

COURSE DESCRIPTION

Academic year: 2022/2023	
University: Comenius University Bratislava	
Faculty: Faculty of Pharmacy	
Course ID: FaF.KFT/24-Mgr/19	Course title: Functional and Pathological Anatomy
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course:	
Number of credits: 6	
Recommended semester:	
Educational level:	
Prerequisites:	
Recommended prerequisites: None	
Course requirements: Personal attendance at all lectures and practical classes, justified absence (max 2x) is replaced according to the instructions of the teacher; to pass 2 scheduled pre-tests, each minimally 60% rate. The final exam test is completed by students in computer by written form (distant) of examination. To pass the final exam test by students in minimally 60% rate. Evaluation (mark and score): A 91-100%, B 81-90%, C 71-80%, D 66-70%, E 60-65%, FX < 60%. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: By passing the subject, the student acquires essential knowledge of the anatomy and physiology of the human body, individual organs, familiarize with the structure of tissues and basic anatomical and functional units. Student will recognise the functions of tissues, organs and also the regulatory, coordination and integration relationships between them. At the same time, the student acquires basic knowledge from general pathology about cellular damage, regressive, metabolic and progressive changes at the level of the cell and subcellular structures, tissues and Etiopathogenesis, and manifestations of pathological changes at the organ level.	
Class syllabus: Human body – organization and structure, anatomical terminology. Structure of the human body – topography of organ systems, specific areas, relationship to function. Basic building and functional units of systems. Organization, functional anatomy of the organs of the individual systems. Etiopathogenesis of cellular damage, regressive, metabolic and progressive changes, inflammation, local disturbances of blood circulation and lymph. Metabolic disorders of proteins, fats, carbohydrates. Fluid, electrolyte, and acid-base balance. Vitamins and minerals. Developmental changes, structural damages, and functional disturbances typical and most frequently occurred disorders in the individual organs of individual systems of the body – nervous, cardiovascular plus blood, endocrine, immune, respiratory, digestive, urogenital, sensory, integumentary and musculo-skeletal systems.	

Practical training is focused on histology and functional morphology of cells, nervous and muscular tissues, structure and function of sensory organs, blood analysis, blood pressure measurements, ECG characteristics, composition of body fluids, functional measurements of lungs, determination of glycemia and cholesterol and rational nutrition.

Recommended literature:

Vander`s Human Physiology 12th Ed, McGraw/Hill, Ed., NY, by EP Widmaier, H Raff, KT Strang, 2011, ISBN 978/0/07/122215/0

Essentials of Human Physiology for Pharmacy, CEC Press, 2008, by LK McCorry (e-version)
Textbook of pathology, 7th edition, by H. Mohan. Ed. Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, India, 2014, ISBN 978-9351523697

Essentials of Pathophysiology, 3rd edition, by C.M. Porth. Ed. Lippincott and Wilkins: Philadelphia, 2011, ISBN 0781770874

General and Systemic Pathology, 4th edition, by J.C.E. Underwood. Ed. Churchill Livingstone: NY, 2004 ISBN 0443073341/9780443073342

Essentials of Pathophysiology for Pharmacy, 1st edition, MM Zdanovicz, CRC Press, 2002, by ISBN 781587160363 (e-version)

Pathophysiology, by I Hulín, Bratislava: Slovak Academic Press, 1997, ISBN 80-85665-90-5
Lecture and exercise handouts will be available in Moodle's online system 2220,2021.

Languages necessary to complete the course:

Slovak

Notes:

New subject was introduced in summer course 2020

Past grade distribution

Total number of evaluated students: 383

Hodnotenie predmetu sa zobrazí až v prípade zaradenia predmetu do nejakého študijného plánu.

Lecturers: doc. MUDr. Tatiana Stankovičová, CSc., doc. PharmDr. Anna Paul Hrabovská, PhD., PharmDr. Tomáš Rajtík, PhD., PharmDr. Zuzana Kiliánová, PhD., prof. PharmDr. Ján Klimas, PhD., MPH, Mgr. Ondrej Sprušanský, PhD., PharmDr. Stanislava Kosírová, PhD., PharmDr. Tatiana Foltánová, PhD., PharmDr. Eva Kráľová, PhD., Mgr. Lenka Bies Piváčková, PhD., PharmDr. Katarína Buzgóová, PhD., PharmDr. Attila Kulcsár, PhD., PharmDr. Dominika Dingová, PhD.

Last change: 13.12.2021

Approved by: doc. MUDr. Tatiana Stankovičová, CSc.