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| Syllabus of discipline  « Histological technique and diagnosis » | | |
| **Lecturer**: Valery Cherno  Professor, Doctor of Medicine,  Head of the Department of Anatomy, Clinical Anatomy, Pathomorphology and Forensic Medicine  Medical Institute of Petro Mohyla Black Sea National University. |  | **Volume**: 3 ECTS credits (90 hours).  **The purpose of the discipline** is to acquaint students with the basic histopathological methods of determining the main pathological processes of the human body. Originality of the discipline: author's course.  **The content of the discipline**  Topic 1. Histological laboratory equipment. Histological technique;  Topic 2. Methods and rules for obtaining histological material;  Topic 3. Cellular organization and functions of cells and tissues of the human body, methods for their determination;  Topic 4. Pathological methods of research of blood and lymph circulation disorders;  Topic 5. Pathological methods of research of metabolic disorders;  Topic 6. Pathological methods of research of disorders of necrosis;  Topic 7. Pathological methods of research of disorders of inflammation; |
| **Expected learning outcomes**  As a result of studying the discipline, students have:  know - technical characteristics and purpose of equipment used in histological technique, features of cell organelle functions and histo-chemical methods of their determination; main pathohistological changes in pathological processes of the human body, and methods of their determination.  be able to - use laboratory equipment for the manufacture of histological specimens, independently conduct the stages of obtaining histological material by autopsy and biopsy, "read" a microscopic image of histological specimens, followed by analysis and clinical conclusion.    **Prerequisites**  Theoretical materials of the presented syllabus of the chosen discipline are based on knowledge of related disciplines, macro-and microanatomy.  **Details**  Students must develop practical skills of histopathological understanding of the processes of transformation of the structural organization of cells and tissues, to master the basic macro- and microscopic manifestations, the main pathological processes in the human body. Analyzing certain cytological features, understand the consequences and level of threat to the human body. |  |
| **Criteria for evaluating independent work**  To master the theoretical and practical foundations of certain topics of the presented elective discipline, students must prepare: a presentation on the list and technical characteristics of the main and auxiliary laboratory equipment used in histological techniques. There are 2 main components of the implementation of the independent work: 1) oral presentation in a practical lesson (40% of the assessment); 2) completeness of disclosure of the presented material, taking into account world achievements (60% of the assessment). |
|  |  | **Criteria for evaluating the control work**  It is based on the determination of residual knowledge after mastering the elective discipline of choice. It includes 3 components: 1) test tasks; 2) Solving educational clinical problems; 3) Presentation of the main pathological manifestations in the cells and tissues of the human body in certain pathological conditions. |
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| **Semester control:** Credit  **Evaluation:**  For the semester:  120 points For credit: 80 points  **Types of work**  Independent work (Presentation) - 40 points.  Final control work (testing) - 40 points.  Survey in group classes - 40 points (4x10). |  |
| **Technical support**  Microscope. Histological preparations. Projection multimedia equipment (projector, screen, laptop / computer). Internet access, Wi-Fi access point. Moodle e-learning system 3.9. |  |
| **Deadline policy**  The works are presented in a certain study schedule, the term - according to the schedule for a certain week |  |
| **Academic Integrity Policy**  Provides independent performance of the provided works and tasks. Write-off during the offset (including using mobile devices) is prohibited. In case of detection of plagiarism or write-off of work are not credited. |  |