




DISCIPLINE SHEET

1.-Info about the program

| FOUNDATION FOR DEVELOPMENT AND MANAGEMENT | |
|---|-------------------------------------|
| 1.2-Faculty | FACULTY OF MEDICINE |
| 1.3-Departament | Preclinical/Fundamental Disciplines |
| 1.4-Study domain | Health |
| 1.5-Study cycle | Bachelor |
| 1.6-Study program/ Calification | Medicine-English |



2.-Info about discipline

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|-----------------------------|-----|--------------|---|--|------|------------------------|-----------|-----|
| 2.1- Name of the discipline | | | | PATHOLOGICAL ANATOMY -I | | | | |
| 2.2-Course lecturer | | | | Lect. Dr. PLĂMĂDEALĂ Petru , MD, PhD | | | | |
| 2.3-Seminary lecturer | | | | 1.-Univ. Teaching Assistant BURLEC Dora , PhD(c), MD | | | | |
| | | | | 2.-Univ. Teaching Assistant CRACIUN Gabriela-Giorgiana , PhD(c), MD | | | | |
| 2.4-Year of study | III | 2.5 Semester | I | 2.6 Evaluation type | Exam | 2.7. Discipline regime | Content | DF |
| | | | | | | | Mandatory | DOB |

3. -Total time (hours of didactic activity per semester)

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|--|-----|-------------|----|-----------------|-------|
| 3.1-Number of hours per week | 4 | 3.2 -course | 1 | 3.3- laboratory | 2 |
| 3.4-Total hours of the curriculum | 42 | 3.5 -course | 14 | 3.6 -laboratory | 28 |
| Distribution of time | | | | | Hours |
| Study after manual, course support, bibliography and notes | | | | | 30 |
| Additional documentatin in the library, on the specialized electronic platforms and on the field | | | | | 20 |
| Training seminars/laboratories/projects, themes, papers,portofolios and essays | | | | | 4 |
| Tutoring | | | | | 2 |
| Examination | | | | | 2 |
| Other activities | | | | | - |
| 3.7-Individual study hours | 58 | | | | |
| 3.8-Total hours per semester | 100 | | | | |
| 3.9-Credit number | 4 | | | | |

4.-Preconditions (if applicable)

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| 4.1.-Curriculum | Notions of anatomy and physiology |
| 4.2.-Learning Outcomes | Smears |

5.-Conditions (where applicable)



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| 5.1. -Course Conduct | -Projector |
| 5.2.-conducting the seminar/laboratory | -white coats -laboratory equipment, laboratory guide |

6. Learning outcomes

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| Knowledge | Knowledge of the concepts of general pathology in a clinical context Explanation and interpretation: to approach the lesion in relation to the anatomical location, the histological and biochemical particularities, the pathophysiological mechanisms involved. |
| Skills | To recognize macroscopically and microscopically lesions and to decide on the need for further investigations To initiate and complete scientific research and/or training activities in the field of his/her competences |
| Responsibilities and autonomy | Integrates fundamental notions and methods of investigating biological functions, formulates and assumes reasoned conclusions regarding the general mechanisms of disease production and general principles of treatment. |

7.-Objectives of the discipline (resulting from the grid of specific skills accumulated)

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| 7.1 -General objective of the discipline | Knowledge of the morphological substrate of diseases. |
| 7.2- Specific objectives | Knowledge of the diagnostic methods used in morphopathology, of the specific indications for application and their value. |

8.-Contents

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| 8. 1-Course (homework, number of hours, bibliography) | hours / week | Teaching methods |
| 1.-Introduction to the study of morphopathology the object of study of morphopathology. study and diagnosis methods. | 1 | Active and Interactive Video Projection |



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| 2.-Morpho-functional notions on lesions, pathological processes and diseases. classification of pathological processes. | 1 | Active and Interactive Video Projection |
| 3-Cell lesions reversible and irreversible cell damage: dropsy degeneration. steatosis. jaundice. | 1 | Active and Interactive Video Projection |
| 4.-Cellular adaptations regarding growth and differentiation: atrophy, hypertrophy, hyperplasia. necrosis. | 1 | Active and Interactive Video Projection |
| 5.-Acute inflammation varieties of acute inflammation: serous, fibrinous exudative inflammation, | 1 | Active and Interactive Video Projection |
| 6.-Varieties of acute inflammation: purulent (phlegmon and abscess), catarrhal and hemorrhagic. | 1 | Active and Interactive Video Projection |
| 7-Chronic inflammation and repair processes chronic non-specific and specific inflammation. types of granulomatous inflammation: tuberculosis, syphilis. regeneration: control of growth and differentiation. connective tissue repair. wound healing. fracture healing. | 1 | Active and Interactive Video Projection |
| 8.-Connective tissue repair. wound healing. fracture healing. | 1 | Active and Interactive Video Projection |
| 9.-Neoplasia general: definition, nomenclature, general characteristics of benign neoplasms | 1 | Active and Interactive Video Projection |
| 10.-Neoplasia general: definition, nomenclature, general characteristics of malignant neoplasms. | 1 | Active and Interactive Video Projection |
| 11-Classification and morphology of benign and malignant epithelial tumors.classification and morphology of benign and malignant conjunctive tumors. | 1 | Active and Interactive Video Projection |
| 12.Hemodynamic disorders active and passive hyperemia, hemorrhage, thrombosis, embolism, infarction. | 1 | Active and Interactive Video Projection |
| 13.-Morphopathology of the cardio-vascular system atherosclerosis. | 1 | Active and Interactive Video Projection |
| 14.-Myocardial infarction and ischemic fibrosis of the myocardium. | 1 | Active and Interactive Video Projection |
| <p>Mandatory bibliography:</p> <p>1.-Kumar V, Abbas A, Aster J. Robbins & Cotran Pathologic Basis of Disease. 11th Edition. Philadelphia: Elsevier Saunders, 2022.</p> <p>2.-Klatt EC. Robbins and Cotran Atlas of Pathology. 4th Edition. Philadelphia: Elsevier, 2020.</p> <p>3.-Feather A, Randall D, Waterhouse M. / Azamfirei L, Buzoianu AD, Gheonea DI (coordonatorii ediției în limba română). Kumar și Clark Medicină clinică. Ediția a 10-a, București: Editura Hipocrate, 2021.</p> | | |



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|---|-------------|---------------------------------|
| <p>4.-Lawrence PF. / Crețu O, Jinga V, Scripcariu V (coordonatorii ediției în limba română). Chirurgie generală și specialități chirurgicale. Ediția a 6-a, București: Editura Hipocrate, 2021.</p> <p>5.-Color Atlas of Pathology (www.pathologyatlas.ro) Editia a treia. Autor: Danciu Mihai</p> | | |
| 8. 2- Laboratory (themes, number of hours, bibliography | hours /week | Teaching methods |
| 1-2.-Methods Sand techniques of study of morphopathology and cellular pathological processes autopsy, cytodiagnosis and histopathological diagnosis | 4 | Practical laboratory activities |
| 3-4.-Cellular pathological processes acute reversible cell damage – hepatic dropsy degeneration. cellular adaptation reactions – hypertrophy, atrophy Intracellular accumulations of lipids – steatosis, cholesterolosis, atherosclerosis.intracellular accumulations of pigments – jaundice .Tissue calcifications. | 4 | |
| 5-6.- Acute inflammation .Acute exudative inflammation | 4 | |
| 7-8.-Inflammation and healing chronic non-specific inflammation. Specific chronic inflammation: chronic granulomatous inflammation: tb inflammation, actinomycosis, syphilis.Conjunctive regeneration and repair. | 4 | |
| 9-10.-Tumor morphology morphology of benign malignant epithelial tumors.morphology of be conjunctival tumors. | 4 | |
| 11-12.- Morphology of malignant conjunctival tumors. Morphology of benign and malignant tumors of melanoforming tissue. Morphology of teratomas - mature teratoma. | 4 | |
| 13-14.-Circulatory disorders hemorrhage, thrombosis, embolism, heart attacks | 4 | |
| <p>Mandatory bibliography:</p> <p>1.-Kumar V, Abbas A, Aster J. Robbins & Cotran Pathologic Basis of Disease. 11th Edition. Philadelphia: Elsevier Saunders, 2022.</p> <p>2.-Klatt EC. Robbins and Cotran Atlas of Pathology. 4th Edition. Philadelphia: Elsevier, 2020.</p> <p>3.-Feather A, Randall D, Waterhouse M. / Azamfirei L, Buzoianu AD, Gheonea DI (coordonatorii ediției în limba română). Kumar și Clark Medicină clinică. Ediția a 10-a, București: Editura Hipocrate, 2021.</p> <p>4.-Lawrence PF. / Crețu O, Jinga V, Scripcariu V (coordonatorii ediției în limba română). Chirurgie generală și specialități chirurgicale. Ediția a 6-a, București: Editura Hipocrate, 2021.</p> <p>5.-Color Atlas of Pathology (www.pathologyatlas.ro) Editia a treia. Autor: Danciu Mihai</p> | | |



9.-Corroborating/validating the contents of the discipline with the expectations of the representatives of the epistemic community, professional associations and employers representative of the field related to the program

The contents of the discipline are in accordance with the RNCIS standards.

10.-Evaluation

| Activity Type | 10.1-Evaluation criteria | 10.2-Evaluation methods | 10.3- Weight of the final grade |
|-------------------------|---|---|---------------------------------|
| 10.4-Curse | Knowledge of the bibliographic material | Online exam | 50% |
| 10.5-Seminar/laboratory | - Evaluation of the fundamental notions of physiology and pathophysiology | Practical exam - theoretical-online - practical test in the last LP | 25% |
| | Project | Project presentation – online | 10% |
| | Checking along the way | Online Testing | 15% |

10.6 -Minimum Performance Requirement

The minimum passing grade is 5 in both the theoretical and practical exams.

Attendance of courses and practical work

1. -Acquiring the fundamental notions of morphopathology,
- 2.-The body's defense function. Morphopathology of the cardiovascular system
- 3.-Breathing in different environmental conditions
- 4.-Nutrition and physiology of digestion
- 5.-The nervous system, structure and functions. The role of the brain in regulating behavior

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| Date: | Signature of the discipline coordinator: | Holder of the seminar activities: |
| 28.04.2025 | Lect. Dr. PLĂMĂDEALĂ Petru , MD, PhD | 1.-Univ. Teaching Assistant CRACIUN Gabriela-Giorgiana , PhD(c), MD 2.-Univ. Teaching Assistant BURLEC Dora , PhD(c), MD |
| Date of approval in the Department | | |
| Signature of the Director of Department | | |



Reprezentant legal F.D.M.
Presedinte
Prof. Univ. Dr. POSTĂVARU Nicolae