Module (Course Syllabus) Catalogue

2024-2025

College/ Institute	Medical technical institute	
Department	Anaesthesia	
Module Name	Physiology and Anatomy	
Module Code	PMP203	
Degree	Technical Diploma \ Bachler High Diploma Master PhD	
	first	
Qualification	Master degree in Medical Microbiology	
Scientific Title	Lecturer	
ECTS (Credits)	8	
Module type	Prerequisite Core \ Assist.	
Weekly hours	4	
Weekly hours (Theory)	(2) hr Class	(3) Total hrs Workload
Weekly hours (Practical)	(2) hr Class	(1)Total hrs Workload
Number of Weeks	14	
Lecturer (Theory)	Tahseen Abdah Abdullah	
E-Mail & Mobile NO.	tahseen.abdullah@epu.edu.iq 07504236395	
Lecturer (Practical)	Tahseen Abdah Abdullah	
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Websites		

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	- **Course objective:** 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	**Student's obligation** The students should be attendance and complete of all tests, exams and assignments.
Required Learning Materials	Lecture halls with data show equipment for lecture presentations, white board.

Evaluation

Task		Weight (Marks)	Due Week	Relevant Learning Outcome
Paper Review				
Assignment	Homework	4		
	Report	10		
	Seminar	10		
	Paper	10		
Quiz		10		
Lab.				
Midterm Exam		16		
Final Exam		40		
Total				

Specific learning outcome:

- **Specific learning outcome:**

On successful completion of this program, graduates will be able to

1-Identify evaluate and apply major theoretical traditions in human anatomy and physiology.

2-Understand how the human body work.

3- Personal save.

Course References:

- **Course Reading List and References:**

1-Anatomy and physiology, 7th Edition by Seeley, Stephen and Tate

2-Human Physiology, 9th Edition by Stuart and Fox.

	3- Vanders Human Physiology (the mechanisms of body function). 11th edition. By Eric P. widmaier

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 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 (Nervous system)	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
Sensory organs	exam	Be able to know every parts of Sensory organs part and their functions
- **Practical Topics (If there is any)**	**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	2	Be able how to draw blood sample
Blood smear and staining	3	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	4	Be able to know how blood can be estimate
Blood group and rhesus factor	5	Being able to know how to detection the

		types of blood group
Packed cell volume	6	Be able to practice on how can determination the ration of the PCV
Bleeding and clotting time	7	Be able to knowing how to detect the rate of bleeding and clotting rate
Blood pressure estimation and detection body temperature	8	Be able how to detect blood pressure and thermal detection
Spirometer for detecting Respiratory volume of the lungs	9	Be able to detect the repiratory volume of the lung
R.B.C. count	10	Be able to count RBC on microscope slide
W.B.C count	exam	Be able to count WBC on microscope slide

- **Examinations (question design):**

Q/ what is the type of blood group and why agglutination is occur in different blood group?
Q/ true or false type of exams:
a-sugar are digested in stomach
b- neuron cell occur in renal system
Q/multiple choice:

1- The body temperature is----------

a- 38 b- 39 c-37

Extra notes:

External Evaluator

The outcome of course book evaluation is commonly more explicit and follows the principles and rules in general.

Sevan Hasan Baker