Course Unit	Systematic Anatomy Pathology			Field of study	Biomedical Laboratory Sciences				
Bachelor in	Biomedical Laboratory Sciences			School	School of Health				
Academic Year	2021/2022	Year of study	2	Level	1-2	ECTS credits	5.0		
Type	Semestral	Semester	1	Code	9995-550-2102-00-21				

Workload (hours)	135	Contact hours	T	-	TP	52	PL	-	TC	-	S	-	E	-	OT	8	O	-

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): Jose Pedro dos Santos Neves

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. The fundamental am of the teaching of Systematic Pathological Anatomy is to introduce students to a series of new concepts inherent in the pathology of Human body systems.
2. It is intended that the students know the denominations that define the various pathologies, and use these definitions and knowledge in the interpretation of anatomopathological data.
3. It will be considered the practical context, with the objective of the student to become familiar with procedures, gain aptitude and knowledge to the macroscopic description of biological material.

Prerequisites

Before the course unit the learner is expected to be able to:
Have general knowledge of Anatomy, Physiology and Human Histology.

Course contents

1. Introduction to pathology and to anatomopathological diagnosis; 2. Characteristics, classification and incidence of diseases; 3. Causes of diseases: Genetic, environmental and infectious; 4. Cellular alterations: Growth, differentiation, morphogenesis; Cell response to damage; Metabolism and homeostasis disorders; 5. Inflammation; Repair; 6. Carcinogenesis and neoplasia 7. General concepts of anatomy and NMS 8. Main specific pathologies of each anatomical system

Course contents (extended version)

1. Introduction to pathology and anatomopathological diagnosis.
2. Adaptation, damage and cell death
3. Acute and chronic inflammation.
4. Cell changes and response to damage.
5. Carcinogenesis and neoplasms.
6. General concepts of anatomy and TNM.
7. Skin, connective tissue and osteoarticular.
8. Digestive system.
9. Liver, biliary system and pancreas.
10. Urogenital system.
11. Female genital tract.
12. Male genital tract.
13. Breast
14. Endocrine system. Lymph nodes, thymus and spleen; blood and bone marrow.
15. Head and neck.
16. Cardiovascular system. Respiratory system.
17. Central nervous system.

Recommended reading

1. Robbins S. L. , Cotran S. R. , et al. (2010) Pathologic Basis of Disease. (8thEdition) Sounders Elsevier Edition: ISBN: 978-0-8089-2402-9
2. Cooke R. A. And Stewart B. (2004) Colour Atlas of Anatomical Pathology. (3th Edition) Churchill Livingstone: ISBN: 978-0443073601
3. James C. E. Underwood and Simon S. Cross. (2000) General and Systemic Pathology. (5th Edition) Churchill Livingstone: ISBN: 978-0-443-06888-1
4. Kumar, V. , Abbas, A. K. , Fausto, N. , (2005) Robbins & Cotran Patologia - Bases Patológicas das Doenças (7ª Edição) Elsevier Editora: ISBN 85-352-1391-0

Teaching and learning methods

Expositive, demonstrative and problem-based learning methodology.

Assessment methods

1. Continuous evaluation - (Regular, Student Worker) (Final)
   - Intermediate Written Test - 40%
   - Intermediate Written Test - 40%
   - Presentations - 20%
2. Worker - (Student Worker) (Final, Supplementary, Special)
   - Final Written Exam - 100%
3. Exam - (Regular, Student Worker) (Supplementary, Special)
   - Final Written Exam - 80%
   - Presentations - 20%

Language of instruction

Portuguese, with additional English support for foreign students.

This document is valid only if stamped in all pages.

Electronic validation

Jose Pedro dos Santos Neves	Josiana Adelaide Vaz	Juliana Almeida de Souza	Adília Maria Pires da Silva Fernandes
18-11-2021	21-11-2021	01-04-2022	02-04-2022

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