

Course Unit	General Pathology	Field of study	-
Bachelor in	Pharmacy	School	School of Health
Academic Year	2023/2024	Year of study	2
Type	Semestral	Semester	1
Level	1-2	ECTS credits	5.0
Code	9549-803-2104-00-23		
Workload (hours)	135	Contact hours	T - TP 60 PL - TC - S - E - OT 7,5 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) 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 Pathology 2. Cell Injury, Necrosis; 3. Inflammation 4. Neoplasia 5. Infectious Diseases 6. Musculo-Skeletal Diseases 7. Disorders of Hematopoietic System 8. Blood Vessels diseases 9. Heart Diseases 10. Lung and Tract Respiratory diseases 11. 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)

- Basic principles of pathology; Medical History. Additional Tests
- Cell Injury. Causes of cell damage; Necrosis; Response to injury; Aging and Death.
- 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
 - Osteoarthritis, 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
 - Congestive Heart Failure
 - Ischemic Heart Disease
 - Hypertensive Heart Disease
- Diseases of the Lung and the Respiratory Tract
 - Asthma
 - Chronic Obstructive Pulmonary Diseases
 - Pulmonary Infections
 - Lung Cancer
 - Pneumonia
 - Pulmonary Abscesses
- Disorders of the Gastrointestinal Tract, the Liver the Biliary Tract and the Pancreas
 - Pathology of the Esophagus: dysphagia, hiatal hernia, gastric volvulus, GERD.
 - Gastritis; Gastric Ulceration; Gastric Carcinoma
 - Hepatic Injury. Cirrhosis. Hepatic Failure. Hepatitis. Hepatocellular Carcinoma.
 - Pathology of the vesicle and bile ducts. Acute and chronic pancreatitis.
 - Tumors of the gallbladder and gallstones.
- Disorders of Endocrine System
 - Diabetes Mellitus. Metabolic Disorders. Diabetic Retinopathy
 - Thyroid pathology: Goiter, Hyperthyroidism, Hypothyroidism.
- Chronic and Acute Renal Failure
 - Acute and chronic renal failure.
 - Nephrotic and Nephritic Syndrome.
 - Diabetes Insipidus.
 - Dialysis.
- 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

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

Electronic validation

Alexandra Daniela Afonso Prada	Maria Cristina Martins Teixeira	Ana Maria Nunes Português Galvão	Adília Maria Pires da Silva Fernandes
02-11-2023	06-12-2023	06-12-2023	07-12-2023