Republic of Iraq Ministry of Higher Education and Scientific Research **University of Wirth Al anbiya'a** College of Nursing



Course Specifications

Pharmacology II
WNR-12-02
2 Hours
and
2 year
Second semester.
Nassem Samir saker
nassem

Course description

Human Physiology is a single-semester, 4-credit-hour course designed to provide students with an understanding of the function, regulation and integration of human body organ systems. Emphasis is placed on homeostatic maintenance in health as well as in some disease processes.

General objectives / Goals

By the completion of this course the student will be able to:

1. Basic concept and knowledge of structure and functioning of different systems in body.

2. To understand integrated aspect of functioning of the individual and all the systems in totality in body.

3. To understand the integration of the combined knowledge of Physiology, Anatomy and Biochemistry.

4. 4. To know all the common clinical conditions of deranged normal physiology in body - clinical

usefulness for knowing Physiology.

5. To be able to solve simple clinical problems with the help of their knowledge in Physiology.

6. Promote and inculcate curiosity and skill for elective learning in the field of research.

List of contents:

Week	Lecture title	Expected Date/
number		
1.	Introduction to Human Physiology:	16/4/ 2023
	1.1. Introduction of Physiology	
	1.2. Physiology of Body fluids(water) and electrolyte	
2.	Physiology of Digestive System:	23/4/2024
	2.1. Composition and Functions of Salivary Secretion	
	2.2. Swallowing	
	2.3. Gastric Secretion.	
	2.4. Digestion and Regulate the Secretion	
3.	Physiology of Muscular System:	30/4/2024
	3.1. Study the general function of the Muscles.	
	3.2. Types and functions of different parts of these organs.	
	3.3. Contraction of skeletal muscles.	
	3.4. Sliding theory and its steps.	
	3.5. Action potential and ions fluxes.	
4.	Physiology of Respiratory system	7/5/2024
	4.1. Types of respiration	
	4.2. Pulmonary ventilation or respiratory cycle	
	4.3 Factors Control Gases Pressure	
	4.4. Respiratory Muscles	
	4.5. Volume of pulmonary air space	
5.	Physiology of The Cardiovascular System Part1:	14/5/2024
	5.1. Study the functional properties of the heart.	
	5.2. Action potential of the cardiac muscle.	
	5.3. Conductivity and conducting system.	
	5.4. Rhythmicity.	
6.	Physiology of Nervous System:	21/5/2024
	7.1. Membrane potential.	
	7.2. Types of membrane channels.	
	7.3. Action potential.	
	7.4. Synapses and Conduction of Nerve Impulses –action potentials.	
	7.4.1. Types of synapses.	
	7.4.2. Synapses activity.	
	/.J. Kellexes.	29/5/2024
7.	Physiology of the Urinary System:	28/5/2024
	8.1. Study the general function of the urinary system 8.2. The blood	
	and herve supply of the kidney $\delta.5$. The function of the kidney $\delta.4$.	
0	Urine formation 8.4.1. Giomerular filtration	4/6/2024
ð.	Dioou physiology:	4/0/2024
	9.1. Overview of Blood	
	9.2. Gaseous Exchange 9.5. Blood composition	
	9.3.1. Plasma 9.3.2. Red Blood Cells 9.3.3. White Blood Cells	

9.	Physiology of The lymphatic and imm	11/6/2024			
	10.1. Lymph flow				
	10.1.1, Lymph flow in the lymphatic ves				
	10.1.2. Lymph flow in the lymph nodes,				
	10.2. Function of lymph nodes				
	10.3. Function of spleen and thymus				
10.	Physiology of The Endocrine System:	17/6/2024			
	11,1. Types of Glands				
	11.2. Function of endocrine system				
	11.3. Hormones:				
	11.3.1 Characteristics of Hormones				
	11.3.2. Functions of hormones				
11.	Physiology of female reproductive Sys	24/6/2024			
	12.1. The functions of the female reprod	luctive system			
	12.2. Oogenesis				
	12.3, Hormonal control of \bigcirc secondary				
	12,4, Ovarian cycle				
12.	Physiology of Male Reproductive Syst	1/7/2024			
	13.1. Function				
	13.1.1, Spermatogenesis Formation of s				
	13.1.2. Hormonal factors that stimulate				
	13,2, Maturation of sperm in the epididy				
	13.3. Storage of sperms				
13.	Sens physiology	7/7/2024			
	14.1. Cutaneous sensation				
	14.2. physiology of vision				
	14.3. physiology of hearing				
	14.4. Taste bud physiology				
	14.5. Smell physiology				
14.	Review	14/7/2024			
Methods of teaching (theory)					
- Lecture, Discussion, Demonstration					
Methods of evaluation		Degree percentages/			
 Quizzes 		Mid term - Activities	Final exam		
 Assignments 		40	70		
 Written exam 					

Signature Date.....

Head of department signature Faculty Dean approval

