

Vocational School of Health Services / Medical Imaging Techniques

2024 - 2025 Academic Year

BASIC PHYSIOLOGY

Syllabus

| Course Description | | | | | |
|---|---|--------------------------------|-------------------------|---------------------------|-------------|
| Name | Code | Semester | T+A Hour | Credit | ECTS |
| BASIC PHYSIOLOGY | TGT1124300 | 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) | Lect. Arda KEBAPCI | | | | |
| 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 |
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| 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) |