

Course Unit	Anatomohistophysiology II			Field of study	Health Sciences			
Bachelor in	Physiotherapy			School	School of Health			
Academic Year	2022/2023	Year of study	1	Level	1-1	ECTS credits	6.0	
Туре	Semestral	Semester	2	Code	9504-770-1202-00-22			
Workload (hours)	162	Contact hours	T 30 TP	- PL 30 T	c - s -	E · OT	20 0 -	
T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other								

Name(s) of lecturer(s) Andreia Martins Pereira

Learning outcomes and competences

- At the end of the course unit the learner is expected to be able to:

 1. Acknowledges the endocrine system and knows the actions of its constituents in target tissues and organs in the human body.
- Identifies the components of the blood and of the lymphatic system and describes their main functions
 Recognises the components and functions of the immunity and urinary systems and understands their role in homeostasis
- 4. Identifies the components of the digestive system, understands their roles, the major nutrients and metabolic processes for energy production and processes that regulate body temperature in human
 5. Identifies the structures that comprise the human male and female reproductive systems, their
- physiology and knows the main stages of human development (from fertilization to postnatal period).

 6. Identifies and locates the macro and microscopic structures of the Central and Peripheral N.System, relating
- them with its main functions acknowledges the anatomical and functional structure of the ANS 7. Knows the structures that make up the male and female reproductive systems, understands their
- functioning and knows the main stages of human development (from fertilization to postnatal period)

Prerequisites

Before the course unit the learner is expected to be able to:

Course contents

1.Integration and Control: Endocrine system.
2.Regulation and Maintenance: Linfatic system and the immune system, respiratory and urinary systems.
Body fluids and acid-base balance. Digestive system, metabolism, and body temperature regulation..Reproduction and Development: Reproductive System; Introductory concepts of genetics, development and growth.4.Relates the main structures of the Central and Peripheral Nervous System with their functions; sensory and motor pathways; Autonomic Nervous System

Course contents (extended version)

- 1. URINARY SYSTEM
- Kidney, ureter, urinary bladder and urethra
 Physiology of renal tissue
 Regulation and maintenance of the urinary system, body fluids and acid-base balance.

 REPRODUCTIVE SYSTEMS
- Ovary, uterine tubes, uterus and vagina, female external genital structures
- Sexual cycle
- Testes, epididymi, ductus deferens, seminal vesicles, ejaculatory ducts, prostate, male genitalia

- I estes, epididymi, ductus deferens, seminal vesicles, ejac
 Reproduction and Development: notions of development (germ, embryonic and fetal) and growth.
 ENDOCRINOLOGY
 Hipothalamus-hypophysis system.
 Functional organization, glands and organs with secretion endocrine; major hormones, heir effects
- effects
 4. NERVOUS SYSTEM
- Nervous StateM
 Physiology, membrane potentials; Central Nervous System; Peripheral.
 Nervous System; Autonomous Nervous System; Senses; functional integration.
 Digestive System
 Digestive system,
 metabolism and body temperature regulation
 IMMUNE SYSTEM AND

- LYMPHATIC
- Regulation and Maintenance of the Immune System (organization
- functional and anatomical)

 Identifies the components of the blood and lymphatic system and knows their main functions.

Recommended reading

- -Drake RL, Vogl AW, & AWM, Mitchell (Eds.). (2010). Gray's Anatomia para Estudantes (2ª ed.): Rio de Janeiro: Editora Elsevier
 -Netter FH (Ed.). (1987). Anatomia y Fisiologia. Colección CIBA de llustraciones Médicas.: Barcelona: Salvat Editores.
 -Junqueira, L. C., & Carneiro, J. (Eds.). (1999). Histologia Básica (9ª ed.): Rio de Janeiro: Guanabara Koogan.
 -Berne, R. M., & Levy, M. N. (Eds.). (2004). Fisiologia. (5ª ed.): Rio de Janeiro: Mosby.
 -Haines, D. E. (Ed.). (2006). Neurociência Fundamental. (3ª ed.): Rio de Janeiro: Churchil Linvingstone Elsevier.

Teaching and learning methods

Teaching methodology: Theoretical classes and practical laboratory classes (anatomy and physiology), that occur in specific rooms equipped with anatomic models and informatics media.

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Assessment methods

- 1. Continuous evaluation (Regular, Student Worker) (Final)
 Intermediate Written Test 45%
 Intermediate Written Test 45%
 Practical Work 10%
 2. Alternative 3 (Regular, Student Worker) (Supplementary)
 Final Written Exam 100%
 3. Alternative 4 (Regular, Student Worker) (Special)
 Final Written Exam 100%

Language of instruction

Portuguese

Electronic validation				
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02.08.2022	02.08.2022	02.08.2022	02.08.2022	