

Vocational School / Emergency and Medical Aid

2024 - 2025 Academic Year

BASIC PHYSIOLOGY

Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
BASIC PHYSIOLOGY	İAY1124300	Fall Semester	2+0	2	3
Prerequisites Courses					
Recommended Elective Courses	None				
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Assoc.Prof. Mustafa Çağlar BEKER				
Name of Lecturer(s)	Assist.Prof. Cennet Sena PARLATAN				
Assistant(s)	To evaluate the functional mechanisms of the cells, organs and systems that constitute the human organism and the relationships between these functional processes.				
Aim	To evaluate the functional mechanisms of the cells, organs and systems that constitute the human organism and the relationships between these functional processes.				
Course Content	This course contains; Introduction to Physiology: General Physiology,Cellular Physiology,Physiology of Muscle,Physiology of Blood,Physiology of Cardiovascular System 1: Heart,Physiology of Cardiovascular System 2: Circulation,Physiology of Respiratory System,Physiology and Anatomy of Urinary System,Physiology of Digestive System,Physiology of Nervous System 1: Introduction to Nervous System and Central Nervous System,Physiology of Nervous System 2: Peripheral Nervous System,Physiology of Nervous System 3: Sensory Nervous System,Physiology of Endocrine System,Physiology of Reproductive System.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
4.Defines the characteristics of blood, functions of blood cells, mechanisms of haemostasis, coagulation and immunity.			16, 9	A	
1. Explains functional mechanisms of cells and organ systems, their interactions and physiological control mechanisms.			16, 9	A	
2. Explains how normal body functions do happen and to learn which physiological functions could go wrong in pathological conditions.			16, 9	A	
3. Describes the structure and function of the plasma membrane and contraction mechanisms in different muscle types.			16, 9	A	
Teaching Methods	16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to Physiology: General Physiology	Lecture Notes			
2	Cellular Physiology	Lecture Notes			
3	Physiology of Muscle	Lecture Notes			
4	Physiology of Blood	Lecture Notes			
5	Physiology of Cardiovascular System 1: Heart	Lecture Notes			
6	Physiology of Cardiovascular System 2: Circulation	Lecture Notes			
7	Physiology of Respiratory System	Lecture Notes			
8	Physiology and Anatomy of Urinary System	Lecture Notes			
9	Physiology of Digestive System	Lecture Notes			
10	Physiology of Nervous System 1: Introduction to Nervous System and Central Nervous System	Lecture Notes			
11	Physiology of Nervous System 2: Peripheral Nervous System	Lecture Notes			
12	Physiology of Nervous System 3: Sensory Nervous System	Lecture Notes			
13	Physiology of Endocrine System	Lecture Notes			
14	Physiology of Reproductive System	Lecture Notes			
Evaluation Methods		Weight(%)			
Midterm Exam		40			
General Exam		60			

Resources
Powerpoint notes will be given to students.1. Prof. Dr. Levent Ertuğrul, Physiology, Academy Press and Publishing, 2nd Edition (2012) 2. Arthur C. Guyton, John E. Hall, Medical Physiology, Nobel Medical Bookstores, 11th Edition (2007)