

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of PHYSIOTHERAPY,
2022-2023 Spring
Course Information for PT 107 HUMAN PHYSIOLOGY

Course Name:	HUMAN PHYSIOLOGY				
Code	Regular Semester	Theoretical	Practical	Credits	ECTS
PT 107	2	2	3	4	5
Name of Lecturer(s):	Dler Qadir				
Teaching Assistant:	Dr Dler Qader Omer Gallaly				
Course Language:	English				
Course Type:	Main				
Office Hours	Sunday				
Contact Email:	dler.qadir@tiu.edu.iq Tel:0750 461 8758				
Teacher's academic profile:	Assistant Professor (Medical Physiology)				
Course Objectives:	The purpose and objectives of Physiology are to provide students with knowledge about the function of different body systems and organs. Also, to make students understand, in physical and chemical terms, the mechanisms of function that operate in living organisms at all levels ranging from subcellular to the whole integrated body. In addition, to providing students, throughout teaching programs, with necessary examples of clinical applications of dysfunction.				
Course Description (Course overview):	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.				

COURSE CONTENT

Week	Hour	Date	Topic
1	2	26-30/3/2023	An Introduction to the Human Body
2	2	2-6/4/2023	Physiology of Cell: Plasma Membrane
3	2	9-13/4/2023	Cellular Transport Mechanisms- Passive and Active Transports Mechanisms
4	2	16-20/4/2023	Physiology of Cardiovascular System
5	2	23-27/4/2023	Physiology of Muscular System I
6	2	30/4-4/5/2023	Physiology of Muscular System II
7	2	7-11/5/2023	Midterm Exam
8	2	14-18/5/2023	Physiology of Skeletal System
9	2	21-25/5/2023	Physiology of the Joints
10	2	28/5-1/6/2023	Physiology of Nervous System I
11	2	4-8/6/2023	Physiology of Nervous System II
12	2	11-15/6/2023	Physiology of Integumentary System

COURSE/STUDENT LEARNING OUTCOMES

- 1 Learn an overview of the human body physiology.
- 2 Describe physiological functions of various systems, with special reference to Musculoskeletal, Neuromotor, Cardio-respiratory function, and alterations in function with aging.

3	Be familiar with practical physiology tests to understand physiologic insufficiencies of human body systems compared with the healthy state of body.																																												
4	Analyze physiological response & adaptation to environmental stresses-with special emphasis on physical activity, altitude, temperature.																																												
5	Acquire the skill of basic clinical examination, with special emphasis to Peripheral and Central Nervous system, Musculoskeletal, Cardiovascular and Respiratory systems.																																												
COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES (Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)																																													
Program Learning Outcomes																																													
	Cont.																																												
1	1. Demonstrate knowledge of the underlying concepts and principles associated within the context of health.	I																																											
2	Demonstrate an ability to present, evaluate and interpret qualitative and quantitative data to develop lines of argument and make sound judgments in accordance with basic theories and concepts relevant to health.	I																																											
3	3. Evaluate the appropriateness of different approaches to solving problems related to health.	A																																											
4	4. Asses the qualities and transferable skills necessary for employment requiring the exercise of some personal responsibility.	P																																											
5	5. Apply knowledge and critical understanding of the principles of health and the way in which these have developed	P																																											
6	Demonstrate an ability to apply underlying concepts and principles outside the context in which they were first studied.	P																																											
7	Use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis	P																																											
8	8. Work as a member of the multi-disciplinary team within diverse settings providing an inter-agency and cross-boundary approach to person-centered health and social care.	P																																											
9	9. Demonstrate personal transferable key skills in problem solving, critical thinking, written and verbal communication, team working, professional autonomy.	I																																											
10	Demonstrate knowledge and understanding of human function and dysfunction, the theory and practice of physiotherapy.	P																																											
11	Develop clinical reasoning and problem-solving skills to assess problems and plan interventions to meet service user and career goals.	P																																											
12	Apply therapeutic skills in response to the physical, psychological, social and cultural needs of individuals or groups using critical evaluation of the available evidence	P																																											
Prerequisites (Course Reading List and References):	• Principles of Anatomy and Physiology by Tortora, GJ and Grabowski, SR. • A Textbook of Practical Physiology by Ghai CL																																												
Student's obligation (Special Requirements):	Quizzes, Homework, Exams, Assignments, Seminars, Reports...																																												
Weekly Laboratory/Practice Plan:	<table border="1"> <thead> <tr> <th>Week</th> <th>Hour</th> <th>Date</th> <th>Topics</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3</td> <td>26-30/3/2023</td> <td>Measurement of Blood Pressure</td> </tr> <tr> <td>2</td> <td>3</td> <td>2-6/4/2023</td> <td>Effects of Exercise on Blood Pressure</td> </tr> <tr> <td>3</td> <td>3</td> <td>9-13/4/2023</td> <td>Injection Techniques</td> </tr> <tr> <td>4</td> <td>3</td> <td>16-20/4/2023</td> <td>Cardiopulmonary Resuscitation</td> </tr> <tr> <td>5</td> <td>3</td> <td>23-27/4/2023</td> <td>ABO and Rh Systems</td> </tr> <tr> <td>6</td> <td>3</td> <td>30/4-4/5/2023</td> <td>Blood Withdrawing and Cannulation</td> </tr> <tr> <td>7</td> <td>3</td> <td>7-11/5/2023</td> <td>Midterm Exam</td> </tr> <tr> <td>8</td> <td>3</td> <td>14-18/5/2023</td> <td>Osmotic Fragility of Red Blood Cells</td> </tr> <tr> <td>9</td> <td>3</td> <td>21-25/5/2023</td> <td>Acuity of vision and visual reflexes</td> </tr> <tr> <td>10</td> <td>3</td> <td>28/5-1/6/2023</td> <td>Pulmonary Function Test: Estimation of Vital Capacity</td> </tr> </tbody> </table>	Week	Hour	Date	Topics	1	3	26-30/3/2023	Measurement of Blood Pressure	2	3	2-6/4/2023	Effects of Exercise on Blood Pressure	3	3	9-13/4/2023	Injection Techniques	4	3	16-20/4/2023	Cardiopulmonary Resuscitation	5	3	23-27/4/2023	ABO and Rh Systems	6	3	30/4-4/5/2023	Blood Withdrawing and Cannulation	7	3	7-11/5/2023	Midterm Exam	8	3	14-18/5/2023	Osmotic Fragility of Red Blood Cells	9	3	21-25/5/2023	Acuity of vision and visual reflexes	10	3	28/5-1/6/2023	Pulmonary Function Test: Estimation of Vital Capacity
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	11	3	4-8/6/2023	Electrocardiography
	12	3	11-15/6/2023	Electrocardiography: Axis Deviation of the Heart
Course Book/Textbook:	● Principles of Anatomy and Physiology by Tortora, GJ and Grabowski, SR. ● A Textbook of Practical Physiology by Ghai CL			
Other Course Materials/References:	Youtube (Scientific videos), Medical websites			
Teaching Methods (Forms of Teaching):	Lectures, Practical sessions, Presentation, Seminar, , ,			
COURSE EVALUATION CRITERIA				
Method			Quantity	Percentage (%)
Attendance			1	5
Participation			1	5
Quiz			1	10
Homework			1	10
Midterm Exam			1	30
Final Exam			1	40
			Total	100
Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices, Short Answers, Matching, , ,				
Extra Notes:				
ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD				
Activities			Quantity	Workload Hours for 1 quantity*
Theoretical Hours			12	2
Practical Hours			12	3
Final Exam			1	
Attendance			1	0
Participation			1	0
Quiz			1	0
Homework			1	0
Midterm Exam			1	0
Total Workload				42
ECTS Credit (Total workload/25)				2

Peer review

Signature:

Name:

Lecturer

Signature:

Name:

Head of
Department

Signature
:

Name:

Dean