

Course Unit	General Pathology		Field of study	Medicine	
Bachelor in	Gerontology		School	School of Health	
Academic Year	2022/2023	Year of study	1	Level	1-1
Type	Semestral	Semester	2	ECTS credits	5.0
Code	9833-346-1204-00-22				
Workload (hours)	135	Contact hours	T -	TP 45	PL -
			TC -	S 6	E -
			OT 9	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) Raul Fernando Louro de Sousa

### Learning outcomes and competences

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

Describe pathological phenomena of the human organism: etiology, prevalence, pathogenesis, clinical manifestations and diagnostic methodologies. Know pathologies that affect the elderly population.

### Prerequisites

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

1. To know the anatomy and physiology of the organic systems to be studied
2. Relate the anatomy and physiology of the organic systems to be studied

### Course contents

Concept of pathology. Cell injury. Ischemia and necrosis. Inflammation. Cellular alterations. Neoplasia. Infection. Cardiovascular, respiratory, digestive, urinary, genital, osteoarticular and nervous system diseases.

### Course contents (extended version)

1. Clinical history; Injury, cellular necrosis, Cellular Adaptations; Aging, Death
2. Inflammation. Chemical mediators. Alt. Vascular. Morphological Patterns of Inflammation
3. Cellular adaptations: atrophy, hypertrophy, dysplasia, metaplasia and aplasia.
4. Neoplasia. Characteristics of Benign and Malignant Neoplasms. Molecular Bases of Cancer
5. Infectious diseases. HIV infection; Tuberculosis; Meningitis; Infective endocarditis
6. Heart disease. Cardiac insufficiency; Ischemic heart disease; Hypertensive Cardiopathy
7. Blood Vessel Disease. Response to injury; Atherosclerosis; Hypertensive vascular disease; Aneurysm
8. Pathology of the Blood and Lymphoid Tissue. Definition of anemia. Coagulation Disorders
9. Respiratory System Pathology. Asthma. Chronic obstructive pulmonary disease; Pulmonary infections
10. Digestive Pathology. Esophagus: hiatus hernia. Stomach Disorders: gastritis, ulcers, and carcinomas.
11. Hepatic Injury. Cirrhosis. Hepatic Insufficiency. Hepatitis
12. Endocrine Pathology: Diabetes Mellitus. Metabolic manifestations. Diabetic Foot and Retinopathy.
13. Renal Parenchymal Function Changes
14. Skeletal muscle pathology. Osteoarthritis; Osteoporosis; Drop

### Recommended reading

1. Kumar, Vinay, Cotran, Ramizi S. , & Robbins, Stanley L. (Eds. ). (2003). Robbins Patologia Básica (7ª ed. ): Saunders Elsevier Science.
2. Rubin, Raphael, & Strayer, David S. (Eds. ). (2005). Patologia: Bases Clinicopatológicas de Medicina (4ª ed. ): Guanabara Brasil.
3. Sergio, J. Silveira, Coutinho, Isabel, & Marques, Sandra (Eds. ). (2002). Fundamentos de Patologia para Técnicos de Saúde (2ª ed. ): Lusociência
4. Pinto, Anabela Mota (2007). Fisiopatologia: Fundamentos e Aplicações (2ª ed. ). Lidel

### Teaching and learning methods

Expositive method with presentation of clinical cases/situations of institutionalized elder patients

### Assessment methods

- Final - (Regular, Student Worker) (Final, Supplementary, Special)
- Final Written Exam - 100%

### Language of instruction

Portuguese

### Electronic validation

Raul Fernando Louro de Sousa	Maria Cristina Martins Teixeira	Ana Maria Nunes Português Galvão	Adília Maria Pires da Silva Fernandes
06-03-2023	08-03-2023	08-03-2023	08-03-2023