	Final practical exam	
%1	Volunteer Work	%40	Final theoretical exam	
%5		%95		
12. Learning Resources				
1. Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020)				
2. Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete", 1 6th Edition (2020)				

1. Course Name	
Medical TerminologyI	
2. Course Code	
CLT 111103	
3. Semester/Year	
Second/2026	
4. Date of Preparation of this Description	
24/8/2026	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
15 hours/15 Units	
7. Name of Course Supervisor	
Name	E-Mail
Prof. Dr. Abdul-Hameed Khalid Khadhair	abdul-hameed@alameed.edu.iq
8. Course Objectives	
• Teaching students the basic component of the medical term. • Learning the Importance of the medical term in fields of medicines and health sciences. • At the end of this semester the student should understand the importance of the medical terms in the practical health sciences..	
9. Teaching and learning strategies	
- Theoretical lecture using power points presentation - Using video and picture description of the anatomical organs and medical terms. - Students participation and discussion in the lecture understanding. - Extracting the conclusions after each discussion.	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Required Learning Outcomes	Subject Title	Hours	Week
Daily exams & Practical evaluation.	Practical training.	Introduction on the medical term, Latin and English names Medical Terminology	Medical Terminology	2 L	1
Daily exams & Practical evaluation.	Practical training.	Medical term components: importance and applications of medical terms	Medical Terminology	2 L	2
Daily exams & Practical evaluation.	Practical training.	Medical term components: word root	Medical Terminology	2 L	3
Daily exams & Practical evaluation.	Practical training.	Medical term components: Prefixes	Medical Terminology	2 L	4
Mid-term exam. No 1					
Daily exams & Practical evaluation.	Practical training.	Medical term components: Combining form	Medical Terminology	2 L	6

				• Medical Terminology		
Daily exams & Practical evaluation.	Practical training.	Medical term components: Suffixes		Medical Terminology	2 L	7
Daily exams & Practical evaluation.	Practical training.	Medical term components: exceptional terms		• Medical Terminology	2 L	8
Daily exams & Practical evaluation.	Practical training.	Biological System: Muscular- Skeletal and medical terms		• Medical Terminology	2 L	9
Mid-term exam. No 2						
Daily exams & Practical evaluation.	Practical training.	Types of tissues and muscles and medical terms		• Medical Terminology	2 L	11

Daily exams & Practical evaluation.	Practical training.	Trauma during accidents and medical terms	Medical Terminology	2 L	12
Daily exams & Practical evaluation.	Practical training.	Cardio-vascular system and medical terms	Medical Terminology	2 L	13
Daily exams & Practical evaluation.	Practical training.	Vessels and arteries and medical terms	Medical Terminology	2 L	14
Daily exams & Practical evaluation.	Practical training.	Commonly medical terms used in health sciences	Medical Terminology	2 L	15

11. Course Evaluation					
Formative			Evaluation		Score Standards
Scores	Evaluation methods	Scores	Summative		
%5	Daily Exams	%15	Evaluation methods		- Excellent (90-100 _
		%15	First Mid-term theoretical exam	- Very Good (80-less than 90)	
%5	Participation	%60	Second Mid-term theoretical exam		- Good (70-less than 80)
			Final practical exam		- Fair (60-less than 70)
%10		%90		- Acceptable (50-less than 60)	
				- Fail (less than 50)	
)%100(total					
12. Learning Resources					
David Ellen, Medical Terminology: A Short course, 8th Edition by 2018.					
Linda Stanhop, Introduction to Medical Terminology, 1st Edition 2016					
Edward CC: A Short Course in Medical Terminology 1st Edition.					
Heart health Glossary and Bone Health					
1. https://www.nih.gov/health/Heart Health Glossary National Institute Of Ageing					
2. https://ncbi.nlm.nih.gov/bone Bone Medical Terminology					

1. Course Name	
Professional Ethics	
2. Course Code	
EMT1111003	
3. Semester/Year	
First Semester / First Year	
4. Date of Preparation of this Description	
23/8/2025	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
2 Credit Hours / 2 Units	
7. Name of Course Supervisor	
Name	E-Mail
Dr. Ali Hamad Abd Kelkawi	Ali.Kelkawi@alameed.edu.iq
8. Course Objectives	
1. Students will explore the historical development of ethical codes in medicine 2. Learn about key principles and values in the code of professional ethics 3. Understand the importance of confidentiality, privacy, informed consent, and patient rights in healthcare settings 4. Analyze conflicts of interest 5. Develop skills in ethical decision-making 6. Explore cultural competence and diversity in healthcare practice 7. Address ethical issues in research and innovation 8. Emphasize the significance of continuing education and professional development 9. Discuss technology ethics in healthcare Co	
9. Teaching and learning strategies	
- 1. Interactive Lectures - 2. Problem-Based Learning (PBL) - 3. Case-Based Learning - 4. Small-Group Discussion - 5. Student Presentations and Seminars - 6. Formative Assessment and Active Recall - 7. Blended and Digital Learning	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture,	- theoretical	Electromagnetic Radiation in Vacuum and Matter • Introduction to Professional Ethics in Applied Medical Science (2 hrs) 1. Definition of professional ethics 2. Importance of ethical standards in the field of applied medical science • Historical Development of Ethical Codes in Medicine (2 hrs) 3. Evolution of ethical guidelines in healthcare professions 4. Key milestones in the development of codes of ethics for medical practitioners • Principles and Values in the Code of Professional Ethics (2 hrs) 5. Core principles such as beneficence, non maleficence, autonomy, and justice 6. Ethical values that guide decision	Knowledge, understanding and application	2T	1
Daily exams, Questions within the lecture,	- theoretical	7. Definition and significance of informed consent in medical practice 8. Ethical considerations regarding patient autonomy and decision-making capacity Challenges and best practices for obtaining valid informed consent from patients 5. Confidentiality and Privacy in Healthcare (2 hrs) • Importance of maintaining patient confidentiality and privacy • Legal and ethical considerations related to patient information release • Strategies for protection patient data in compliance	Knowledge, understanding and application	2T	2

			with ethical standards 6. Professional Boundaries and Relationships with Patients (2 hrs) • Understanding boundaries between healthcare professionals and patients • Guidelines for establishing healthy professional relationships with patients 7. Conflict of Interest (2 hrs) • Definition and types of conflicts of interest in medical settings • Ethical implications of conflicts of interest on patient care 12 8. Ethical Decision-Making in Applied Medical Science (2 hrs) • Steps involved in ethical decision making process • Case studies illustrating ethical dilemmas faced by professionals in applied medical science 9. Cultural Competence and Diversity in Healthcare Practice (2 hrs) • Importance of cultural competence in providing quality healthcare services • Strategies for promoting diversity and inclusivity in healthcare settings 10. Ethical Issues in Research and Innovation (2 hrs) • Ethical considerations when conducting research or implementing innovative practices • Guidelines for ensuring ethical conduct throughout the research process 11. Continuing Education and Professional Development (2 hrs) • Ethical considerations when conducting research or implementing innovative practices • Guidelines for ensuring ethical conduct throughout the		
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		research process 12. Technology Ethics in Healthcare (2 hrs) • Ethical implications of using technology in medical practice 13 • Balancing technological advancements with ethical responsibilities towards patients 13. Peer Review and Self Assessment (2 hrs) • Role of peer review processes in maintaining ethical standards • Benefits of self assessment for professionals to reflect on their ethical practices 14. Future Trends and Challenges in Professional Ethics (2 hrs) • Emerging ethical issues facing professionals in applied medical science • Strategies for addressing future challenges while upholding ethical standards		
Mid-term exam. No 1				5
				10

11. Course Evaluation

Quizzes 10%
Case-Based Assignments 10%
Student Presentation / Seminar 5%
Reflective Report 5%
Midterm Examination 20%
Ethical Case Analysis Project 10%
Final Examination 40%
Total 100%

12. Learning Resources

Work Ethics by Dr. Mahdi Saleh Mahdi Al-Samarrai (addresses fundamental concepts of work ethics and the handling of administrative and financial violations). *Public Service Ethics and Governance* by Dr. Kifaya Mohammed (links job ethics, governance, and civil service reform). *Ethics and the Science of Moral Habits* by Lévy-Bruhl, translated by Mahmoud Qasim (a philosophical and historical reference on the science of ethics).

1. Course Name	
Biochemistry	
2. Course Code	
CCT 121213	
3. Semester/Year	
first year/ second semester	
4. Date of Preparation of this Description	
31/8/2026	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
4 Credit Hours) 2 theoretical , 2 practical)/ 3 Units	
7. Name of Course Supervisor	
Name	E-Mail
zainab Ali zainab Adil	zainab.ali.hadi@alameed.edu.iq zainabadil792@gmail.com
8. Course Objectives	
Classify major biomolecules, including carbohydrates, lipids, amino acids, and proteins, based on their chemical structures. • Explain the essential biological functions and physiological roles of macromolecules in the human body. • Describe enzyme characteristics, kinetics, factors affecting catalysis, and their clinical diagnostic significance. • Differentiate between fat-soluble and water soluble vitamins, highlighting their biochemical roles and deficiency disorders. 10 • Conduct standard biochemical laboratory tests safely to identify unknown carbohydrates, lipids, and proteins. • Correlate altered biochemical pathways and biomolecule concentration levels with clinical symptoms and emergency cases.	
9. Teaching and learning strategies	
1. Interactive Lectures 2. Problem-Based Learning (PBL) 3. Case-Based Learning 4. Small-Group Discussion 5. Practical Laboratory Sessions 6. Student Presentations and Seminars 7. Formative Assessment and Active Recall	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture, & Practical evaluation.	- Lectures. - Scenarios and seminars. - Clinical training.	Theory lecture 1-Introduction to Biochemistry And Carbohydrates I(Theory lecture) General Carbohydrate Tests(practice lecture)	Theoretical practical	4T + 12 C	2
Daily exams, Questions within the lecture, & Practical evaluation.	- Lectures. - Scenarios and seminars - Clinical training.	2- Structure and biological importance of disaccharides and polysaccharides(Theory lecture) Carbohydrate Differentiation Tests(practice lecture)	Theoretical practical	4T + 12 C	3
Daily exams, Questions within the lecture, & Practical evaluation.	- Lectures. - Scenarios and seminars - Clinical training.	3- Classification of amino acids based on side-chain properties(Theory lecture) Carbohydrate Differentiation Tests(practice lecture)	Theoretical practical	4T + 12 C	4
Daily exams, Questions within the lecture, & Practical evaluation.	- Lectures. - Scenarios and seminars - Clinical training.	4- Structural organization levels (primary to quaternary) of proteins(Theory lecture) General Amino Acid and Protein Tests(practice lecture)	Theoretical practical	4T + 12 C	6
Daily exams, Questions within the lecture, & Practical evaluation.	- Lectures. - Scenarios and seminars - Clinical training.	5- classification of proteins(Theory lecture) Specific Amino Acid and Protein Tests(practice lecture) 6- Midterm Theory Exam 7- Vitamins I(Theory lecture) Solubility of vitamins(practice lecture) 8- Biochemical roles of Vitamin B-complex and Vitamin C as coenzymes(Theory lecture)	Theoretical practical	4T + 12 C	7

		Performing volumetric titration accurately to estimate Vitamin C (Ascorbic Acid) concentration(practice lecture) 9- Lipids(Theory lecture) General Lipid Tests(practice lecture) 10- Enzymes I(Theory lecture) Determine enzyme activity(practice lecture) 11- Factors influencing enzyme activity and their medical diagnostic utility. (Theory lecture) effect of temperature and PH on enzyme(practice lecture) 12- Nucleic Acids I(Theory lecture) Type of nucleic acid(practice lecture) 13- Classification of RNA molecules and clinical cases(Theory lecture) 12 type of nucleic acid(practice lecture) 14- Reviewing core topics and discussing sample exam questions(Theory lecture) Oral discussion (practice lecture) 15- Final Theory Exam		
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11. Course Evaluation				
Evaluation			Score Standards	
Formative		Summative		
Scores	Evaluation methods	Scores	Evaluation methods	
%1	Daily Exams	%10	First Mid-term theoretical exam	- Excellent (90-100 _
%1	Seminars	%10	Second Mid-term theoretical exam	- Very Good (80-less than 90)
%1	Reports	%15	Mid-term practical evaluation	- Good (70-less than 80)
				- Fair (60-less than 70)

%1	Participation	%20	Final practical exam	- Acceptable (50-less than 60)
%1	Volunteer Work	%40	Final theoretical exam	- Fail (less than 50)
%5		%95		)%100(total

12. Learning Resources

Robert T. Morrison and Robert N. Boyd. BiochemistryMcCurry. 5th ed.; Thomson Learning
 Lehninger Principles of Biochemistry. Textbook of Polymer Science
 . Principles of Polymerization.
 Materials Science and Engineering: An Introduction. Biochemistry: Theory and Practice.
 Principles of Instrumental Analysis.

1. Course Name	
Human Biology	
2. Course Code	
HMT 121202	
3. Semester/Year	
Secound Semester / First Year	
4. Date of Preparation of this Description	
2026/8/25	
5. Available Attendance Forms	
Face-to-face attendance: theoretical lectures and practical laboratory sessions, supported by blended/online learning activities through the University Learning Management System (LMS), where applicable.	
6. Total Number of Hours and Units	
3 Credit Hours / 3 Units	
7. Name of Course Supervisor	
Name	E-Mail
Dr. Ali Hamad Abd Kelkawi	Ali.Kelkawi@alameed.edu.iq
8. Course Objectives	
1. Understand the Fundamental Principles of Biology 2. Describe Cell Structure and Function 3. Explain the Structure and Function of the Cytoplasmic Membrane 4. Recognize the Role of Biological Molecules and Metabolism 5. To provide students with a foundational understanding of the structure, types, and biological roles of nucleic acids (DNA and RNA) within cells. 6. Analyze Cell Division Processes: Mitosis and Meiosis 7. Explore Microorganisms: Bacteria, Viruses, and Fungi 8. Identify and Classify Animal Tissues 9. Apply Proper Laboratory Techniques and Safety Protocols Perform Core	
9. Teaching and learning strategies	
1. Interactive Lectures 2. Problem-Based Learning (PBL) 3. Case-Based Learning 4. Small-Group Discussion 5. Practical Laboratory Sessions 6. Microscopy and Histological Observation 7. Anatomical Models and Visual Learning 8. Student Presentations and Seminars 9. Formative Assessment and Active Recall 10. Blended and Digital Learning	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Introduction of Biology	Definition and branches of biology * Characteristics of living organisms * Levels of biological organization * Branches of biology	2 T	1
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Chemistry of life and the nature of biological molecules	Elements essential to life Macromolecules: carbohydrates, lipids, proteins, nucleic acids * Structure and function of each macromolecule	2 T	2
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Cell Structure	Structure: phospholipid bilayer, proteins, cholesterol * Fluid mosaic model * Functions of lipid and proteins in cell membrane * Functions of cell membrane	2 T	3
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	The Cytoplasmic Membrane	Types of Nucleic Acids *Structure of Nucleic Acids)DNA and RNA(*The central dogma of biology * Functions of DNA and RNA	2 T	4
Mid-term exam. No 1					
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Nucleic Acids in Cells: Structure, Types, and Functions	Phases of the cell cycle (G1, S, G2, M) * Mitosis stages and significance * Meiosis: stages and genetic significance * Cell cycle control and checkpoints * Overview of cancer as uncontrolled cell division	2 T	6

Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Midterm Exam	Covers content from Lectures 1-6 * May include multiple choice, short-answer, labeling diagrams, and prac	2 T	7
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Bacteria: Types and Structure	* Classification by shape (cocci, bacilli, spirilla) * Gram-positive vs. Gram negative bacteria * Bacterial structure: cell wall, capsule, pili, flagella * Bacterial reproduction (binary fission) * Beneficia	2 T	8
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Viruses in humans: Types, Structure, and Diseases	Structure: capsid, genetic material (DNA/RNA), envelope * Lytic vs. lysogenic cycles * Classification: DNA viruses, RNA viruses, retroviruses * Common viral diseases (HIV, influenza, hepatitis, COVID-19) * Vaccines and a	2 T	9
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Fungi: Classification, Structure, and Diseases	Characteristics and classification of fungi * Structure: hyphae, mycelium, spores * Modes of reproduction (sexual/asexual) * Useful fungi (e.g., antibiotics, fermentation) * Common fungal infections (e.g., athlete's fo	2 T	10
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Parasites: classification, structure and pathogenesis	nd pathogenesis * Introduction to Basic Concepts & Terminology * Classification of Medically Important Parasites * Transmission Dynamics & Life Cycles	2 T	13

Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Introduction to Animal Tissues and Epithelial Tissue	Definition of tissue * Classification of animal tissues 13 * Types of epithelial tissues: squamous, cuboidal, columnar * Structure, location, and function of each epithelial type 13. Nervous	2 T	14
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Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Nervous Tissue: Components and Functions	Neurons: structure and types * Neuroglia: types and roles * Functions of nervous tissue * Signal transmission basics	2 T	15
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Connective Tissue: Types and Functions	Characteristics and components (cells, fibers, matrix) * Types: loose, dense, cartilage, bone, blood * Functions: support, transport, defense, storage * Specializ	2 T	16
Daily exams, Questions within the lecture.	- Lectures. - Discussion.	Muscle Tissue: Types and Work Mechanics	Types: skeletal, cardiac, smooth * Microscopic structure of muscle fibers * Mechanism of muscle contraction * Voluntary vs. involuntary muscle functions	2 T	17
11. Course Evaluation					
Evaluation					
Formative			Summative		
Scores	Evaluation methods	Scores	Evaluation methods	Score Standards	
%2	Daily Exams	%10	First Mid-term theoretical exam	- Excellent (90-100_	- Very Good (80-less than 90)
%2	Seminars	%10	Second Mid-term theoretical exam	- Good (70-less than 80)	- Fair (60-less than 70)
%2	Reports	%70	Final theoretical exam	- Acceptable (50-less than 60)	- Fail (less than 50)
%2	Participation				
%2	Volunteer Work				
%10		%90		)%100(total	

12. Learning Resources

1. Marieb, E. N., & Hoehn, K. M. *Human Anatomy & Physiology*. Pearson.
 2. OpenStax. *Anatomy and Physiology*. Rice University.
- Nature Reviews – selected articles related to human biology and physiology.
- Physiological Reviews – selected review articles.
 - Medical and biomedical peer-reviewed journals.
 - World Health Organization (WHO) educational and health resources where relevant.
 - Recent evidence-based literature related to human physiology, health and disease.
 - Stanford University – Human Biology
 - University of Oxford – Institute of Human Sciences
 - OpenStax – Anatomy and Physiology
 - National Center for Biotechnology Information (NCBI)
 - Khan Academy – Biology

1. Course Name	
Medical Physics	
2. Course Code	
HMT 121203	
3. Semester/Year	
Second Semester/ First Year	
4. Date of Preparation of this Description	
25/8/2026	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
3 Credit Hours / 3 Units	
7. Name of Course Supervisor	
Name	E-Mail
Dr. Sara Ahmed	sara.ahmed@alameed.edu.iq
8. Course Objectives	
Upon successful completion of this course, the student will be able to: 1. Establish a solid foundation in the fundamental principles of Medical Physics relevant to health sciences. 2. Integrate physical sciences with human anatomy, physiology, and clinical medicine to explain normal biological functions 3. Interpret the physical mechanisms underlying diagnostic and therapeutic medical technologies. 4. Develop analytical and quantitative reasoning skills for solving healthcare-related physical problems . 5. Apply physical principles to the operation and safe use of biomedical equipment. 6. Evaluate the advantages, limitations, and clinical indications of major diagnostic modalities. 7. Promote radiation protection, patient safety, and quality assurance principles in medical practice. 8. Develop scientific inquiry, evidence-based thinking, and lifelong learning skills. 9. Demonstrate professional, ethical, and collaborative behaviors during laboratory and classroom activities. 10. Prepare students for advanced study in medical technology and clinical sciences. 11. Foster critical thinking and clinical decision-making through the application of Medical Physics concepts.	
9. Teaching and learning strategies	
The course employs student-centered and outcome-based teaching strategies to promote active learning, critical thinking, and clinical reasoning. The main teaching strategies include: • Interactive lectures supported by multimedia presentations. • Case-based learning (CBL) to relate physical principles to clinical practice. • Problem-solving sessions using quantitative and analytical approaches. • Laboratory demonstrations and hands-on practical activities. • Small-group discussions and collaborative learning . • Question-and-answer sessions to enhance student engagement. • Formative assessments and timely feedback to monitor students' progress. • Self-directed learning through assigned readings and independent study. • Use of medical images, simulations, and audiovisual resources to reinforce learning. • Integration of evidence-based practice and patient safety concepts throughout the course.	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Introduction and Overview to Medical Parasitology	Learn about parasitology and its classifications, mentioning the type of each species.	2T	1
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Protozoa, Entamoeba Histolytica, Extraintestinal Amoebiasis, Entamoeba Coli	Identify protozoa that exist as parasites. Identify types of amoebiasis, the diseases they cause, their diagnosis and treatment.	2T	2
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Intestinal Flagellates	Learn the basic concepts of flagellates that infect the intestine, their types, the diseases they cause, and methods of diagnosing and treating them.	2T	3
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Luminal and Atrial flagellates	Learn the basic concepts Luminal and Atrial flagellates , the diseases they cause, and methods of diagnosing and treating them.	2T	4
Mid-term exam. No 1					
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Tissue flagellate, Leishmania Donovanii Leishmania Tropica	Understand the basic concepts, Tissue flagellate, Leishmania Donovanii, Leishmania Tropica the diseases they cause, and methods of diagnosing and treating them.	2T	6

Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Trypanosomes	Learn about the types of trypanosomes, the diseases they cause, and how to treat and diagnose them.	2T	7
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Malaria	Learn about the types of Malaria , the diseases they cause, and how to treat and diagnose them.	2T	8
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Toxoplasma Gondii	Learn about Toxoplasma Gondii, the diseases it causes, and how to treat and diagnose them.	2T	9
Mid-term exam. No 2					
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Helminthes (metazoan) general structure	Identify the types of Helminthes (metazoan) general structure, the diseases they cause, and methods of treating and diagnosing them.	2T	11
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Blood Flukes Schistosomes	Learn about the types of Blood Flukes, Schistosomes, the diseases they cause, and how to treat and diagnose them.	2T	12
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Enterobiusvermicularis, Trichuristrichiura & Ancylostomaduodenale	Identify the types of Enterobius vermicularis, Trichuristrichiura & Ancylostomaduodenale, the diseases they cause, and methods of treatment and diagnosis.	2T	13
Daily exams, Questions within the lecture, & Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Virology Part 1	Learn the basic concepts of virology, methods of treatment, transmission and spread among members of	2T	14

					society, and the methods of classification that are used to classify them.		
Daily exams, Questions within the lecture, &Practical evaluation.	Theoretical lectures. Scenarios and videos. Laboratory training.	Virology Part 2			Identify the most important types of pathogenic viruses	2T	15
11. Course Evaluation							
Evaluation							
Formative		Summative			Score Standards		
Scores	Evaluation methods	Scores	Evaluation methods		- Excellent (90-100 _		
%1	Daily Exams	%10	First Mid-term theoretical exam		- Very Good (80-less than 90)		
%1	Seminars	%10	Second Mid-term theoretical exam		- Good (70-less than 80)		
%1	Reports	%15	Mid-term practical evaluation		- Fair (60-less than 70)		
%1	Participation	%20	Final practical exam		- Acceptable (50-less than 60)		
%1	Volunteer Work	%40	Final theoretical exam		- Fail (less than 50)		
%5		%95		)%100(total			
12. Learning Resources							
- Jawetz Melnick&Adelbergs Medical Microbiology 26/E (Lange Medical Books) 26th Edition.							
- Paniker's Textbook of Medical Parasitology 8th Edition							
- Online learning Videos.							
- Different Online Scientific Articles and Journals.							

نموذج وصف المقرر

1- اسم المقرر: حقوق الإنسان والديمقراطية	
2- رمز المقرر:	
UOA114 (متطلب جامعي)	
3- السنة الدراسية:	
2026/2025 الفصل: الثاني	
4- تاريخ اعداد الوصف	
2026/8/23	
5- اشكال الحضور المتاحة: حضور فعلي في القاعات الدراسية	
6- عدد الساعات الدراسية	
30 ساعة عدد الوحدات 2 وحدة	
7- اسم مسؤول المقرر: م.د. أحمد يعقوب ابراهيم	
8- أهداف المقرر	
1- معرفة مراحل تطور حقوق الإنسان في تاريخ البشرية . 2- التعريف بالمجتمع الدولي وحقوق الإنسان المعاصر . 3- بيان واجبات الإنسان والقيود الواردة على ممارسة حقوق الإنسان . 4- التعريف بآليات الأمم المتحدة لحماية حقوق الإنسان . 5- معرفة المنظمات والهيئات الدولية المعنية بالدفاع عن حقوق الإنسان . 6- معرفة الديمقراطية المعاصرة ومفاهيمها . 7- بيان العلاقة بين حقوق الإنسان والديمقراطية . معرفة ضمانات الحرية والحقوق العامة.	
9- استراتيجيات التعليم	
١- استراتيجيات قائمة على الحوار والنقاش مثل العصف الذهني، المناظرة والمناقشة الموجهة. ٢- استراتيجيات قائمة على التعلم التعاوني مثل التعلم القائم على المشروع، التعلم بالخدمة المجتمعية والتعلم الجماعي. ٣- استراتيجيات قائمة على المواقف والمحاكاة مثل تمثيل الأدوار، دراسة الحالة والمحاكاة. ٤- استراتيجيات قائمة على التفكير النقدي مثل حل المشكلات والتفكير الناقد والتحليل. ٥- استراتيجيات توظيف التكنولوجيا مثل استخدام العروض التفاعلية والفيديوهات التعليمية.	

10-بنية المقرر (محتويات المادة العلمية)

الاسبوع الأول :- تعريف حقوق الإنسان وأهميتها [2 ساعة]

- 1- تعريف حقوق الإنسان وخصائصها وأهميتها
- 2- أنواع حقوق الإنسان (الحقوق السياسية الجيل الأول و الحقوق الاجتماعية و الاقتصادية الجيل الثاني و الحقوق البيئية و التنموية

الاسبوع الثاني: أنواع حقوق الإنسان | 2 ساعة]

- 1- أنواع حقوق الإنسان في الشريعة الإسلامية
- 2- أنواع حقوق الإنسان في دستور جمهورية العراقية لعام 2005م

الاسبوع الثالث: الآليات الوطنية و الإجرائية لحقوق الإنسان[2 ساعة]

- 1- الآليات الوطنية العامة لحقوق الإنسان (احترام السلطات العامة للحقوق و الحريات ، الفصل بين السلطات العامة ، استقلال القضاء و مبدأ المواطنة)
- 2- الآليات الوطنية الخاصة بحقوق الإنسان (المؤسسات الرقابية، المؤسسات التوعوية)

الاسبوع الرابع: تعريف الشرعية الدولية لحقوق الإنسان وعناصرها | 2 ساعة]

- 1- تعريف الشرعية الدولية لحقوق الإنسان
- 2- مبادئ الشرعية الدولية لحقوق الإنسان (الإعلان العالمي لحقوق الإنسان و العهدان الدوليان للحقوق لعام 1966)
- 3- إطار الشرعية الدولية لحقوق الإنسان

الاسبوع الخامس: حقوق الفئات الخاصة (الحقوق الفئوية) [2 ساعة]

- 1- حقوق المرأة و الطفل و الشباب
- 2- حقوق ذوي الإعاقة و الأقليات
- 3- الآليات و الإجراءات الوطنية لتطبيق الحقوق الخاصة

الاسبوع السادس: مكافحة الانتهاكات الجسيمة لحقوق الإنسان | 2 ساعة]

- 1- اتفاقية مناهضة التعذيب و غيرها
- 2- الاتفاقية الدولية لحماية جميع الأشخاص من الاختفاء القسري لعام 2006

الاسبوع السابع: العلاقة بين قانون الدولي الإنساني و قانون حقوق الإنسان | 2 ساعة]

- 1- مبادئ قانون الدولي الإنساني
- 2- العلاقة بين القانون الدولي الإنساني وقانون الدولي لحقوق الإنسان
- 3- الآليات الوطنية و الأجنبية لتطبيق قانون الدولي الإنساني وقانون حقوق الإنسان

الاسبوع الثامن: الانتهاكات الجسيمة لحقوق الإنسان في العراق [2 ساعة]

- 1- الانتهاكات الجسيمة لحقوق الإنسان في الفترة السابقة لعام 2003
- 2- تطبيقات الانتهاكات الجسيمة لحقوق الإنسان في العراق بعد عام 2003

الاسبوع التاسع: مجلس حقوق الإنسان ومهامه وآلياته [2 ساعة]

- 1- تعريف مجلس حقوق الإنسان ومهامه
- 2- آليات عمل المجلس
- 3- آليات الاستعراض الدوري الشامل في مجلس حقوق الإنسان .

الاسبوع العاشر: آليات الحماية الدولية لحماية حقوق الإنسان[2 ساعة]

- 1- الآليات الدولية لحماية حقوق الإنسان (دور الامم المتحدة في حماية حقوق الإنسان، المحكمة الجنائية الدولية).
- 2- الآليات الإقليمية لحماية حقوق الإنسان (الاتفاقية الأوروبية ، الاتفاقية الأمريكية ، الميثاق العربي) .
- 3- الآليات الوطنية و الأجرائية لحماية حقوق الإنسان .

الاسبوع الحادي عشر: التحديات التي تواجه حقوق الإنسان [2 ساعة]

- 1- التحديات القانونية و السياسية
- 2- قضايا حقوق الإنسان المعاصرة.

الاسبوع الثاني عشر: التعريف بالديمقراطية وتطورها وأنماطها [2 ساعة]

- 1- تعريف الديمقراطية .
- 2- الجذور التاريخية للديمقراطية .
- 3- تطور الديمقراطية في العصور الحديثة .
- 4- الديمقراطية في القرن العشرين .
- 5- أنماط الديمقراطية (من حيث العلاقة مع النظام السياسي، من حيث العلاقة مع الشعب) .

الاسبوع الثالث عشر: مبادئ الحكم الديمقراطي و الأحزاب السياسية[2 ساعة]

- 1- أهمية فصل السلطات في الديمقراطية .
- 2- آليات ضبط و التوازن .
- 3- الانتخابات كآلية للديمقراطية .
- 4- الأحزاب السياسية (مفهوم الحزب السياسي و أنواعها - الكادري، الجماهيري، حزب كل شي- والنظم الحزبية).

الاسبوع الرابع عشر: الأنظمة الديمقراطية المقارنة [2 ساعة]

- 1- النظام الرئاسي.
- 2- النظام البرلماني.

3- النظام الشبه الرئاسي.

الاسبوع الخامس عشر: الديمقراطية الرقمية والتجربة الديمقراطية في العراق بعد عام 2003 [2 ساعة]

1- مفهوم الديمقراطية الرقمية .

2- مزايا الديمقراطية الرقمية .

3- التجربة الديمقراطية في العراق .

تقييم نتائج عملية التعلم 11.

تكون درجة التقييم النهائية 100% وتقسم الى:

- 30% درجة السعي وهي نتاج نشاط الطالب اليومي وحضوره وامتحان نصف الكورس

- 70% درجة الامتحان النهائي

مصادر التعلم: 12.

مجموعة من المؤلفات العلمية المعتمدة كمنهج علمي فضلا عن القوانين والاتفاقيات الدولية

د. مهند ضياء الخزرجي، د. مصدق عادل، حقوق الإنسان وحرياته، مكتبة السنهوري، 2019

د. علي فرج الظاهري ، الديمقراطية شبة مباشرة وتطبيق مظاهرها في بعض الدول الديمقراطية المعاصرة، منشورات الحلبي الحقوقية، بيروت، 2010

علي يوسف الشكري ،حقوق الإنسان بين النص والتطبيق : دراسة في الشريعة الإسلامية والمواثيق الدولية، دار الصفاء للنشر والتوزيع ، 2011.

د. حميد حنون الساعدي، حقوق الإنسان، الطبعة الاولى، مكتبة السنهوري، بغداد، 2013

رسالة الحقوق للإمام علي بن الحسين عليه السلام

عهد الامام علي عليه السلام الى مالك الاشر

اعلان حقوق الانسان والمواطن الفرنسي

الدستور العراقي لعام 2005

الاعلان العالمي لحقوق الإنسان منشور على الموقع التالي: <https://www.un.org>

- <https://www.ohchr.org/ar/instruments-mechanisms/instruments/international-covenant-> العهد الدولي للحقوق المدنية والسياسية لعام 1966م

1. Course Name	
Medical TerminologyII	
2. Course Code	
CLT 121113	
3. Semester/Year	
Second, 2026	
4. Date of Preparation of this Description	
2025/8/24	
5. Available Attendance Forms	
Personal Education (In-Person)	
6. Total Number of Hours and Units	
15 hours/15 Units	
7. Name of Course Supervisor	
Name	E-Mail
Prof. Dr. Abdul-Hameed Khalid Khadhair	abdul-hameed@alameed.edu.iq
8. Course Objectives	
1. This medical terminology 2 is set for the Beauty and Cosmo started by Reviewing the basic component of the medical term. 2. Application of the medical term in fields of dermatology 3. Identifying the anatomical structure of the skin layers using English and Latin names as medical terms.. 4. Describing the impact of the external and internal factors causing damage to the skin and medical terms applied for the most important cases associated with skin infection and injuries.	
9. Teaching and learning strategies	
- Theoretical lecture using power points presentation - Using video and picture description of the anatomical organs and medical terms. - Students participation and discussion in the lecture understanding. - Extracting the conclusions after each discussion.	

10. Course Structure

Week	Hour	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	1	Reviewing the introduction on the medical term, Latin and English names Medical Terminology	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Second	1	Reviewing medical term components: importance and applications of medical terms	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Third	1	Reviewing medical term components: word root	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Fourth	1	Reviewing medical term components: prefixes	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Fifth	1	Reviewing medical term components: combining form	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Sixth	1	Reviewing medical term components: suffixes	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Seventh	1	Reviewing medical term components: exceptional terms	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Eighth	1	Integumentary system: role and function,	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Ninth	1	Dermal Structure (Skin Layers)	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Tenth	1	Epidermal Layer	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Eleventh	1	Cortex Layer	Medical	Theoretical	Short and

h			Terminology	lectures	midterm exams & attendance
Twelfth	1	Subcortical layer	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Thirteenth	1	Skin appendages (Hair, nails, glands)	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Fourteenth	1	Commonly Dermal physiological and microbial diseases terms	Medical Terminology	Theoretical lectures	Short and midterm exams & attendance
Fifteenth		Abbreviations in Dermatology	Medical Terminology	Theoretical Lectures	Short and midterm exams & attendance

11. Course Evaluation				
Evaluation				Score Standards
Formative		Summative		
Scores	Evaluation methods	Scores	Evaluation methods	
%5	Daily Exams	%15	First Mid-term theoretical exam	- Excellent (90-100_
		%15	Second Mid-term theoretical exam	- Very Good (80-less than 90)
%5	Participation	%60	Final practical exam	- Good (70-less than 80)
%10		%90		- Acceptable (50-less than 60)
				- Fail (less than 50)
)%100(total				
12. Learning Resources				
David Ellen, Medical Terminology: A Short course, 8th Edition by 2018.				
Linda Stanhop, Introduction to Medical Terminology, 1st Edition 2016				
Edward CC: A Short Course in Medical Terminology 1st Edition.				
Terminology in Dermatology				
1. DermNet: https://www.dermnetz.org				
Terminology in Dermatology, Dr. Amanda Oakley				
2. https://www.pcds.or.uk				
Dermatology Dictionary, PCDC				
3. https://www.midstateskin.com				
Dermatology Terms, MidState Skin Institute				

1. اسم المقرر	
Arabic language for nurses	
2. رمز المقرر	
UOA 111	
3. الفصل / السنة	
First Stage/First Semester	
4. تاريخ اعداد هذا الوصف	
9/28/2025	
5. اشكال الحضور المتاحة	
Personal Education (In-Person)	
6. عدد الساعات والوحدات الدراسية الكلية	
2 Theoretical (2 Hours Per Week), Number of Credits (2)	
7. اسم مسؤول المقرر	
الاسم	الايميل
Lecturer Rami Mohammed Jawad	Lecturer Rami Mohammed Jawad
8. اهداف المقرر	
1. أن ينشأ الطالب على حب العربية لغة القرآن الكريم. 2. التعرف على مواطن الجمال في اللغة العربية وأدائها. 3. تعريف الطالب بألفاظ اللغة العربية الصحيحة وتراكيبها وأساليبها السليمة بطريقة مشوقة وجذابة. 4. تمكين الطالب من استعمال اللغة صحيحاً في الاتصال و القراءة الصحيحة، وأن يكتسب القدرة على صياغة العبارات لغوياً. 5. تنمية حس الاستماع لما يسمع؛ كالسرعة وجودة الإلقاء. 6. تنمية الذوق الأدبي لدى الطالب حتى يدرك النواحي الجمالية في أساليب الكلام ومعانيه وصوره. 7. استعمال أفكاره وما يقع تحت حواسه نطقاً وكتابة وحسن تعويده التعبيرات السليمة الواضحة. 8. تنمية قدرة النواحي جميعها، ومهارة الطالب بحيث يستطيع الكتابة الصحيحة. 9. إيقاظ وعي الطالب إدراك حرف الكلمة وتوجيهها؛ للمحافظة على طهارتها ونقاها. 10. العمل على النهوض باللغة العربية والعمل على نشرها قدر المستطاع. 11. تعليم الطالب قواعد الحديث واحترام الرأي الآخر وكذلك التغلب على عامل العجلة.	
9. استراتيجيات التعليم والتعلم	
- المحاضرات النظرية.	
- المناقشات.	

10. بنية المقرر					
طريقة التقييم	طريقة التعلم	اسم الوحدة أو الموضوع	مخرجات التعلم المطلوبة	الساعات	الأسبوع
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	الأخطاء الشائعة في الاملاء	1- يعرف الأخطاء الشائعة في الاملاء. 2 - يبين أهمية معرفة الشائعة في الاملاء. 3 - يوضح خصائص الشائعة في الاملاء. 4 - يشرح الشائعة في الاملاء	2ن	1
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	الحرف	1- يعرفوا الحرف. 2- يحددوا الحرف. 3- يميزوا بين المبني والمعرب.	2ن	2
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	ما يكتب بالضاد والظاء.	التعرف على ما يكتب بالضاد والظاء.	2ن	3
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	الأخطاء الشائعة في اللغة	التعرف على الأخطاء الشائعة في اللغة	2ن	4
Mid-term exam. No 1					
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	التواسخ في العربية	التعرف على التواسخ في العربية	2ن	6
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	المبني والمعرب	التعرف على المبني والمعرب	2ن	7
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	الشعر الح ر	1- يعرف الادب العربي الحديث. 2 - يبين نوعي الادب. 3 - يذكر الشعر الحر. 4 - يحفظ قصيدة من الشعر الحر.	2ن	8
- امتحانات يومية. - اسئلة داخل المحاضرة.	محاضرات نظرية.	خطبة الرسول صلى الله عليه وآله (بعد غزوة حنين	التعرف على خطبة الرسول- عليه وآله الصلاة والسلام- من خلال تذكيره بفضل الدعوة الإسلامية عليهم، وتفضيل الرسول صلى الله عليه وآله وسلم العيش بين الأنصار دون غيرهم.	2ن	9
Mid-term exam. No 2					
10					

11	2ن	تحديد هزتي الوصل والقطع لتمييز مواضع هزتي الوصل والقطع تبيان مواضع هزتي الوصل والقطع	هزتا الوصل والقطع	محاضرات نظرية	- امتحانات يومية. - اسالة داخل المحاضرة.	الدرجة	تكويني	التقييم	معايير الدرجة	11. تقييم المقرر
12	2ن	كيفية وضع علامات او رموز متفق عليها توضع بين كلمة وأخرى، أو جملة وأخرى، أو في بدايات الجمل ونهاياتها، ترشد القارئ إلى ما يريد كاتب النص.	علامات الترقيم	محاضرات نظرية.	- امتحانات يومية. - اسالة داخل المحاضرة.	الدرجة	تكويني	التقييم	معايير الدرجة	12. تقييم المقرر
13	2ن	التعرف على الشعراء المخضرمين الذين عاشوا قبل الإسلام وأدركوا الإسلام وقصائدهم في الرثاء	عينية أبي نؤيب الهذلي	محاضرات نظرية.	- امتحانات يومية. - اسالة داخل المحاضرة.	الدرجة	تكويني	التقييم	معايير الدرجة	13. تقييم المقرر
14	2ن	1- يعرف الشاعر. 2 - يبين مواقف الشاعر الحياتية. 3 - يوضح حب الشاعر لأهل بيت النبوة عليهم السلام. 4 - يقرأ قصيدة الشاعر. 5 - يشرح معنى القصيدة.	ميمية الفرزدق	محاضرات نظرية.	- امتحانات يومية. - اسالة داخل المحاضرة.	الدرجة	تكويني	التقييم	معايير الدرجة	14. تقييم المقرر
15	2ن	أ- معرفة معاني القرآن، وأسرار التعبير فيه. ب- اختيار النصوص البليغة من الشعر والنثر. ج- تنمية القدرة على تمييز الكلام الحسن من الرديء. د- مساعدة المتكلم صياغة كلامه على وفق المناسبة.	البلاغة في اللغة والاصطلاح	محاضرات نظرية.	- امتحانات يومية. - اسالة داخل المحاضرة.	الدرجة	تكويني	التقييم	معايير الدرجة	15. تقييم المقرر
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5% مشاركة				- مقبول (50- أقل من 60) - ضعيف (أقل من 50)
10%		90%		100% (total)

12. مصادر التعلم والتدريس

- شرح ابن عقيل، شرح محمد محي الدين
- العربية العامة للأقسام غير الاختصاص. د. سعد عليوي
- العربية العامة للأقسام غير الاختصاص. د. نضال احمد، د. انتصار سالم.

1. Course Name	Physiology II	
2. Course Code	EMT1212102	
3. Semester/Year	2nd / 2025-2026	
4. Date of Preparation of this Description	2026/8/28	
5. Available Attendance Forms	Personal Education (In-Person)	
6. Total Number of Hours and Units	4 hours (2 hrs. Theoretical and 2 hrs. Practical, Lab./week) / 3 Units	
7. Name of Course Supervisor	Name	E-Mail
	Assist. Prof. Dr. Hussein A. Al-Ghanimi Assist. Lecturer Bashaer Ali Saqab	hughanimi@alameed.edu.iq bashaaer.a@uokerbala.edu.iq
8. Course Objectives	1. Understand the basic principles of human physiology and homeostasis. 2. Recognize the structures and functions of cells, tissues, organs, and major body systems. 3. Explain normal physiological mechanisms and the relationships between body structure and function. 4. Apply physiological knowledge to basic clinical and practical situations 5. Perform and interpret basic physiological and diagnostic laboratory tests. 6. Develop appropriate laboratory, communication, teamwork, and problem-solving skills 7. Demonstrate ethical, professional, safe, and responsible practices during theoretical and practical	
9. Teaching and learning strategies	Interactive and student-centered lectures. • Problem-based and case-based learning • Demonstration and supervised laboratory practice. • Hands-on physiological and diagnostic skills training. • Small-group and team-based learning. • Microscopy and laboratory-based learning. • Physiological data interpretation and problem solving. • Formative assessment (Quizzes, Assignments, Reports, ...etc) with continuous feedback • Self-directed and reflective learning. • Integration of ethical principles into all practical activities.	

10. Course Structure					
Evaluation Methods	Teaching and Learning Methods	Subject Title	Required Learning Outcomes	Hours	Week
Daily exams, Questions within the lecture	- Lectures. - Scenarios and seminars.	Digestive System part 2	Learn about the general terms in pharmacology and what is the different between them.	4	1
Daily exams, Questions within the lecture,.	- Lectures. - Scenarios and seminars.	Urinary System part 1	Learn about the basic concepts of drug kinetic and how body deal with the drugs	4	2
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars. - Clinical training	Urinary System part 2	Learn about the basic concepts of drug kinetic and how drug affects the body	4	3
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars	Body Temperature regulation and control	Learn about the basic concepts of ANS and cholinergic drugs.	4	4
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars	Muscular System part 1	Learn about the basic concepts of ANS and adrenergic drugs.	4	5
Mid-term exam. No 1					
Daily exams, Questions within the lecture	- Lectures. - Scenarios and seminars.	Nervous System part 1	Understand the basic concepts of CVS physiology and drugs affect this system.	4	7
Daily exams, Questions within the lecture,.	- Lectures. - Scenarios and seminars.	Nervous System part 2	Understand the basic concepts of CVS physiology and drugs affect this system.	4	8
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Nervous System part 3	Understand the basic concepts anemia and which is the best therapy	4	9

Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars	Nervous System part 4	Understand the basic concepts of pediatrics and how to calculate the pediatric drug doses.	4	10
Mid-term exam. No 2					
Daily exams, Questions within the lecture	- Lectures. - Scenarios and seminars.	Nervous System part 5	Understand the basic concepts of geriatrics and how to deal with them.	4	12
Daily exams, Questions within the lecture,.	- Lectures. - Scenarios and seminars.	Endocrine System (Hormones and their types & functions)	Understand the basic concepts of gynecology disease and treatments.	4	13
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Reproductive System (Male reproductive system)	Understand the basic concepts of gynecology disease and treatments.	4	14
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Reproductive System (Female reproductive system)	Understand the basic concepts of gynecology disease and treatments.	4	15
Daily exams, Questions within the lecture,	- Lectures. - Scenarios and seminars.	Special senses	Understand the basic concepts of gynecology disease and treatments.	4	16

11. Course Evaluation					
Evaluation				Score Standards	
Formative		Summative			
Scores	Evaluation methods	Scores	Evaluation methods		
%2	Daily Exams	%10	First Mid-term theoretical exam	- Excellent (90-100_	
%2	Seminars	%10	Second Mid-term theoretical exam	- Very Good (80-less than 90)	
%2	Reports	%70	Final theoretical exam	- Good (70-less than 80)	
%2	Participation			- Fair (60-less than 70)	
%2	Volunteer Work			- Acceptable (50-less than 60)	
%10		%90		- Fail (less than 50)	
%100(total)					
12. Learning Resources					
- Marieb, Elaine N. and Smith, Lori A. Human Anatomy & Physiology Laboratory Manual. 12th Edition. Pearson Education Limited, United Kingdom, 2023.					
- • Widmaier, E. P., Raff, H., and Stang, K. T. Vander’s Human Physiology: The Mechanisms of Human Body. 15th Edition, Mac Graw Hill Education, USA, 2019.					
- • Chandrasekar, M. and Mishra, N. Practical Physiology Book. 2nd Edition, Jaypee Brothers Medical Publishers (P) Ltd, India, 2014.					
https://www.pearson.com/en-gb/subject-catalog/p/human-anatomy--physiology-laboratory-manual-main-version-global-edition/P200000007224/9781292742595?srsId=AfmBOoquLM9X1d_wkGC8HGs9cWfvAzLhJySov8YGZbPLBBubSR4NUdhI					
https://www.mheducation.co.uk/vander-s-human-physiology-ise-9781265131814-emea-group					
https://www.jaypeedigital.com/book/9789350907412					