**SCHEDULE AND COURSE DESCRIPTION FOR THE 3RD YEAR OF MEDICAL STUDIES, SEMESTER 1, 2024/2025.**

The course ‘Pathomorphology’ is organized in a block system (two separate weeks) during the 2024/2025 academic year and includes: :

- 25 hours of lectures

- 30 hours of seminars

- 30 hours of practice (conducted in groups of 12)

1. **LECTURES:**

**Lecture Dates:**

1. 14.10.24, 16:00 – 17:50 – 2,5h (Monday)
2. 7.11.24, 15:15 – 16:45 – 2h (Thursday)
3. 21.11.24, 15:15 – 17:30 – 3h (Thursday)
4. 28.11.24, 17:15 – 18:45 – 2h (Thursday )
5. 2.12.24, 17:05 – 20:30 – 4,5h (Monday)
6. 22.01.25, 14:30 – 16:00 – 2h (Wednesday)
7. 24 01.25, 14:30 – 16:45 – 3h (Friday)
8. 31.01.25, 14:30 – 16:45 – 3h (Friday)
9. 3.02.25, 15:15 – 17:30 – 3h (Monday)

**Topics and Teachers for lecture:**

1. Introduction to pathomorphology, its history, classification, and the techniques used in pathomorphological diagnostics . Pathogenesis of diseases. The role of pathology in clinical practice. Principles of the pathomorphological diagnostics department – prof. Dariusz Grzanka, MD, PhD.
2. The cell as the fundamental unit in health and disease. Cell damage and cell health – Anna Klimaszewska-Wiśniewska, PhD.
3. Necrosis. Adaptive mechanisms. Tissue repair processes – prof. Dariusz Grzanka, MD, PhD.
4. Mechanisms of inflammation and morphological markers – Natalia Skoczylas-Makowska, MD, PhD.
5. Circulatory disorders. Morphological markers: thromboembolic diseases, shock, and disseminated intravascular coagulation syndrome (DIC) – Jakub Jóźwicki, MD, PhD.
6. Neoplasia. Fundamentals of carcinogenesis and correlation with morphological characteristics. Morphological indicators of tumor-host reactions. Terminology. Benign and malignant neoplasms – prof. Dariusz Grzanka, MD, PhD.
7. Genetic changes in cancer. Initiating and coexisting mutations, epigenetic modifications. Carcinogenesis as a multistep process – Paulina Antosik, PhD.
8. Basics of tumor classification. Progression, staging, and grading – Jakub Jóźwicki, MD, PhD.
9. Immunohistochemistry in pathomorphology – Paulina Antosik, PhD.
10. Disorders of the immune system – Jakub Jóźwicki, MD, PhD.
11. Knowledge test from lectures.
12. Knowledge test from seminars and tutorials (Colloquium)
13. **SEMINARS AND PRACTICAL TUTORIALS:**

The Pathomorphology classes consist of 3 hours of seminars and 3 hours of tutorials.

**Seminars** are conducted in the dean's groups in room no. **233.**

For tutorials, students are divided into two groups of 12 . They take place in various classrooms throughout the Department. The teaching assistant will collect students from near the secretary office.

Below are the seminar topics, teachers, the activities descriptions, and the respective classrooms.

\*IMPORTANT! The order of seminars and practical exercises (especially) as well as their locations may change, and any updates will be communicated promptly.

1. **Seminar** - HISTOPATHOLOGICAL TECHNIQUES IN PATHOMORPHOLOGICAL DIAGNOSIS – Paulina Antosik, PhD.
2. **Seminar** - INTRODUCTION TO PATHOLOGY AND ADAPTIVE CHANGES – Jakub Jóźwicki, MD, PhD.
3. **Seminar -** CIRCULATORY DISORDERS – Natalia Skoczylas-Makowska, MD, PhD.
4. **Seminar** - ACUTE INFLAMMATION – Radosław Wujec, MD.
5. **Seminar** - CHRONIC INFLAMMATION AND TISSUE REPAIR – Kacper Naglik, MD.
6. **Seminar** - NEOPLASMS – Jakub Jóźwicki, MD, PhD.
7. **Seminar** - PATHOLOGY OF THE RESPIRATORY TRACT – Izabela Neska-Długosz, MD.
8. **Seminar** – PATHOLOGY OF HEART AND VASCULAR DISEASES - Natalia Skoczylas-Makowska, MD, PhD
9. **Seminar** - CHILDHOOD DISEASES – Natalia Skoczylas-Makowska, MD, PhD.
10. **Seminar** - BIOMARKERS IN PATHOMORPHOLOGICAL DIAGNOSIS – Anna Klimaszewska-Wiśniewska, PhD.

**Tutorials:**

1. Autopsy section practices or tissue sample collection - according to schedule
2. Microscopic Practice - Gynecological cytology in telemedicine (case study) - 1 hour Jakub Jóźwicki, MD, PhD/ Autopsy - 1 hour (according to the duty)
3. Introduction to gynecological cytology - Jakub Jóźwicki, MD, PhD / microscopic practice in gynecological cytology - inflammatory changes - Martyna Parol, PhD – 1 hour
4. Laboratory Practice: Histopathological techniques – Paulina Antosik, PhD.
5. Science tutorials – Anna Klimaszewska-Wiśniewska, PhD
6. Microscopy Practice: Adaptive changes and hemodynamic disorders (MD)
7. Microscopy Practice: acute and chronic inflammation (MD)
8. Microscopy Practice: Neoplasms (MD)
9. Microscopy Practice: Pathology of the Respiratory Tract, pathology of heart and childhood diseases (MD)
10. Microscopy Practice: Summary of microscopic practice (MD)