



12048-3-A

ECTS: 6

YEAR: 2016L

**COURSE CONTENT  
CLASSES**

1. Introduction to pathology. Principles of cooperation between pathologists and clinicians. 2. Degenerative and proliferative changes 3. Hemodynamic disorders 4. Summary and Colloquium I 5. Inflammation and repairs - general informations 6. Inflammation and repair - infections, including mycobacterial infections 7. Summary and Colloquium II 8. Neoplasia I Benign and malignant neoplasms-characteristics, epidemiology 9. Neoplasia II Carcinogenesis 10. Summary and Colloquium III.

**LECTURES**

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. Study and ability of macroscopic interpretation (during didactic autopsies). Study and ability of microscopic interpretation. 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:

Codes of learning outcomes in a major area  
of study: C.U11. +, C.U12. +, C.W.31. +, C.W.32. +, C.W.33. +, C.W25. +,  
C.W26. +, C.W27. +, C.W28. +, C.W29. +, C.W30 +, K.1. +, K.5.  
+,

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

W1 - the knowledge of pathologic terminology;  
W2 - the knowledge of basic mechanisms of cell and tissue injury;  
W3 - the description of clinical course specific and non-specific inflammations and - cell and tissue regenerations;  
W4 - the knowledge of definition and pathophysiology of shock, putting the emphasize on the differentiation etiology of shock and multiorgans failure;  
W5 - the knowledge of hemodynamic disorders and adaptive changes;  
W6 - the knowledge of organs pathology, macro- and microscopic pictures and clinical course of pathologic changes in particular organs;  
W7 - the description of developing pathologic changes to adjacent organs;  
W8 - the knowledge of pathologic agents external and internal, modifiable and non-modifiable;  
W9 - the knowledge of clinical forms of the common diseases of particular systems and organs and metabolic diseases

**Skills**

U1 - the matching of pictures of tissue and organs injury with clinical symptoms of diseases, clinical data and laboratory test;  
U2 - the ability to analyse reactive, defence and adaptive changes and dysfunctions of homeostasis caused by etiologic factor;

**Social competence**

K1 - Knows how to make and keep deep and full of respect contact with a patient.  
K2 - Behaves with dignity and respect in the presence of human bodies and remains.

**BASIC LITERATURE**

Kumar V., Abbas A.K., Fausto N., Mitchell R., 2013r., "Robbins basic pathology", wyd. Saunders.

**SUPPLEMENTARY LITERATURE****Course/module:**

Pathology 1/2

**Fields of education:**

Obszar nauk medycznych, nauk o zdrowiu i nauk o kulturze fizycznej

**Course status:** mandatory**Course group:** A - basic course**ECTS code:** 12048-3-A**Field of study:** Medicine**Specialty area:** Medicine**Educational profile:** Practical**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**

Classes(K1, K2, U1, U2, W1, W2, W3, W4, W5, W6, W7, W8, W9) : Practical classes - Interpretation of macroscopic and microscopic pictures. Didactic autopsy., Seminar(U1, U2, W1, W2, W3, W4, W5, W6, W7, W8, W9) : Problems solving seminary, Lecture(U1, U2, W1, W2, W3, W4, W5, W6, W7) : Presenting lectures

**Form and terms of the verification results:**

CLASSES: Colloquium test - Written colloquium according to the classes schedule. (U1, U2, W1, W2, W3, W4, W5, W6, W7, W8, W9) ; SEMINAR: Part in the discussion - Participation in discussion(U1, U2, W1, W2, W3, W4, W5, W6, W7, W8, W9) ; LECTURE: Evaluation of the work and cooperation in the group - Evaluation of work and cooperation skills in group.(K1, K2)

**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,

**Person in charge of the course:**

dr n. med. Zygmunt Koziółec, , dr hab. n. med. Konrad Ptaszyński, prof. UWM

**Course coordinators:****Notes:**

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

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### **PATHOLOGY 1/2**

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,