Course description

Part 1

<table>
<tr><th colspan="2">General information about the course</th></tr>
<tr><td>1. Major of study: medicine</td><td>2. Study level: unified MSc
3. Form of study: intramural</td></tr>
<tr><td>4. Year: IV</td><td>5. Semester: VII, VIII</td></tr>
<tr><td colspan="2">6. Course name: Pathomorphology I + II</td></tr>
<tr><td colspan="2">7. Course status: required</td></tr>
<tr><td colspan="2">8. Course contents and assigned learning outcomes
Pathology of tissues, organs and systems. Analysis of diseases etiology, course and outcomes. Correlation between disease pathomorphological picture, clinical symptoms and course. Recognizing of microscopic pictures and linking them to adequate diseases and disorders.

Learning outcomes / reference to learning outcomes indicated in the standards
For knowledge – student knows and understands:

C.W26. pathomorphological nomenclature

C.W27. basic mechanisms of cell and tissue injury

C.W28. clinical course of specific and non-specific inflammatory processes, tissue and organ regeneration

C.W29. definition and pathophysiology of shock, including shock causative factors and multi-organ insufficiency

C.W30. etiology of hemodynamic disorders, degenerative and progressive changes

C.W31. detailed organ pathology; gross and microscopic pictures as well as clinical course of pathological changes within different organs

C.W32. consequences of pathological changes for organs located within the area

C.W33. external, internal, modifiable and non-modifiable pathological factors

C.W34. clinical course of most common diseases of tracts and organs, metabolic diseases, electrolite, hormonal and acid-base balance disorders

For skills student can do:

C.U11. links tissue and organ disorders with clinical symptoms, anamnesis and laboratory results

C.U12. analysis of reactive, protective and adaptation processes as well as regulation disturbances caused by etiological factors

For social competencies student is ready to:
constant training</td></tr>
<tr><td>9. Number of hours for the course</td><td>170</td></tr>
<tr><td>10. Number of ECTS points for the course</td><td>13</td></tr>
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11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Written evaluation – open questions Grade credit – MCQ	*
Skills	Report Observation Practical exam	*
Competencies	Observation	*

* The following evaluation system has been assumed:

Very good (A) – the assumed learning outcomes have been achieved and significantly exceed the required level
Better than good (B+) – the assumed learning outcomes have been achieved and slightly exceed the required level
Good (B) – the assumed learning outcomes have been achieved at the required level
Better than satisfactory (C+) – the assumed learning outcomes have been achieved at the average required level
Satisfactory (C) – the assumed learning outcomes have been achieved at the minimum required level
Unsatisfactory (F) – the assumed learning outcomes have not been achieved

Course description

Part 2

Other useful information about the course	
12. Name of Department, mailing address, e-mail: **Katedra i Zakład Patomorfologii i Diagnostyki Molekularnej** **ul. Medyków 18, 40-752 Katowice** **Patologia.sum.edu.pl**	
13. Name of the course coordinator: dr Weronika Szczęsny Karczewska	
14. Prerequisites for knowledge, skills and other competencies: **human anatomy, histology with elements of embryology, human physiology, basis of biology, English language**	

15. Number of students in groups	In accordance with the Senate Resolution
16. Study materials	Robbins and Cotran „Pathologic basis of disease” Robbins and Cotran “Atlas of Pathology” Light microscopes and tissue slides. Multimedia presentations /lectures, seminars, labs/.Presentation of slides during labs. Self-searching for pathomorphological structures in slides.
17. Location of classes	Lab rooms no. 4 and 5
18. Location and time for contact hours	**Katedra i Zakład Patomorfologii i Diagnostyki Molekularnej** Mondays 9:00 – 11.30

19. Learning outcomes

Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01/C_K01	Knows pathomorphological nomenclature	C.W26.
P_W01/C_K02	Knows basic mechanisms of cell and tissue injury	C.W27.
P_W01/C_K03	Knows clinical course of specific and non-specific inflammatory processes, tissue and organ regeneration	C.W28.
P_W01/C_K04	Knows definition and pathophisiology of shock, including shock causative factors and multi-organ insufficiency	C.W29.
P_W01/C_K05	Knows etiology of hemodynamic disorders, degenerative and progressive changes	C.W30.

P_W01/C_K06	Knows detailed organ pathology; gross and microscopic pictures as well as clinical course of pathological changes within different organs	C.W31.
P_W01/C_K07	Knows consequences of pathological changes for organs located within the area	C.W32.
P_W01/C_K08	Knows external, internal, modifable and non-modifable paathological factors	C.W33.
P_W01/C_K09	Knows clinical course of most common diseases of tracts and organs, metabolic diseases, electrolite, hormonal and acid-base balance disorders	C.W34.
P_U01/C_S01	links tissue and organ disorders with clinical symptoms, anamnesis and laboratory results	C.U.11.
P_U02/C_S02	analysis of reactive, protective and adaptation processes as well as regulation disturbances caused by etiological factors	C.U.12.

20. Forms and topics of classes	**Number of hours**
21.1. Lectures	
General pathology of cell injury and necrosis. Metodology of pathomorphological examinations.	**3**
Tissue growth and differentiation. Hemodynami disorders.	**3**
Pathomorphology if inflammation. Repair.	**3**
General pathology of neoplasms.	**4**
Pathomorphology of respiratory tract.	**3**
Pathomorphology of cardio-vascular system.	**3**
Pathomorphology of gastrointestinal tract.	**3**
Pathomorphology of liver and the pancreas.	**3**
Pathomorphology of male genitourinary system.	**3**
Pathomorphology of the breast and female genitourinary system.	**3**
Pathomorphology of skin, muscle and bone.	**3**
Pathomorphology of CNS.	**3**
Pathomorphology ofbone marrow. Pathomorphology of lymphatic system.	**3**
AIDS.	**3**
Histopathology unit – work and organization, cooperation with clinicians.	**3**

Soft tissue pathology.	**3**
Pathology of prostate.	**3**
Lung neoplasms.	**3**
Melanocytic skin lesions.	**3**
Pathology of oral cavity.	**3**
Childhood neoplasms.	**3**
Non-melanocytic skin lesions.	**3**
Carcinoma of cervix of the uterus.	**3**
22.2. Seminars	
Cell injury and necrosis. Metodology of pathomorphological examinations.	**4**
Tissue growth and differentiation. Hemodynami disorders.	**2**
Pathomorphology if inflammation. Repair.	**2**
General pathology of neoplasms.	**2**
Pathomorphology of respiratory tract.	**2**
Pathomorphology of cardio-vascular system.	**2**
Pathomorphology of gastrointestinal tract.	**2**
Pathomorphology of liver and the pancreas.	**2**
Pathomorphology of male genitourinary system.	**2**
Pathomorphology of the breast and female genitourinary system.	**2**
Pathomorphology of skin, muscle and bone.	**2**
Pathomorphology of CNS.	**2**
Pathomorphology ofbone marrow. Pathomorphology of lymphatic system.	**2**
Slaaid review..	**2**
23.3. Labs	
Cell injury and necrosis	**4**
Metodology of pathomorphological examinations.	**2**
Tissue growth and differentiation.	**4**
Hemodynami disorders.	**4**
Pathomorphology if inflammation. Repair.	**4**
Pathomorphology of autoimmun diseases.	**2**
Genetic disorders.	**2**

General pathology of neoplasms.	**4**
Pathomorphology of respiratory tract.	**4**
Pathomorphology of cardio-vascular system.	**4**
Pathomorphology of gastrointestinal tract.	**4**
Pathomorphology of liver and the pancreas.	**2**
Pathomorphology of male genitourinary system.	**2**
Pathomorphology of urinary system.	**4**
Breast pathology.	**4**
Pathomorphology of female genitourinary system.	**4**
Skin pathology.	**4**
Pathomorphology of skin, muscle and bone.	**2**
Pathomorphology of CNS.	**4**
BFunction and pathology of bone marrow.	**4**
Lymphatic system diseases.	**2**

24. Readings

Robbins and Cotran „Pathologic basis of disease”
Robbins and Cotran “Atlas of Pathology”

25. Detail evaluation criteria

In accordance with the recommendations of the inspection bodies
Completion of the course – student has achieved the assumed learning outcomes
Detail criteria for completion and evaluation of the course are specified in the course regulations