

University: Comenius University in Bratislava	
Faculty: Faculty of Pharmacy	
Course Code: FaF KFT/13-Mgr-A/00	Course Name: Pathology
Type, Extent and Method of Educational Activities:	
Type of Educational Activities: Lecture / Seminar	
Extent of Educational Activities: (in hours):	
Per week: 2/ 2 Per semester: 28/ 28	
Number of Credits: 5	
Recommended Study Semester/Trimester: Master: 3 rd or 5 th Course	
Study Level: <i>Master = 1st+ 2nd degree</i>	
Prerequisite Courses: obligatory FaF.KFT/19-Mgr-A/00 General Biology, FaF.KFT/01-Mgr-A/00 Anatomy and Physiology	
Conditions for Course Completion:	
Obligatory participation in lectures, seminars. Preparation and presentation of one seminar work. During the course students have to pass 3 pretests with minimal rate 60%.	
Final assessment: oral form of examination	
Results of Education:	
Completing the subject, students will gain knowledge of general pathology - focused on the fundamental cellular and tissue responses to pathologic stimuli, and special pathology – oriented on the particular responses of specialized organs and systems of the diseased organism. Student recognized the causes of disease, underlying mechanisms that result in the presenting signs, symptoms and subsequent complications. Student could understand the structural and functional changes at the level of cells, tissues, organs and systems of the diseased organism, as well as the disturbances in the regulatory mechanisms. The obtained knowledge help him to bridge basic science to pharmacology and clinically oriented subjects.	
Course Description:	
Introduction to pathology. Concept of disease and illness, etiology, pathogenesis, clinical manifestations, classification, and incidence of diseases. Disorders of the differentiation and morphogenesis. Disorders of the growth. Causes and mechanisms of cellular Injury. Principles of molecular pathogenesis and genetics. Genetic abnormalities, developmental disorders. Hereditary diseases. Mechanisms of disturbances in vascular circulation. Inflammation - etiology, acute, chronic, pathomechanisms, role of blood elements, mediators. Oedema. Fever. General symptomatology – causes, pathomechanisms. Pain. Diseases of the arteries. Atherosclerosis. Hypertension. Ischemic disease of the heart. Myocardial Infarction. Rhythm disturbances. Heart failure. Hematologic Disorders. Disorders of Blood Coagulation and Haemostasis. Selected disorders of the nervous system. Epilepsy, neurodegenerative disorders (Alzheimer Disease, Parkinson Disease). Disturbances in the sleep, memory disturbances, pathophysiology of ANS. Unconsciousness. Shock. Colaps, hypotension. Psychiatric disorders - anxiety and personality disorders, depression, bipolar disorder, schizophrenia. Diseases of the respiratory system. Cough, Astma. Bronchitis, Obstructive airways disease. Respiratory insufficiency. Alterations of the digestive function. Basic manifestations of GIT disorders. Peptic ulceration - disturbances of the Gastric Juice Production. Liver diseases - jaundice, hepatitis, cirrhosis, failure. Metabolic and Nutritional Bone Alterations. Alterations of the Hormonal Regulation. Pathophysiology of renal disorders. General symptomatology, Glomerular diseases. Tubulo-interstitial disorders. Renal Failure. Immunopathology. Basic concepts of tumor pathology. Definitions and epidemiology. Classification. Benign and malignant neoplasia. Clinical manifestation, Metastasis, prognosis. Disorders of the Sensory System,	
Recommended Literature:	
Essentials of Pathophysiology, 3 rd edition, by C.M. Porth. Ed. Lippincott and Wilkins: Philadelphia, 2011, ISBN 0781770874	
General and Systemic Pathology, 4 th edition, by J.C.E. Underwood. Ed. Churchill Livingstone: NY, 2004 ISBN 0443073341/9780443073342	
Textbook of pathology, 6 th edition, by H. Mohan. Ed. Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, India, 2010, ISBN 978-81-8448-702-2	
Language Requirements: English	
Notes: subject is provided only in the winter semester	
Course Evaluation:	
Winter course 2012, 2013 161 students	
<i>A – 10%, B – 31%, C – 24%, D – 14%, E – 14%, FX – 7%, 20-25 % did not fulfilled requirements</i>	
Teachers:	
<i>Lecturers:</i> doc. MUDr. T. Stankovičová, CSc., prof. PharmDr. J. Kyselovič, CSc., doc. PharmDr. J. Klimas, PhD., MPH, doc. PharmDr. A. Hrabovská, PhD., PharmDr. T. Foltánová, PhD.	
<i>Assistants:</i> PharmDr. T. Foltánová, PhD., PharmDr. S. Jankyová, PhD., PharmDr. E. Kráľová, PhD., PharmDr. Z. Kiliánová, PhD., PharmDr. A. Čorejová, PhD.	
Date of Last Update:: 17.2.2014	
Approved by: Assoc. Prof., MD. T. Stankovičová, CSc., guarantor	

