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COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/UDVPd/16	Course name: Active participation in domestic scientific events (Article in proceedings, extended abstract, abstract, first-authorshi
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 6	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 132	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/UZVPd/16	Course name: Active participation in international scientific events
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 84	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/AMB-KBd/09	Course name: Analytical Methods in Biochemistry
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: x	
Learning outcomes: x	
Brief outline of the course: x	
Recommended literature: Lottspeich F., Engels J.W.: Bioanalytics: Analytical Methods and Concepts in Biochemistry and Molecular Biology, Wiley, 2019 Locatelli M, Celia Ch.: Analytical Chemistry, NOVA, 2017 Hudák S. a kol.: Analytická chémia pre farmaceutov, 2019 Aktuálne vedecké a odborné publikácie	
Course language: english	
Notes: x	
Course assessment Total number of assessed students: 18	
Ne	Pr
0.0	100.0
Provides: doc. RNDr. Vladimíra Tomečková, PhD., prof. Ing. Mária Mareková, CSc., doc. Ing. Katarína Dubayová, PhD.	
Date of last modification: 31.08.2021	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/BNK-KBd/09	Course name: Analytical Methods in Biochemistry
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: seminars, practical exercises, solving of assigned tasks, exam; more details: https://www.upjs.sk/public/media/25151/Doct_Requir_Bioch%20of%20NAs.pdf	
Learning outcomes: The graduate masters the theoretical and practical foundations of laboratory methods used in the study of nucleic acids (NA) and knows the current possibilities of gene therapy. Students are aware of the latest trends in the study of RNA molecules, including non-coding RNAs, which are increasingly contributing to the improvement of laboratory diagnostics of pathological conditions at the molecular level. The graduate is oriented in the possibilities of using NA for diagnostic and prognostic purposes, as molecular methods are becoming an essential part in the study of biochemical processes and in clinical-biochemical diagnostics.	
Brief outline of the course: DNA replication. Transcription. Proteosynthesis. Regulation of gene expression. Non-coding RNA. Isolation of NK from biological material. Molecular-biochemical methods (eg PCR, sequencing, hybridization). Basics of genetic material analysis. Use of special analyzes. The latest trends in medical laboratory diagnostics. More details: https://www.upjs.sk/public/media/25151/Syllabus_Bioch%20of%20NAs_Doct.pdf	
Recommended literature: Blanco G., Blanco A.: Medical Biochemistry, Academic Press, 2017 Waye M.M.Y.: Biochemistry and Molecular Biology, Nova Science Publishers Inc., 2015 Nussbaum R.L. et al.: Genetics in Medicine, Elsevier, 2015 Strachan T. et al.: Genetics and Genomics in Medicine, GS, 2014 Hunter B.D.: Molecular Genetics and Personalized Medicine, Humana Press Inc., 2014 Current scientific and professional publications	
Course language: english	
Notes: x	

Course assessment	
Total number of assessed students: 8	
Ne	Pr
0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc., doc. RNDr. Miroslava Rabajdová, PhD., doc. Ing. Katarína Dubayová, PhD.	
Date of last modification: 30.08.2021	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SAUPTd/16	Course name: Authorship and co-authorship of teaching aids and texts
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 6	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 5	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UPF/ ZVPd/16	Course name: Basics of Scientific Work in Medicine
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 1 Per study period: 14 Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 95	
Ne	Pr
0.0	100.0
Provides: doc. MUDr. Roman Beňačka, CSc., mim.prof., prof. Mgr. Andrea Madarasová Gecková, PhD., MUDr. Jaroslav Rosenberger, PhD., MUDr. Martin Javorský, PhD., Mgr. Peter Kolarčík, PhD., doc. Mgr. Zuzana Dankulincová, PhD.	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/CITd/16	Course name: Citation of a paper (in domestic, international journals or SCI)
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 2	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 51	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/RGPd/16	Course name: Co-investigator in a funded project (grant)
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 157	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/UEVPd/16	Course name: Completion of defined stages of scientific work
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 86	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/LPCd/16	Course name: Curative and preventive healthcare activity (per semester)
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 82	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/ODZP/05		Course name: Defence of Doctoral Thesis	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS credits: 0			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisites:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 265			
NNe	NU	NeO	O
0.0	2.26	0.0	97.74
Provides:			
Date of last modification:			
Approved:			

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/DZS/05	Course name: Dissertation examination
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 0	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 493	
N	P
0.2	99.8
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: CJP/ LFAJD/05	Course name: English Language for PhD Students of Faculty of Medicine
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 301	
Ne	Pr
0.0	100.0
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.	
Date of last modification: 08.02.2021	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/ZBV-KBd/12	Course name: Fundamentals of Biochemistry Nutrition
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites: ULCHBKB/LB-KBd/09	
Conditions for course completion: seminars, solving of assigned tasks, exam; more details: https://www.upjs.sk/public/media/25151/Doct_Requir_Nutrition.pdf	
Learning outcomes: The graduate will gain knowledge and will understand of human nutrition, including the importance of nutrition in disease prevention. He knows the process of digestion and resorption of essential nutrients, the importance of ballast substances in nutrition and the nutritional value of food. Students will get acquainted with the basics of proper nutrition, the specifics of artificial nutrition and alternative forms of diet. Graduates know the influence of nutrition on the emergence of diseases of civilization and get acquainted with nutrigenomics.	
Brief outline of the course: Introduction to human nutrition. Digestion, resorption and metabolism of essential nutrients. Ballast substances in nutrition and their relation to the intestinal microbiome. Nutritional value of food. Healthy nutrition and its contribution to reducing the risk of disease. The influence of nutrition on the emergence of diseases of civilization. Specifics of artificial nutrition and alternative forms of diet. Technological food processing. Nutrigenomics. More details: https://www.upjs.sk/public/media/25151/Syllabus_Nutrition_Doct.pdf	
Recommended literature: Cox Ch.L.: Nutritional Biochemistry, CRC Press, 2015 Current scientific and professional publications	
Course language: english	
Notes: x	

Course assessment	
Total number of assessed students: 6	
Ne	Pr
0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc., doc. Ing. Katarína Dubayová, PhD.	
Date of last modification: 20.08.2021	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/GLFd/16	Course name: Grant award for young scientists (medical school)
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 5	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/ISLd/16	Course name: Individual study of scientific literature
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 1	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 191	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/VMKB-KBd/09	Course name: Laboratory Diagnostic Methods in Clinical Biochemistry
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites: ULCHBKB/LB-KBd/09	
Conditions for course completion: practical exercises, seminars, solving of assigned tasks, exam; more details: https://www.upjs.sk/public/media/25151/Doct_Requir_Methods%20in%20Clin%20Bioch.pdf	
Learning outcomes: The graduates will gain theoretical and practical knowledge about the correct collection and processing of biological material. They know the basic laboratory methods used in the analysis of biological samples. They will get acquainted with the work in the clinical-biochemical laboratory and the used instrumentation (including automation and control) and will be able to apply the results obtained by clinical-biochemical examination in the diagnosis of diseases.	
Brief outline of the course: Introduction to clinical biochemistry. Collection of biological material and interpretation of results (physiological and pathophysiological values). Basic laboratory parameters in emergency medicine. Diabetes mellitus. Biochemical examinations in liver diseases. Kidneys. Inflammatory markers. Cardiac markers. Blood count. Coagulation examinations. Bone metabolism - markers of bone metabolism. Specialized investigation procedures. Automation and robotization in clinical-biochemical diagnostics. More details: https://www.upjs.sk/public/media/25151/Syllabus_Methods%20in%20Clin%20Bioch_Doct.pdf	
Recommended literature: Shweta Pandey et al.: Protocols in Biochemistry and Clinical Biochemistry, 2020 Marshall W.: Clinical Biochemistry: Metabolic and Clinical Aspects, Elsevier, 2014 Swaminathan R.: Handbook of Clinical Biochemistry, World Scientific Publishing Co Pte, 2011 McPherson R.A., Pincus M.R.: Henry's Clinical Diagnosis and Management by Laboratory Methods, Elsevier, 2011 Current scientific and professional publications	
Course language: english	
Notes: x	

Course assessment	
Total number of assessed students: 26	
Ne	Pr
0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc., doc. RNDr. Miroslava Rabajdová, PhD., MUDr. Eva Ďurovcová, PhD.	
Date of last modification: 30.08.2021	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/PSPd/16	Course name: Lecture at a professional seminar at the workplace
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 3	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 41	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/LB-KBd/09	Course name: Medical Biochemistry
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: x	
Learning outcomes: The graduate knows the functions of living organisms at the cellular level and the laws of regulation of biochemical processes in living systems. Knows the laws and mechanism of metabolism of essential nutrients (eg carbohydrates, lipids, proteins, NA) taking place in the human body. Can apply the acquired knowledge in various metabolic disorders, formulate conclusions and recommendations for clinical-biochemical diagnostics.	
Brief outline of the course: Enzymes and possibilities of their use in clinical-biochemical practice. Biochemical processes taking place at the cellular level (eg energy, metabolism, pathobiochemistry). Biochemistry of organs and tissues. Principles of regulation (eg hormones, gene expression). Biochemistry of body fluids and possibilities of their diagnostic use (eg acid-base regulation). Biochemical aspects of nutrition. Basics of drug chemistry and xenobiochemistry. More details: https://www.upjs.sk/public/media/25151/Syllabus_Medic%20Biochem_Doct.pdf	
Recommended literature: Devlin T.M.: Textbook of Biochemistry, Willey, 2013 Murray R.K a kol.: Harper's Biochemistry, LANGE, 2012 Vasudevan D.M. a kol.: Textbook of Biochemistry for Medical Students, JAYPEE, 2011 Aktuálne vedecké a odborné publikácie	
Course language: english	
Notes: x	

Course assessment	
Total number of assessed students: 28	
Ne	Pr
0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc., doc. RNDr. Marek Stupák, PhD.	
Date of last modification: 31.08.2021	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/LCH-KBd/09	Course name: Medical Chemistry
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: seminars, solving of assigned tasks, exam; more details: https://www.upjs.sk/public/media/25151/Doct_Requir_Med%20Chem.pdf	
Learning outcomes: Graduates will reveal the basics of bioenergetics and kinetics of biological processes. They will get acquainted with the chemistry of colloidal systems and the function of semipermeable membranes in living systems. Graduates will know the importance, possibilities of use and mechanism of action of selected organic and bioorganic compounds, including toxic substances, selected medicaments and drugs.	
Brief outline of the course: Chemistry of colloidal systems. Bioenergetics and kinetics of biological processes. Semipermeable membrans in living systems. Coordination compounds. Organic and bioorganic compounds and their significance in medicine. Toxic substances. More details: https://www.upjs.sk/public/media/25151/Syllabus_Med%20Chemisty_Doket.pdf	
Recommended literature: Lemke T. L. a kol.: Foye´s Principles of Medicinal Chemistry, Lippincott Wiliams Wilkins, 2013 Timberlake, K.C.: Chemistry, Pearson Education, 2009 Current scientific publications	
Course language: english	
Notes:	
Course assessment Total number of assessed students: 23	
Ne	Pr
0.0	100.0
Provides: doc. RNDr. Marek Stupák, PhD., prof. Ing. Mária Mareková, CSc.	

Date of last modification: 20.08.2021
Approved:

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UPZ/ MS-ANATd/09	Course name: Methodology and statistics
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 1 Per study period: 14 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 8	
Ne	Pr
12.5	87.5
Provides: prof. Mgr. Andrea Madarasová Gecková, PhD., Mgr. Peter Kolarčík, PhD., Mgr. Daniela Filáková, PhD., doc. Mgr. Zuzana Dankulincová, PhD.	
Date of last modification: 03.05.2015	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/ICd/16	Course name: Other activities (eg. member of the organizing committee of a conference)
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 6	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 46	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/PB-KBd/09	Course name: Pathobiochemistry
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites: ULCHBKB/LB-KBd/09	
Conditions for course completion: seminars, solving of assigned tasks, exam; more details: https://www.upjs.sk/public/media/25151/Doct_Requir_Pathobioch.pdf	
Learning outcomes: The absolvent has knowledge of basic pathobiochemical processes, including changes in biochemical processes in metabolic disorders and diseases of individual organs and tissues. The graduate is able to apply the knowledge of the study of pathobiochemical processes in the design of clinical-biochemical examinations, necessary for proper clinical diagnosis.	
Brief outline of the course: Metabolic and regulatory disorders (eg carbohydrates, lipids, amino acids, plasma proteins, porphyrins). Disorders of water and electrolyte balance. Acid-base balance. Digestive and resorption disorders. Disorders of the function of individual organs (eg liver, kidneys). More details: https://www.upjs.sk/public/media/25151/Syllabus_Pathobiochem_Doct.pdf	
Recommended literature: Oohashi T. et al.: Human Pathobiochemistry, Springer, 2019 Mandl J., Machovich: Medical Pathobiochemistry, Diderot, 2014 Chakraborti S.: Proteases in Health and Disease, Springer, 2013 Newsholme E., Leech T.: Functional Biochemistry in Health and Disease, Wiley, 2010 Current scientific and professional publications	
Course language: english	
Notes: x	

Course assessment	
Total number of assessed students: 11	
Ne	Pr
0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc., MUDr. Eva Ďurovcová, PhD., doc. Ing. Katarína Dubayová, PhD.	
Date of last modification: 20.08.2021	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UPF/ PF-KBd/09	Course name: Pathological Physiology
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 3 Per study period: 42 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 0	
Ne	Pr
0.0	0.0
Provides: doc. MUDr. Roman Beňačka, CSc., mim.prof., doc. MUDr. Oliver Rác, CSc.	
Date of last modification: 03.05.2015	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/PDSd/16	Course name: Preparation of the thesis for dissertation examination
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 20	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 46	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/CKVPd/16	Course name: Presentation at the national conference of young scientists
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 3	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/SID-KBd/09	Course name: Processing and interpretation of measured data in clinical practice
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites: ULCHBKB/VMKB-KBd/09	
Conditions for course completion: seminars, solving of assigned tasks, exam; more details: https://www.upjs.sk/public/media/25151/Doct_Requir_Data%20processing.pdf	
Learning outcomes: The graduate masters the basic statistical methods used in clinical biochemistry. They can correctly apply the acquired knowledge, e.g. test results in the diagnosis and treatment of various diseases and knows the factors influencing the result and interpretation of biochemical examination.	
Brief outline of the course: Laboratory tests. Statistical analysis. Descriptive statistical analysis. Statistical evaluation and data processing. Statistical testing. Clinical effectiveness of diagnostic test. Statistical testing. More details: https://www.upjs.sk/public/media/25151/Syllabus_Data%20processing_Doct.pdf	
Recommended literature: Fang J.: Statistical Methods for Biomedical Research, World Scientific Pub Co Pte, 2021 Faltin F.: Statistical Methods in Healthcare, Willey, 2012 McPherson R.A., Pincus M.R.: Henry's Clinical Diagnosis and Management by Laboratory Methods, Elsevier, 2011 Current scientific and professional publications	
Course language: english	
Notes: x	
Course assessment Total number of assessed students: 5	
Ne	Pr
0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc.	

Date of last modification: 25.08.2021
Approved:

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULBF/PAKV-KBd/12	Course name: Proteomic Analysis of Clinical Samples
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 1 Per study period: 14 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites: ULCHBKB/LB-KBd/09	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 2	
Ne	Pr
0.0	100.0
Provides: doc. RNDr. Ján Sabo, CSc., mim.prof., RNDr. Ivan Talian, PhD.	
Date of last modification: 03.05.2015	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/PDRCd/16	Course name: Publication in domestic peer-reviewed journals
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 133	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/PZRCd/16	Course name: Publication in international peer-reviewed journals
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 20	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 111	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/PDPd/16	Course name: Review of a student thesis
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 4	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 12	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UPZ/ VKMP-EPIDd/14	Course name: Scientific communication and research projects management
Course type, scope and the method: Course type: Lecture / Seminar Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 40	
Ne	Pr
2.5	97.5
Provides: prof. Mgr. Andrea Madarasová Gecková, PhD., Mgr. Daniela Fiľakovská, PhD., Ing. Ivana Borysová, Mgr. Peter Kolarčík, PhD., Ing. Lucia Bosáková, PhD., doc. Mgr. Zuzana Dankulincová, PhD., MUDr. Jaroslav Rosenberger, PhD.	
Date of last modification: 03.05.2015	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: UFZ/ VKFP-KBd/12	Course name: Selected Chapters from Clinical Physiology and Pathophysiology
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 0	
Ne	Pr
0.0	0.0
Provides: doc. MUDr. Roman Beňačka, CSc., mim.prof., doc. MUDr. Oliver Rácz, CSc., MVDr. Eva Lovásová, PhD., MUDr. Eva Sedláková, PhD.	
Date of last modification: 03.05.2015	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/ZSPd/16	Course name: Study stay abroad
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 20	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 22	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/DSPd/16	Course name: Study stay domestic
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 10	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/ODPd/16	Course name: Submission of dissertation thesis for defense
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 30	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 33	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/ZPBSd/16	Course name: Supervision of the final thesis of bachelor studies
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 2	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/SVOCd/16	Course name: Supervision of undergraduate student research (ŠVOČ)
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 12	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 5	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: Dek. LF UPJŠ/PCDd/16	Course name: Teaching activities by PhD students (per semester)
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present	
Number of ECTS credits: 10	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion:	
Learning outcomes:	
Brief outline of the course:	
Recommended literature:	
Course language:	
Notes:	
Course assessment Total number of assessed students: 211	
abs	neabs
100.0	0.0
Provides:	
Date of last modification:	
Approved:	

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Medicine	
Course ID: ULCHBKB/VIDB-KBd/09	Course name: Usage of the Internet Databases in Biochemistry
Course type, scope and the method: Course type: Seminar Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	
Number of ECTS credits: 5	
Recommended semester/trimester of the course:	
Course level: III.	
Prerequisites:	
Conditions for course completion: seminars, solving of assigned tasks, exam; more details: https://www.upjs.sk/public/media/25151/Doct_Requir_Internet%20database.pdf	
Learning outcomes: The graduate knows internet databases usable in biochemistry, can work with them and use them in scientific research.	
Brief outline of the course: Universal databases. Databases based on NA data records. NA sequence databases. Protein sequence databases. Databases functional. Domain databases. Special purpose databases. More details: https://www.upjs.sk/public/media/25151/Syllabus_Internet%20database_Doct.pdf	
Recommended literature: internet, current scientific and professional publications	
Course language: english	
Notes: x	
Course assessment Total number of assessed students: 8	
Ne	Pr
0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc.	
Date of last modification: 20.08.2021	
Approved:	