

Ministry of Higher Education and Scientific research



**Kurdistan Region-Iraq
Paitaxt Private Technical Institute
Department of Pathological Analytics**

**Course Book of the
Anatomy and physiology
First Stage**

Lecturer's Name: Kamaran Hussein Mohammed

Academic Year: 2020/2021

Course Book

1-Course Name	Anatomy and physiology
2-Lecturer in charge	
3-Department/ College	Pathological Analytics/ Paitaxt Institute
4-Contact	Kamaran.mohammed@gmail.com
5-Time(In hours) per week	Theory: 2 hours Practical :2 hours
6-Office Hours	4 Hours
7- Course Code	
8- Teacher's academic profile	<p><i>Education</i></p> <ul style="list-style-type: none"> • Date: 1995 – 1999 “Bachelor in veterinary, Baghdad University. • Date: 2005 – 2007 MSc. Degree; College of medicine, Department of pharmacology
9- Keywords	Nervous, Digestive, Endocrine and Muscular, Integumentary, Skeletal, Sensory, Cardiovascular, Urinary and Reproductive Systems
<p>10- Course Overview:</p> <ol style="list-style-type: none"> 1. To provide overview of the human body structure 2. To apply the knowledge of human anatomy in biomedical engineering field 3. The content of the subject provides the basic knowledge of anatomical terms, human skeletal, Muscle, Joints and surface anatomy of different body organs. 	
<p>11- Course Objective:</p> <p>The prime concern of this syllabus is to learn the terminology of the subject and basic knowledge of cells & tissues and to understand anatomy of human body. This subject will develop an understanding of the structure and function of organs and organ systems in normal human body.</p>	
<p>12- Student's obligation</p> <ol style="list-style-type: none"> 1-The student attention in all theoretical and practical lectures in academic year. 2-Completion of all tests. 3-Attendance in exams. 4-Write or prepare reports. 	
<p>13- Forms of Teaching</p> <p>Our lecture is depending directly on showing the strong point in the lecture via data show depending on the power point program and explain some figures on the white board with the students.</p>	
<p>14- Assessment scheme</p> <p>Final exam: 50 marks</p> <p>Midterm-exams: 20 marks for Practical and 20 marks for theoretical</p> <p>And 10 marks for activity</p>	
<p>15- Student Learning Outcome:</p>	

Students will develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy and recognize the anatomical structures included in syllabus.

16- Course Reading list and References:

- Hole's Human Anatomy & Physiology text book 15th Edition
- Ross & Wilson,(2014),Anatomy & Physiology in health & illness,11th edition, Elsevier Publications

17- The Topics

No	Lecture's titles (Theory)	Laboratory Experiments (Practical)	Hours per week
1	Introduction to Anatomy, anatomical directions, human body cavities. Human body Quadrants, body planes	Anatomical positions, body planes	2+2
2	Chemical levels of organization, cell, tissue, organ, system, Enumeration of human body systems	Study of skeletal systems with the help of models, and charts	2+2
3	Integumentary system	Study of muscular systems with the help of models, and charts	2+2
4	Skeletal system, axial skeleton, appendicular skeleton, structure of the bone, bone types, joints, types of joints.	Study of digestive systems with the help of models, and charts	2+2
5	Muscular system, types of muscles, location of major superficial muscles of the body.	Study of skeletal respiratory systems with the help of models, and charts	2+2
6	Nervous system, central nervous system, peripheral nervous system, function of the nervous system	Study of cardiovascular systems with the help of models, and charts	
7	General and Special senses, anatomy of the sense organs and explain how they function.	Study of urinary systems with the help of models, and charts	2+2
8	Endocrine system, the functions of hormones. Classify hormones into their major chemical categories.	Study of reproductive systems with the help of models, and charts	2+2
9	the hypothalamus of the brain the endocrine glands and location. the major hormones and their effects on the body.	Enumeration of total red blood corpuscles (RBC) count, WBC count	2+2
10	Cardiovascular system: Blood function of blood, blood cells,	Determination of bleeding time	2+2
11	Cardiovascular system: Heart anatomy, heart physiology, artery and vein	Determination of clotting time	2+2

12	Respiratory system, functions, organs of the respiratory system Respiration process	Estimation of hemoglobin content	2+2
13	Digestive system, basic activities of the digestive process. layers or tunics of the walls of the digestive tract. major and accessory organs of the digestive tract and their component anatomic parts.	Determination of blood group.	2+2
14	major digestive enzymes and how they function. functions of the liver. absorption of nutrients occurs in the small intestine functions of the organs of the digestive tract.	Determination of erythrocyte sedimentation rate (ESR).	2+2
15	Urinary system, functions and anatomy of the urinary system, layers of the kidney, cortex, medulla, medullary pyramids, renal papillae, renal columns and major and minor calyces. Bladder and urethra.	Determination of heart rate and pulse rate.	2+2
16	Reproductive system	Recording of blood pressure.	2+2

18- Examinations:

Question Styles

Q1. Mention the different parts of Urinary system. Describe the features and histology of Kidney.

Q2. Write short note on

- a) Stomach
- b) Trachea
- c) Pituitary Gland
- d) Embalming fluid
- e) Karyotyping
- f) Hematoxylin & Eosin staining

Q3. Answer the following;

- a) Parts of the stomach
- b) Name any two lymphatic organs
- c) Name any two major salivary glands
- d) Name any two organs associated with thymus

e) What is bony labyrinth?

Q4. Mention the organs of respiration. Explain the features and functions of lungs.

Q5. Write short notes on any FIVE

- a) Parts of male reproductive system.
- b) Structure of lymph node
- c) Classification of epithelium with examples.
- d) Functional areas of cerebrum
- e) Uterus
- f) Aorta

Q6. Answer the following:

- a) Blood supply of uterus
- b) Lobes of cerebellum
- c) List the types of muscle
- d) Nerve supply of mastication
- e) Name any two long bones of upper limb.

Q7. Which of the following anatomical regions of abdomen lies just distal to the sternum?

- (A) Epigastric
- (B) Hypochondriac
- (C) Hypogastric
- (D) Lumbar
- (E) Umbilical

19- Extra notes:

20-Peer Review

Signature

Good Luck