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| **General information** |
| **Name of University:** Khmelnytsky National University  **Education :**Bachelor physical therapy, occupational therapy  **Name of the course :Pathology**  **ECTS :** 4 **Language :**Ukrainian  **Study time lessons:** 48 **Study time students :**72  **Place of the course in the education (year & semester) :**year 2, semester 3  **Lector(s) Mikola Maystruk** |
| **Compentences / learning outcomes & goals** |
| **The student who has successfully completed the study of the discipline must:**  **To know:**  The ability to analyze the structure, normal and individual development of the human body and its motor functions.  Ability to interpret pathological processes and disorders and to use suitable means of physical therapy, ergotherapy for their correction.  To apply knowledge of biological, medical, pedagogical and psychosocial aspects of physical therapy and ergotherapy in professional activity. |
| **Learning activities** |
| **Content of the course : describe + content table** |
| The course forms an idea of the general patterns of occurrence, development and course of pathological conditions in the body, lays the foundations for the study of rehabilitation by students.  Content:  I. Pathological physiology  1. General doctrine of the disease.  2. The role of heredity, constitution, and age changes in pathology.  3. The role of reactivity in pathology.  4. Allergies.  5. Pathological physiology of peripheral circulation.  6. Inflammation.  7. Pathology of tissue growth. Tumors.  8. General characteristics of starvation, hypoxia and fever.  9. Typical metabolic disorders.  10. Pathological physiology of the blood system.  11. Pathological physiology of external respiration.  12. Pathological physiology of the digestive system.  13. Pathological physiology of the kidneys.  14. Pathological physiology of the endocrine system.  15. Pathological physiology of the nervous system.  II. Pathological anatomy:  16. Subject and tasks of pathomorphology. Methods of pathomorphological research.  17. Damage. Dystrophy. General Information. Elements of ultrastructural cell pathology.  18. Damage and death of cells and tissues. Necrosis and apoptosis.  19. Circulatory disorders: hyperemia, ischemia, heart attack, bleeding, hemorrhage, stasis, plasmorrhagia. Shock. Lymphatic circulation disorders.  20. Violation of hemostasis. Thrombosis, DIC syndrome. Embolism.  21. General doctrine of inflammation. Sepsis. Specific inflammation.  22. Pathomorphology of the immune system.  23. Regeneration and reparation. Sclerosis. General doctrine of tumors. |
| **Study material** Book – Syllabus – Textbook – Notes - Online material – Other (+specify) |
| 1. Anatomy and physiology with pathology [Educ. tool.] / [Edited by Ya. I. Fedonyuk, L. S. Bilyk, N. H. Mykuly]. - Ternopil: Ukrmedkniga, 2001. - 676 p.  2. Grade BP Pathological anatomy and physiology in diseases of organs and systems [Educ. tool.] / BP Grade, AM Voynarovsky, Yu. M. Valetsky. - Lutsk, 2004. - 326 p. |
| **Educational methods** Lecture – Excursion – group work – Other (+specify) |
| Lecture.  Practicalclasses.  Self-employment. |
| **Evaluation** |
| **Moment of evaluation**  **Evaluation form**   * oral and written questioning (testing), * writtentest, * Writtenexam   **Second chance** |
| Written exam  Second chance possible |