Ministry of Higher Education and Scientific Research

Academic Program and Course Description Guide

2024

Course Description Form

1. Course Name:
Physiology 2nd yr
2. Course Code:
3. Semester / Year:
1st & 2nd semester / year
4. Description Preparation Date:
24/5/2024
5. Available Attendance Forms:
Direct attendance
6. Number of Credit Hours (Total) / Number of Units (Total)
150 hr theory 10unit 90 hr practical 3 unit
7. Course administrator's name (mention all, if more than one name)
Name: Dr. Saeed Hameed Lafta Email: drsaeid@g.uowa.edu.iq
8. Course Objectives

Course Objectives	• Describe the structure and functions of the plasma membrane, glycocalyx, and ions channels. • Describe the blood components and hemopoiesis. • Explain the genesis of resting membrane potential • Describe the gross and microscopic anatomy and the basic functions of the digestive system. • Explain the anatomical and physiological classification of the respiratory system. • Explore anatomical and physiological considerations of cardiovascular system, comparison the structures and pathways of the pulmonary and systemic circulations, comparison in the structure of an artery and vein, and explain how the structure of each type of vessel relates to its function. Describe the structure of capillaries and explain the physiological significance of this structure. • Describe the anatomical organization of the parasympathetic and sympathetic nervous system. • Describe the basic structural and organizational characteristics of the nervous system. • List the functions of hormones. • Describe the different regions of the nephron tubules and the location of the tubules in the kidney.

	• Identify the internal and accessory structures of the eye, and explain the functions of each.

9. Teaching and Learning Strategies

Strategy	Theory , practical, small group learning, reports

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1wk	5hr	1- General outcomes: We seek to provide students at this stage with basic information and introductions to practice necessary for studying advanced stages and clinical training. Include the following: A- Knowledge: • A comprehensive understanding of the basic medical sciences • Comprehensive knowledge of clinical medical sciences of 2- Skills: Communication skill • Scientific research skills. • High ethical, professional and ethic skills. 3- Values: • Commitment to professional ethics	CVS physiology Blood physiology Autonomic NS Renal system Acid base balance Special sense Muscle & nerve CNS GIT Respiratory Endocrine system Cell physiology Body fluid Body temperature RBC count WBC count Differential WBC count Autonomic function test PCV Tests for bleeding disorders ESR Blood indices & bank Blood group Arterial blood pressure Body temperature Heart sound ECG EMG Vital sign in exercise Lung function test Examination of sensory sys. Examination of motor sys. Examination of cranial nerves Examination of optic n. Ophthalmoscope	Theory practical Small groups	Quizzes Monthly written exam mid coarse exam

		• Teaching the studen to provide high-qualit health care. • Encouraging continuous learning. • Contributors to improving the health care system.			

11.Course Evaluation
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation monthly, or written exams, reports .... etc .... 10 degree 1st semester……2practical & 8 theory 20 degree Mid-year .... 6 practical & 14 theory 10 degree 2nd semester .....2 practical & 8 theory 60 degree final .....20 practical & 40 theory

12.Learning and Teaching Resources	
Required textbooks (curricular books, if an	Guyton & Hall Textbook of medical physiology
Main references (sources)	Human Physiology: From Cells to Systems. By Lauralee Sherwood. Seventh ed Human Anatomy & Physiology. Ninth Edition. By Elaine N. Marieb, R N. &
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	

Dr. Saeed Hameed lafta

Head Dept. of physiology & medical physics

24/5/2025