

Course Unit	General Pathology			Field of study			
Bachelor in	Pharmacy			School	School of Health		
Academic Year	2023/2024	Year of study	2	Level	1-2	ECTS credits	5.0
Туре	Semestral	Semester	1	Code	9549-803-2104-00-23		
Workload (hours)	135	Contact hours	T - TP	60 PL - T	c - s -	E · OT	7,5 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)  Alexandra Daniela Afonso Prada							

### Learning outcomes and competences

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

To describe pathologic events concerning the etiology, the prevalence, the pathogenesis, the symptoms and diagnostic procedures

### Prerequisites

Before the course unit the learner is expected to be able to: none

# Course contents

1. Definition of Pathology2. Cell Injury, Necrosis; 3. Inflammation4. Neoplasia 5. Infectious Diseases6. Musculo-Skeletal Diseases7. Disorders of Hematopoietic System8. Blood Vessels diseases9. Heart Diseases10. Lung and Tract Respiratory diseases11. Disorders of Gastrintestinal Tract, Liver, Biliary Tract and Pancreas. 12. Disorders of the Endocrine System 13. Chronic and Acute Renal Failure 14. Diseases of the Skin and the Eye 15. Sexually Transmitted Diseases 16. Neurological Diseases

### Course contents (extended version)

- 1. Basic principles of pathology; Medical History. Additional Tests 2. Cell Injury. Causes of cell damage; Necrosis; Response to injury; Aging and Death.
- 3. Inflammation
- Chemical Mediators. Vascular Changes
   Morphologic Patterns of Acute and Chronic Inflammation
   Neoplasia. Benign and Malignant Neoplasm; Carcinogenesis
   Infectious Diseases
   HIV. Tuberculosis. Meningitis. Infectious Endocarditis
   Musculoskeletal Diseases

- Musculoskeletal Diseases

   Osteoporosis, Gout

   Disorders of Hematopoietic and Lymphoid Systems

   Iron Deficiency Anemia. Hemolytic Anemia. Megaloblastic Anemia
   Clotting Disorders.

   Diseases of Blood vessels

   Response to Injury; Atherosclerosis. Hypertension. Aneurysm.

   Heart Diseases

- Response to Injury, Americalizations. Trypertens
  9. Heart Diseases
   Congestive Heart Failure
   Ischemic Heart Disease
   Hypertensive Heart Disease
  10. Diseases of the Lung and the Respiratory Tract Asthma

  - Chronic Obstructive Pulmonary Diseases Pulmonary Infections Lung Cancer

  - Pneumonia
- Pulmonary Abscesses

  11. Disorders of the Gastrointestinal Tract, the Liver the Biliary Tract and the Pancreas
- 11. Disorders of the Gastrointestinal Tract, the Liver the Biliary Tract and the Panor.
   Pathology of the Esophagus: dysphagia, hiatal hernia, gastric volvulus, GERD.
   Gastritis; Gastric Ulceration; Gastric Carcinoma
   Hepatic Injury. Cirrhosis. Hepatic Failure. Hepatitis. Hepatocelular Carcinoma.
   Pathology of the vesicle and bile ducts. Acute and chronic pancreatitis.
   Tumors of the gallbladder and gallstones.
  12. Disorders of Endocrine System
   Diabetes Mellitus. Metabolic Disorders. Diabetic Retinopathy
   Thyroid pathology: Goiter, Hyperthyroidism, Hypothyroidism.
  13. Chronic and Acute Renal Failure
   Acute and chronic renal failure.
   Nephritic and Nephritic Syndrome
- Nephrotic and Nephritic Syndrome.
   Diabetes Insipidus.

- Dyalisis.14. Disorders of the skin and the eye
- Pruritus, Psoriasis, Dermatitis. Alopecia. Acne and Rosacea. Hydrosadenite.
   Conjunctivitis. Hyperopia. Stigmatism. Cataract. Diseases of the Retina.
   Sexually Transmitted Diseases.

- Neurological Diseases.
   Stroke, Parkinson's, dementia and Alzheimer's disease.

# Recommended reading

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

### Teaching and learning methods

Theoretical and Practical: expositive, with the support of reflective media. Analysis of clinical cases to develop thinking and application of theoretical knowledge

# This document is valid only if stamped in all pages.

### Assessment methods

- 1. Alternative 1 (Regular, Student Worker) (Final)
   Intermediate Written Test 35%
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   Presentations 30%
  2. Alternative 2 (Regular, Student Worker) (Final)
   Final Written Exam 100%
  3. Alternative 3 (Regular, Student Worker) (Supplementary)
   Final Written Exam 100%
  4. Alternative 4 (Student Worker) (Special)
   Final Written Exam 100%

# Language of instruction

Portuguese

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02-11-2023	06-12-2023	06-12-2023	07-12-2023