

**48SJ-PATH12****ECTS: 6****YEAR: 2021L****PATHOLOGY 1/2**  
**PATHOLOGY 1/2****COURSE CONTENT**  
**CLASSES**

**PATHOLOGY CLASSES:** 1. Introduction to pathology. 2. Cell injury, cell death and adaptations. Amyloidosis. 3. Hemodynamic disorders, thromboembolism and shock. 4. Inflammation and repair. General pathology of infectious diseases. COLLOQUIUM I /classes 1-4/ 5. Neoplasia. Part 1 Nomenclature, Characteristics of benign and malignant neoplasms. Epidemiology. Cancerogenesis. Hallmarks of cancer. Clinical aspects of neoplasia. Intraepithelial lesions, Carcinoma in situ, paraneoplastic syndromes. 6. Neoplasia. Part 2 (carcinogenic agents) Environmental and nutritional diseases. 7. Pediatric diseases. 8. Blood vessels and heart pathology. COLLOQUIUM II /classes 5-8/ 9. Lung and Pleura pathology. 10. Head and Neck pathology (oral cavity, larynx, pharynx, salivary glands). 11. Gastrointestinal tract pathology (esophagus, stomach, small and large intestines). COLLOQUIUM III /classes 9-11/ **FINAL RETAKE COLLOQUIUM: SEMINAR:** 1. Introduction to pathology. Cell injury, cell death and adaptations. 2. Hemodynamic disorders, thromboembolism and shock. 3. Inflammation and repair. General pathology of infectious diseases. 4. Neoplasia. 5. Pediatric diseases. 6. Blood vessels and heart pathology. 7. General pathology - review.

**LECTURES**

1. Introduction to pathology. Principles of cooperation between pathologists and clinicians. 2. Degenerative and proliferative changes. 3. Hemodynamic disorders. 4. Inflammation and repair including mycobacterioses. 5. Neoplasia.

**EDUCATIONAL OBJECTIVE:**

General Pathology and Systemic Pathology: study and understanding of the basis of the disorders treated in hospitals and outpatients clinics. Interpretation of cytologic and histopathologic examinations records. Mastering of attitudes and behaviours in accordance with medical ethics.

**DESCRIPTION OF LEARNING OUTCOMES FOR THE COURSE IN RELATION TO FIELD AND MAJOR LEARNING OUTCOMES**

Codes of learning outcomes in a major field of study: M/NM+++,

Codes of learning outcomes in a major area of study: C.U11.+ , C.U12.+ , C.W.31.+ , C.W26.+ , C.W27.+ , C.W28.+ , C.W29.+ , C.W30+ , K.2.+ , K.3.+ , K.4.+ , K.5+ , K.7.+ , K.9.+ ,

**LEARNING OUTCOMES:****Knowledge**

W1 - C.W27. basic mechanisms of cell and tissue injury;  
W2 - C.W28. clinical course of specific and non-specific inflammation and regeneration processes of tissues and organs;  
W3 - C.W26. pathomorphological nomenclature;  
W4 - C.W29. definition and pathophysiology of shock, with particular emphasis on the differentiation of causes of shock and multiorgan failure;  
W5 - C.W30 etiology of hemodynamic disorders, regressive and progressive changes;  
W6 - C.W.31. issues in the field of systemicsurgical pathology, macro- and microscopic images and the clinical course of pathomorphological changes in particular organs;

**Skills**

U1 - C.U11. relate the images of tissue and organ damage with clinical manifestations of the disease, medical history and laboratory test results;  
U2 - C.U12. to analyze reactive, defensive and adaptive changes and regulation disorders caused by an etiological factor;

**Social competence**

K1 - K.2. guiding the patient's well-being;  
K2 - K.3. compliance with medical confidentiality and patient's rights;  
K3 - K.4. taking actions towards the patient based on ethical principles, with awareness of social conditions and restrictions resulting from the disease;  
K4 - K.5 perceiving and recognizing one's own limitations and self-assessing deficits and educational needs;  
K5 - K.7. using objective sources of information;  
K6 - K.9. implementing the principles of professional camaraderie and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment;

**BASIC LITERATURE**

1) Vinay Kumar, Abul K. Abbas, Jon C. Aster, Robbins Basic Pathology, wyd. Elsevier, 2017, t. tenth edit

**SUPPLEMENTARY LITERATURE**

1) Brierley J, Gospodarowicz M, Wittekind Ch, 8th Edition of the UICC TNM classification of Malignant Tumors, wyd. Wiley, 2017

**Course/module:**

Pathology 1/2

**Fields of education:**

**Course status:** mandatory  
**Course group:** A - przedmioty podstawowe

**ECTS code:**

**Field of study:** Medicine

**Specialty area:** Medicine

**Educational profile:** General academic

**Form of study:** full-time

**Level of study:** uniform master's studies

**Year/semester:** 2 / 4

**Type of course:**

Classes, Seminar, Lecture

**Number of hours per semester/week:** Classes: 40, Seminar: 20, Lecture: 20

**Teaching forms and methods****Form and terms of the verification results:**

**CLASSES:** Colloquium test - In case of obtaining final failing grade (2) in IV-th and/or V-th semester, Student has a right to take Final Retake Colloquium (after IV-th and/or V-th semester accordingly). Final Retake Colloquium is held in the written form ( 30 multiple-choice questions) for all of the Students with failing grade, in the same time and date, before the beginning of the examination session. To obtain a passing grade (satisfactory – 3) Student has to give at least 60% of answers correct – at least 18 points. There is no retake for the Final Retake Colloquium. In case of failing Final Retake Colloquium Student fails classes, and as a result Student is not allowed to attend another semester nor take the Final Examination, gets a fail grade (2) and has to retake IV-th or V-th semsester respectively. Theoretical knowledge may be checked orally during each practical class. Required knowledge includes subject of present practical class and all previous practical classes. Passing of each class is evaluated upon active participation during current practical class. Students being exceptionally active during a practical class may get additional 0,5 point, which will be added to the final summary at the end of the semester. In case of lack of answers for the questions asked by the teacher student may fail to pass a practical class, and will be obliged to retake this class.(K2, K3, K4, K5, K6, U1, U2, W1, W2, W3, W4, W5, W6) ; **CLASSES:** Colloquium test - During each semester, according to given schedule, three colloquia will be held in the form of written multiple-choice-question test (20 questions). Material and knowledge included in particular colloquium will be described in the schedule on a website of the Department of Pathomorphology and hanged on an information board at the department. For the each colloquium Student may get between 0 and 20 points, which will be summarized with points given for the active participation in practical classes, and will be the underlay for the final grade from IV-th semestr. There is no possibility of retaking the colloquium. During a semsester Student may get between 0 and 60 points summarized for all of the colloquia, plus extra points gained due to active participation in practical classes,

according to the rules and regulations described in the paragraph 5.2a. All summarized points are the underlay for the final grade from semester IV and V, according to the following scale of grades: 0-36 – fail (niedostateczny - 2) 36,5-41 – satisfactory (dostateczny - 3) 41,5-46 – satisfactory plus (dostateczny plus – 3,5) 46,5-51 – good (dobry - 4) 51,5- 56,5 – good plus (dobry plus – 4,5)  $\geq 57$  punktów – very good (bardzo dobry – 5). (K2, K3, K4, K5, K6, U1, U2, W1, W2, W3, W4, W5, W6) ; SEMINAR: Part in the discussion - Passing of each seminar is evaluated upon active participation during current seminar and oral presentation of subject given by the teacher. In case of lack of answers for the questions asked by the teacher student may fail to pass a seminar, and will be obliged to retake it.(K2, K3, K4, K5, K6, U1, U2, W1, W2, W3, W4, W5, W6) ; LECTURE: Evaluation of the work and cooperation in the group - Evaluation of work and cooperation skills in the grup. Participation in discussion.(K1, K2, K3, K4, K5, K6)

**Number of ECTS points:** 6

**Language of instruction:** English

**Introductory courses:**

Normal anatomy, histology, biochemistry, medical biology, mikrobiology.

**Preliminary requirements:**

Normal anatomy, histology, biochemistry, medical biology, microbiology.

**Name of the organizational unit offering the course:**

Katedra Patomorfologii i Medycyny Sądowej,

**Person in charge of the course:**

dr hab. n. med. Konrad Ptaszyński, prof. UWM, dr n. med. Aleksandra Sejda,

**Course coordinators:**

**Notes:**

## Detailed description of the awarded ECTS points - part B

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**PATHOLOGY 1/2**  
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The awarded number of ECTS points is composed of:

1. Contact hours with the academic teacher:

- participation in: classes	40 h.
- participation in: seminar	20 h.
- participation in: lecture	20 h.
- consultation	2 h.
	82 h.

2. Student's independent work:

-	68 h.
	68 h.

1 ECTS point = 25-30 h of the average student's work, number of ECTS points = 150 h : 25 h/ECTS = 6,00 ECTS  
on average: **6 ECTS**

- including the number of ECTS points for contact hours with direct participation of the academic teacher:	3,28 ECTS points,
- including the number of ECTS points for hours completed in the form of the student's independent work:	2,72 ECTS points,