

Karta przedmiotu / Course description

Informacje ogólne o przedmiocie / General information about the course	
1. Kierunek studiów / Major of study: Medical Biotechnology	2. Poziom kształcenia / Study level: master 3. Forma studiów / Form of study: stationary
4. Rok / Year	5. Semestr / Semester: winter
6. Nazwa przedmiotu / Course name: Pathomorphology with pathophysiology	
7. Status przedmiotu / Course status: optional	
8. Jednostka realizująca przedmiot, adres, e-mail: Name of Department, mailing address, e-mail: Department of Pathology Ostrogórska 30, 41-200 Sosnowiec e-mail: farpat@sum.edu.pl www.patologia.sum.edu.pl	
9. Treści programowe przedmiotu Course contents: - learning the basics of pathophysiology - to familiarize with the mechanisms of development of functional disorders occurring during the disease - getting acquainted with the etiology and pathogenesis of individual diseases	
10. liczba godzin z przedmiotu / Number of hours for the course	30
11. liczba punktów ECTS dla przedmiotu / Number of ECTS points for the course	2
12. Formy i tematy zajęć / Forms and topics of classes	
12.1. Seminars	
1. Histopathology and pathophysiology: definitions, post-mortem and <i>in vivo</i> examinations, cytodiagnosis, histochemistry, cell cultures, experimental studies.	1
2. Pathophysiology of circulatory disorders I: hemorrhages, hyperemia and ischemia, shock.	1
3. Pathomechanism of circulatory disorders II: clotting disorders, thrombosis, stroke.	1
4. Pathomechanism of circulatory disorders III: atherosclerosis, myocardial infarction (risk factors, consequences, prevention)	1
5. Pathomechanism of atrophy, degeneration and necrosis : causes, types and clinical significance.	1
6. Progressive changes: hypertrophy and hyperplasia, regeneration and repair. Mechanisms of wound healing.	1
7. Neoplastic transformation and carcinogenesis: pathomechanism of neoplastic disease, general pathology of tumors.	1
8. Cancer: risk factors, General classification of cancers, morphological and biological characteristics of benign and malignant tumors.	1
9. Inflammation: types and their characteristics, causes and pathomorphological diagnosis, local and general symptoms of inflammation.	1
10. Opportunistic inflammations: etiopathogenesis of various pneumonias.	1

12.2 Laboratory classes	2
1. Basics of histology: heart (<i>cor</i>), brain (<i>cerebrum</i>), liver (<i>hepar</i>), lung (<i>pulmo</i>), kidney (<i>ren</i>), thyroid (<i>glandula thyroidea</i>), lymph node (<i>nodus lymphaticus</i>)	2
2. Microscopic image of haemorrhage, liver congestion, lung edema.	2
3. Microscopic image of different types of clots.	2
4. Microscopic view of vessels engaged in atherosclerosis. Heart attack and post-infarction scar.	2
5. Stomach ulcer and caseification - causes, symptoms, diagnosis and treatment	2
6. Wound healing process- complicating factors, keloids.	
7. Benign neoplasms. Microscopic view of papilloma, myoma, adenoma.	
8/9. Pathogenesis, risk factors, diagnosis and treatment of selected malignant tumors (to choose from: gynecological cancers, cancers of the digestive system, skin cancers). Basics of cell culturing.	4
10. Characteristics of selected nephritis and pneumonia.	2
13. Literatura / Readings	
1. Wieczorek M. Histopatologia ogólna i podstawy cytodiagnostyki SUM. Katowice 2011. Skrypt. Księgarnia Internetowa.	
2. Guzek J. W. Patofizjologia człowieka w zarysie. Wydawnictwo Lekarskie PZWL. Warszawa 2008.	
3. Maśliński S, Ryżewski J. Patofizjologia. Wydawnictwo Lekarskie PZWL, Warszawa 2002.	
4. Kruś S, Skrzypek-Fakhoury E. Patomorfologia kliniczna. Wydawnictwo Lekarskie PZWL, Warszawa 2007	
5. Kumar V, Cotran R.S, Robbins S.L. Patologia Robbinsa. Elsevier Urban & Partner. Red. wyd. pol. Włodzimierz T. Olszewski. Wrocław 2014	
14. Kryteria oceny – szczegóły / Detail evaluation criteria	
Zgodnie z zaleceniami organów kontrolujących / In accordance with the recommendations of the inspection bodies	
Zaliczenie przedmiotu - student osiągnął zakładane efekty uczenia się / Completion of the course – student has achieved the assumed learning outcomes	
Szczegółowe kryteria zaliczenia i oceny z przedmiotu są zamieszczone w regulaminie przedmiotu / Detail criteria for completion and evaluation of the course are specified in the course regulations	