

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue 2022-2023

College/ Institute	Erbil Medical Technical	Institute
Department	MLT Department	
Module Name	Human Physiology a	nd Anatomy
Module Code	PHA 105	
Degree	1	
Semester	1	
Qualification	Master degree	
Scientific Title	lecturer	
ECTS (Credits)	8	
Module type	Prerequisite Co	re Assist.
Weekly hours	4	
Weekly hours	(2)hr Class	(3)Total hrs Workload
(Theory)		
Weekly hours	(2)hr Class	(1)Total hrs Workload
(Practical)		
Number of Weeks	16	
Lecturer (Theory)	Mustafa Hamadamir	n Rasool
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Lecturer (Practical)		
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Course Book

Course Description	This course, which consists of (2) hours lecture & (2) hrs lab per week for (12) weeks, is an introduction to Human physiology and anatomy ,the systems that present in human body &explain how they work and how they do their specific function and also explain the biological relation between these systems.
Course objectives	The purpose of this course is to enable the student to gain familiarity with Emphasis is placed upon component and physiological characteristics of each system in human body and their function At the conclusion of this course the student should be able to demonstrate through written examinations, quizzes, and oral discussion the following achievements: 1. Demonstrate and understanding of basic physiological concepts that relate to Human body and anatomy of the human body 2. Explaining of the physiological processes at the level of cell, tissues and body organs. 3. Demonstrate an understanding of different diseases in reflects to the normal body mechanisms 4. Organs. 5. Demonstrate basic laboratory skills.
Student's obligation	The students should be attendance and complete of all tests, exams and assignments

Required Learning Materials	lecture halls with data projector, posters	show equipment for	lecture presei	ntations, whi	ite board, overhead
	Task		Weight (Marks)	Due Week	Relevant Learning Outcome
	Paper R	Review	1	1	
		Homework	0.5	4	
	As	Class Activity	2	2	
	Assignments	Report	1	1	
	ıme	Seminar	1	1	
Evaluation	nts	Essay	0	0	
		Project	0	0	
	Quiz		1	4	
	Lab.		2	12	
	Midterm Exam		1	2	
	Final Exam		1	3	
Specific learning outcome:	1- Identify evaluation anatomy and	how the human be	ajor theoretic	_	
Course References:	Anatomy and physio 2-Human Physiology 3- Vanders Human F	y, 9th Edition by S	Stuart and Fo	х.	Tate

Course topics (Theory)	Week	Learning Outcome
Introduction to medical human anatomy and physiology	1	Able to knowing the general principle of cells, tissue, organs
Transport through the biological membranes	2	Be able to knowing all the types of methods in transporting material across the biological membrane
Circulatory cardiovascular system	3	Must be able to knowing all the part of the system and its functions
Cellular part of blood (RBC and WBC)	4	Be able to knowing all types of blood cells and their functions
Muscle physiology and anatomy	5	Be able to know every parts of muscle system part and their functions
Neurophysiology and anatomy	6	Be able to know every parts of nervous system part and their functions
Urinary system and renal physiology	7	Be able to know every parts of renal system part and their functions
Respiratory system	8	Be able to know every parts of Respiratory system part and their functions
Gastrointestinal system physiology	9	Be able to know every parts of Gastrointestinal system part and their functions
Reproductive system	10	Be able to know every parts of Reproductive system part and their functions
THE ENDOCRINE SYSTEM	11	Be able to know every parts of Sensory organs part and their functions
THE INTEGUMENTARY SYSTEM	12	Be able to know every parts of skin organs part and their functions
Practical Topics	Week	Learning Outcome
Microscopic component and its uses	1	Be able to knowing all parts and their functions and how to use of microscope
Blood bank, blood drawing		Be able how to draw blood sample
Blood smear and staining		Be able how to make a blood smear and detection of different types of blood sample in it
Haemoglobin estimation using sahli and drabkin dsolution		Be able to know how blood can be estimate
Blood group and rhesus factor		Being able to know how to detection the types of blood group
Packed cell volume		Be able to practice on how can determination the ration of the PCV
Bleeding and clotting time		Be able to knowing how to detect the rate of bleeding and clotting rate

	tion and detection body temperature	Be able how to detect blood pressure and thermal detection
Spirometer for detecti	ng Respiratory volume of the lungs	Be able to detect the repiratory volume of the lung
R.B.C. count		Be able to count RBC on microscope slide
W.B.C count		Be able to count WBC on microscope slide
Erythrocyte sedime	entation rate	Be able to estimate the rate of E.S.R
Questions Examp	le Design	
- Examination	s (question design):	
Q/ true or false typ a-sugar are digeste b- neuron cell occu	oe of exams: ed in stomach or in renal system	tion is occur in different blood group?
·	mperature is	
1- The body ter	mperature is	
1- The body ter	mperature is	
1- The body ter	mperature is	
1- The body ter	mperature is	
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