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University: P. J. Šafárik University in Košice			
Faculty: Faculty of M	Faculty: Faculty of Medicine		
Course ID: Dek. LF UPJŠ/APV-DK +Z/22	Course name: Active presentation of results at a national conference withKInternational participation		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cro	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: Active presentation of results at a national conference with international participation. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By actively participating in a scientific conference, the doctoral student demonstrates a high level of knowledge and ability to identify, evaluate, correctly apply scientific knowledge and research methods. Demonstrates competence to use existing knowledge and generate new original scientific knowledge that he can critically analyse and communicate to a wider audience by adequate means (e.g. lecture, poster).			
Brief outline of the course:			
Recommended litera	Recommended literature:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 110			
abs neabs			
	100.0 0.0		
Provides:			
Date of last modifica	Date of last modification: 23.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Safarik University in Kosice		
Faculty: Faculty of Medicine		
Course ID: Dek. LF UPJŠ/APV-MK/22Course name: Active presentation of results at an international conference 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: 10		
Recommended semester/trimester of the cours	e:	
Course level: III.		
Prerequisities:		
Conditions for course completion: Active presentation of results at an international conference abroad. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).		
Learning outcomes: By actively participating in a scientific conference, the doctoral student demonstrates a high level of knowledge and ability to identify, evaluate, correctly apply scientific knowledge and research methods. Demonstrates competence to use existing knowledge and generate new original scientific knowledge that he can critically analyse and communicate to a wider audience by adequate means (e.g. lecture, poster).		
Brief outline of the course:		
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 69		
abs	neabs	
100.0 0.0		
Provides:		
Date of last modification: 23.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		
-		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: Dek. LF Course name: Active presentation of results at the national conference UPJŠ/APV-DK/22		
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.		
Prerequisities:		
Conditions for course completion: Active presentation of results at the national conference. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).		
Learning outcomes: By actively participating in a scientific conference, the doctoral student demonstrates a high level of knowledge and ability to identify, evaluate, correctly apply scientific knowledge and research methods. Demonstrates competence to use existing knowledge and generate new original scientific knowledge that he can critically analyse and communicate to a wider audience by adequate means (e.g. lecture, poster).		
Brief outline of the course:		
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 84		
abs neabs		
100.0 0.0		
Provides:		
Date of last modification: 23.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafán	University: P. J. Šafárik University in Košice		
Faculty: Faculty of M	ſedicine		
Course ID: ULCHBKB/ AMB/22	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 cro	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Conditions for course completion: seminars, practical exercises, solving of assigned tasks, exam; more details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/ education/subjects/doctoral-study/			
Learning outcomes: Students will master the analytical methods used in laboratories with a focus on application in clinical-biochemical diagnostics both theoretically and practically. They can analyze biological material (eg body fluids) using laboratory analytical techniques (eg spectrophotometry, fluorescence analysis chromatography electrophoresis)			
Brief outline of the course: Laboratory techniques. Optical methods. Insulation techniques. Electrophoretic techniques. Physico-chemical methods of separation and detection of substances. Immunoanalytical methods. More details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical- biochemistry/education/subjects/doctoral-study/			
Recommended literature: Lottspeich F., Engels J.W.:Bioanalytics: Analytical Methods and Concepts in Biochemistry and Molecular Biology, Willey, 2019 Locatelli M, Celia Ch.:Analytical Chemistry, NOVA, 2017 Current scientific and professional publications			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 18			
	Ne	Pr	
	0.0	100.0	

Provides: doc. Ing. Katarína Dubayová, PhD., doc. RNDr. Vladimíra Tomečková, PhD., univerzitná profesorka, prof. Ing. Mária Mareková, CSc.

Date of last modification: 17.02.2023

Approved: prof. Ing. Mária Mareková, CSc.

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: ULCHBKB/BNK/22	Course name: Analytical Methods in Biochemistry	
Course type, scope a Course type: Semin Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ar rse-load (hours): dy period: 28 esent	
Number of ECTS cr	edits: 5	
Recommended seme	ster/trimester of the course:	
Course level: III.		
Prerequisities:		
Conditions for courses seminars, practica details: https://www.education/subjects/do	e completion: al exercises, solving of assigned tasks, exam; more w.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/ petoral-study/	
The graduate masters study of nucleic acid aware of the latest tre increasingly contribu at the molecular leve and prognostic purpo biochemical processe	s the theoretical and practical foundations of laboratory methods used in the ds (NA) and knows the current possibilities of gene therapy. Students are ends in the study of RNA molecules, including non-coding RNAs, which are ting to the improvement of laboratory diagnostics of pathological conditions el. The graduate is oriented in the possibilities of using NA for diagnostic oses, as molecular methods are becoming an essential part in the study of es 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/lekarska-fakulta/en/department/ medical-and-clinical-biochemistry/education/subjects/doctoral-study/		
Recommended litera Blanco G., Blanco A. and Molecular Biolog in Medicine, Elsevier Hunter B.D.: Molecu scientific and profess	Ature: .: Medical Biochemistry, Academic Press, 2017 Waye M.M.Y.: Biochemistry gy, Nova Science Publishers Inc., 2015 Nussbaum R.L. et al.: Genetics ; 2015 Strachan T. et al.: Genetics and Genomics in Medicine, GS, 2014 lar Genetics and Personalized Medicine, Humana Press Inc., 2014 Current ional publications	
Course language: english, slovak		
Notes:		

Course assessment		
Total number of assessed students: 13		
Ne	Pr	
0.0	100.0	
Provides: prof. Ing. Mária Mareková, CSc., doc. RNDr. Miroslava Rabajdová, PhD., univerzitná profesorka		
Date of last modification: 17.02.2023		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine			
Course ID: ULCHBKB/BV- VKd/22	Course name: Biochemistry of nutrition – selected chapters		
Course type, scope a Course type: Semin Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ar rse-load (hours): dy period: 28 esent		
Number of ECTS cro	edits: 5		
Recommended seme	ster/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cours seminars, solving of department/medical-a	e completion: assigned tasks, exam; more details: https://www.upjs.sk/lekarska-fakulta/en/ and-clinical-biochemistry/education/subjects/doctoral-study/		
Learning outcomes: The graduate will gain of nutrition in diseas nutrients, the important will get acquainted we alternative forms of co of civilization and get	h knowledge and will understand of human nutrition, including the importance e prevention. He knows the process of digestion and resorption of essential nce of ballast substances in nutrition and the nutritional value of food. Students with the basics of proper nutrition, the specifics of artificial nutrition and liet. Graduates know the influence of nutrition on the emergence of diseases t 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/lekarska-fakulta/en/department/medical-and-clinical- biochemistry/education/subjects/doctoral-study/			
Recommended litera Cox Ch.L.: Nutritiona Current scientific and	al Biochemistry, CRC Press, 2015 I professional publications		
Course language: english, slovak			
Notes:			

Course assessment		
Total number of assessed students: 1		
Ne Pr		
0.0	100.0	
Provides: doc. Ing. Katarína Dubayová, PhD.		
Date of last modification: 17.02.2023		
Approved: prof. Ing. Mária Mareková, CSc.		

Faculty: Faculty of Medicine		
Faculty of Medicine		
Course ID: Dek. LF Course name: Co-solver of a national project (VEGA, KEGA, APVV) UPJŠ/G-DP/22		
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.		
Prerequisities:		
Co-solver of a national project (VEGA, KEGA, APVV). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).		
Learning outcomes: The doctoral student, as a co-investigator, participates in the solution of projects within the team cooperation, he is responsible for partial tasks in the solution of which he participates under the guidance of his supervisor.		
Brief outline of the course:		
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 107		
abs neabs		
100.0 0.0		
Provides:		
Date of last modification: 23.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P I Šafá	rik University in Koši		
Faculty: Faculty of Medicine			
Course ID: Dek. LF Course name: Co-solver of an international project			
Course type:			
Recommended course-load (hours): Per week: Per study period:			
Number of ECTS cr	edits: 15		
Recommended seme	ster/trimester of the	course:	
Course level: III.			
Prerequisities:			
Co-solver of an intern The doctoral student relevantly documente Learning outcomes: The doctoral student cooperation, he is res guidance of his super	hational project. t states the activity i ed (e.g. publication, pr , as a co-investigator, sponsible for partial t visor.	in the doctoral annual report and these activities are rogram). participates in the solution of projects within the team asks in the solution of which he participates under the	
Brief outline of the c	Brief outline of the course:		
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 15			
	abs	neabs	
	100.0	0.0	
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CS	c	

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/G-UPJS- SR/22	Course name: Co-solver of internal grant (VVGS)		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Recommended seme	ster/trimester of the cours		
Course level: III.			
Prerequisities:			
Co-solver of internal grant (VVGS). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: The doctoral student, as a co-investigator, participates in the solution of projects within the team cooperation, he is responsible for partial tasks in the solution of which he participates under the guidance of his supervisor.			
Brief outline of the c	Brief outline of the course:		
Recommended litera	Recommended literature:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 16			
abs neabs			
	100.0 0.0		
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF Course ID: Dek. LF	Course ID: Dek. LF Course name: Consultation of ŠVOČ JPJŠ/V-SVOC/22		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS credits:	8		
Recommended semester/t	rimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: It concerns professional and consulting work in the management of students, by which the doctoral student demonstrates the ability to use and pass on the acquired scientific knowledge and skills acquired through studies in the relevant field of study / study program.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 11			
abs neabs			
100.0 0.0		0.0	
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária	Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J.	Šafárik University in Košice	

Faculty: Faculty of Medicine

Course ID: Dek. LF	Course name: Defence of Doctoral Thesis
UPJŠ/ODZ/05	

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.

Prerequisities:

Conditions for course completion:

All information about the doctoral study is specified on the faculty's website in the Doctoral Study section, including the conditions of completion, which are detailed in the State Examinations section. Students will find here all the necessary information, forms and documents, including information on the formal side of the dissertation, which are in accordance with Directive No. 1/2011 on the basic requirements of final theses and the PhD Study Regulations at UPJŠ in Košice. The submitted work must be in accordance with the Rector's Decision No. 5/2021, issuing the principles of good practice of scientific publication at UPJŠ in Košice and its parts, Rector's Decision No. 21/2021, on issuing rules for the assessment of plagiarism at UPJŠ in Košice and its parts, Rector's Decision No. 2/2022 which issues the principles of good research practice at UPJŠ in Košice and its parts.

Learning outcomes:

The dissertation has the character of a scientific work and the student demonstrates by this work extensive mastery of the theory and professional terminology from the field of study/study program, acquisition of knowledge, skills and competencies in accordance with the declared profile of the graduate, as well as the ability to apply them in an original way. The student demonstrates the ability of independent scientific work in terms of content, formal and ethical, ant the ability to present and critically analyses obtained results.

Brief outline of the course:

Recommended literature:

Course language:

english, slovak

Notes:

Course assessment

Total number of assessed students: 395

N	NNe	NU	NeO	0	Р
0.0	0.0	1.52	0.0	86.58	11.9

Provides:

Date of last modification: 23.03.2022

Approved: prof. Ing. Mária Mareková, CSc.

University: P. J. Šafán	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/DZS/05	Durse ID: Dek. LF Course name: Dissertation examination PJŠ/DZS/05 Course name: Dissertation examination		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cro	edits: 15		
Recommended seme	ster/trimester of the co	urse:	
Course level: III.			
Prerequisities:			
prescribed composition of subjects and the acquisition of at least 90 credits in the external form, if the study in the four-year form and five-year in the external form. The committee decides on the result of the examination in a non-public meeting by a majority of the members present. In the event of equality of votes, the vote of the President shall prevail.			
Brief outline of the c	Brief outline of the course:		
Recommended litera	ture:		
Course language: english, slovak			
Notes:	Notes:		
Course assessment Total number of assessed students: 634			
	Ν	Р	
	0.16 99.84		
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

INFORMATION I FTTFD

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of N	Aedicine
Course ID: CJP/ LFAJD/05	Course name: English Language for PhD Students of Faculty of Medicine
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	and the method: ce rse-load (hours): idy period: 28 esent
Number of ECTS cr	edits: 10
Recommended seme	ester/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours completion of e-cou assignments - Profess	se completion: urse English for PhD Students (lms.upjs.sk), consultations (1-3), written sional/Academic CV, Short Academic Biography, test, oral exam
The development of a of their linguistic co syntactic aspects; dev purposeful communi- purposes, level B2.	students' language skills - reading, writing, listening, speaking; improvement ompetence - students gain knowledge of selected phonological, lexical and velopment of pragmatic competence - students acquire skills for effective and cation, with focus on Academic English and English for specific/professional
Brief outline of the c Specific aspects of vocabulary developm Selected aspects of Features of academic skills. Selected function and-effect relationship	spoken and written academic and professional language, with a focus on nent (formal phrases, noun and verb collocations, prepositional phrases, etc.). grammar, including complex prepositions, verb tenses, and passive voice. c writing, such as text cohesion and coherence, hedging, and other essential ional grammar for academic contexts, focusing on expressing opinions, cause- ips, arguments, and examples. Communication skills in academic settings.
Recommended litera Moore, J.: Oxford Ac Kolaříková, Z., Petru UPJŠ Košice, 2021. Tomaščíková, S., Ro Vydavateľstvo Šafári MaCarthy M. O'Do	ature: cademic Vocabulary Practice. OUP, 2017. nňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). zenfeld, J. Developing Academic English in Speaking and Writing.

Course language:

English language, level B2, C1 according to CEFR

Notes:		
Course assessment Total number of assessed students: 448		
Ne	Pr	
0.0	100.0	
Provides: Mgr. Zuzana Kolaříková, PhD., Mgr. Ivana Kupková, PhD.		
Date of last modification: 05.12.2024		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/ISL/22	Course ID: Dek. LF 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 cro	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
The evaluation is carried out by the supervisor based on knowledge of the Ph.D. presented on seminars at the department/clinic. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 198			
	abs	neabs	
100.0 0.0		0.0	
Provides:	Provides:		
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			
Approveu: pror. mg.			

University: P. J. Safárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: Dek. LF Course name: Internship UPJŠ/AZSPn/22	abroad - more than 30 days	
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 cour	se:	
Course level: III.		
Prerequisities:		
Internship abroad - more than 30 days. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).		
Ph.D. student has to present specific results which bring benefits for preparation of dissertation thesis on seminar or an overview of the acquired methodological, professional knowledge.		
Brief outline of the course:		
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 8		
abs	neabs	
100.0 0.0		
Provides:		
Date of last modification: 23.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		

~		
University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: Dek. LF UPJŠ/AZSPd/22	Irse ID: Dek. LF Course name: Internship abroad - of less than 30 days JŠ/AZSPd/22 INTERNATIONAL STREET	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present		
Number of ECTS cro	edits: 5	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Internship abroad - of less than 30 days. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).		
thesis on seminar or an overview of the acquired methodological, professional knowledge.		
Brief outline of the c	ourse:	
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 32		
	abs	neabs
100.0 0.0		
Provides:		
Date of last modification: 23.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of N	Iedicine
Course ID: ULCHBKB/ VMKB/22	Course name: Laboratory Diagnostic Methods in Clinical Biochemistry
Course type, scope a Course type: Semin Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ar rse-load (hours): dy period: 28 esent
Number of ECTS cr	edits: 10
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities: ULCI	IBKB/LB/22
Conditions for cours practical exercise details: https://ww education/subjects/do	e completion: s, seminars, solving of assigned tasks, exam; more w.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/ octoral-study/
Learning outcomes: The graduates will g processing of biologi biological samples. T and the used instrume obtained by clinical-b	gain theoretical and practical knowledge about the correct collection and cal material. They know the basic laboratory methods used in the analysis of 'hey will get acquainted with the work in the clinical-biochemical laboratory entation (including automation and control) and will be able to apply the results biochemical examination in the diagnosis of diseases.
Brief outline of the c Introduction to clin of results (physiolo emergency medicine Inflammatory market metabolism - market and robotization in c fakulta/en/departmen	ourse: ical biochemistry. Collection of biological material and interpretation ogical and pathophysiological values). Basic laboratory parameters in . Diabetes mellitus. Biochemical examinations in liver diseases. Kidneys. ers. Cardiac markers. Blood count. Coagulation examinations. Bone rs of bone metabolism. Specialized investigation procedures. Automation linical-biochemical diagnostics. More details: https://www.upjs.sk/lekarska- t/medical-and-clinical-biochemistry/education/subjects/doctoral-study/
Recommended litera Shweta Pandey et al.: W.: Clinical Biochem Handbook of Clinical Pincus M.R.: Henry's 2011 Current scientif	ture: Protocols in Biochemistry and Clinical Biochemistry, 2020 Marshall histry: Metabolic and Clinical Aspects, Elsevier, 2014 Swaminathan R.: Biochemistry, World Scientific Publishing Co Pte, 2011 McPherson R.A., S Clinical Diagnosis and Management by Laboratory Methods, Elsevier, ic and professional publications
Course language: english, slovak	
Notes:	

Course assessment Total number of assessed students: 7		
Ne	Pr	
0.0	100.0	
Provides: MUDr. Eva Ďurovcová, PhD., prof. Ing. Mária Mareková, CSc., doc. RNDr. Miroslava Rabajdová, PhD., univerzitná profesorka, prof. MUDr. Gabriel Valočik, PhD.		
Date of last modification: 17.02.2023		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/P/22	F Course name: Lecture on research seminar at the department or clinic		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Lecture on research seminar at the department or clinic. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: The doctoral student presents the knowledge gained through individual studies of scientific and professional literature, which he/she can critically evaluate, analyse and subsequently use in his/ her research.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 87			
	abs	neabs	
	100.0	0.0	
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: ULCHBKB/LB/22	Course name: Medical Biochemistry	
Course type, scope an Course type: Semina Recommended cour Per week: 2 Per stud Course method: pres	nd the method: ar se-load (hours): Ay period: 28 sent	
Number of ECTS cre	dits: 10	
Recommended semes	ter/trimester of the course:	
Course level: III.		
Prerequisities:		
Conditions for course seminars, practica details: https://www education/subjects/door	e completion: l exercises, solving of assigned tasks, exam; more v.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/ ctoral-study/	
Learning outcomes: The graduate knows the of biochemical processon of essential nutrients Can apply the acquir recommendations for	the functions of living organisms at the cellular level and the laws of regulation esses in living systems. Knows the laws and mechanism of metabolism (eg carbohydrates, lipids, proteins, NA) taking place in the human body. The knowledge in various metabolic disorders, formulate conclusions and clinical-biochemical diagnostics.	
Brief outline of the co Enzymes and possi processes taking pla Biochemistry of or expression). Biochem acid-base regulation) xenobiochemistry. Mo clinical-biochemistry/	burse: ibilities of their use in clinical-biochemical practice. Biochemical ace at the cellular level (eg energy, metabolism, pathobiochemistry). rgans and tissues. Principles of regulation (eg hormones, gene nistry of body fluids and possibilities of their diagnostic use (eg b). Biochemical aspects of nutrition. Basics of drug chemistry and bre details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and- education/subjects/doctoral-study/	
Recommended literat Devlin T.M.: Textboo LANGE, 2012 Vasude JAYPEE, 2011 Aktuá	ture: k of Biochemistry, Willey, 2013 Murray R.K a kol.: Harper's Biochemistry, evan D.M. a kol.: Textbook of Biochemistry for Medical Students, lne vedecké a odborné publikácie	
Course language: english, slovak		
Notes:		
·		

Course assessment Total number of assessed students: 8		
Ne	Pr	
0.0	100.0	
Provides: doc. RNDr. Marek Stupák, PhD., doc. Ing. Katarína Dubayová, PhD., doc. Mgr. Peter Urban, PhD., prof. Ing. Mária Mareková, CSc.		
Date of last modification: 17.02.2023		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: ULCHBKB/LCH/22	Course name: Medical Ch	emistry
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 cr	edits: 5	
Recommended seme	ester/trimester of the course	2:
Course level: III.		
Prerequisities:		
Conditions for course completion: seminars, solving of assigned tasks, exam; more details: https://www.upjs.sk/lekarska-fakulta/en/ department/medical-and-clinical-biochemistry/education/subjects/doctoral-study/		
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/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/doctoral-study/		
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, slovak		
Notes:		
Course assessment Total number of assessed students: 1		
	Ne	Pr
	0.0	100.0
Provides: prof. Ing. Mária Mareková, CSc., doc. RNDr. Marek Stupák, PhD., doc. RNDr. Vladimíra Tomečková, PhD., univerzitná profesorka, Mgr. Katarína Kalinová, PhD.		
Date of last modification: 17.02.2023		

Approved: prof. Ing. Mária Mareková, CSc.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/G-UPJS- ZR/22	Course name: Obtaining an internal grant UPJŠ (VVGS) or scientific project for young researchers by Faculty of Medicine - as a responsible solver		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: Obtaining an internal grant UPJŠ (VVGS) or scientific project for young researchers by Faculty of Medicine - as a responsible solver. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: As a responsible researcher, the doctoral student is able to specify scientific research activities and problems in the medical fields and is able to design scientific projects, including the development of a written proposal. Respects and implements social and ethical aspects in the planning and implementation of scientific research activities.			
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 7			
	abs neabs		
	100.0	0.0	
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

Faculty: Faculty of Medicine Course ID: Course name: Pathobiochemistry - selected chapters ULCHBKB/		
Course ID: Course name: Pathobiochemistry - selected chapters ULCHBKB/ Image: Pathobiochemistry - selected chapters		
PBCHd/22		
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.		
Prerequisities:		
Conditions for course completion: seminars, practical exercises, solving of assigned tasks, exam; more details: https://www.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/ education/subjects/doctoral-study/		
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/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/doctoral-study/		
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, slovak		
Notes:		

Course assessment		
Ne	Pr	
0.0	100.0	
Provides: MUDr. Eva Ďurovcová, PhD.		
Date of last modification: 17.02.2023		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Ša	arik Universit	y in Ko	šice
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Faculty: Faculty of Medicine

Course ID: Dek. LF **Course name:** Preparation of the thesis for dissertation examination UPJŠ/PDS/16

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.

Prerequisities:

Conditions for course completion:

The dissertation examination is a state examination and is public. The PhD student

submits the application for the dissertation examination through AiS2 in the time up to 24 months from the beginning of the study, depending on the standard length of studies, the PhD student in external form at the latest within three years from the beginning of the studies, the PhD student is obliged to submit, together with the application for the dissertation examination, a written work prepared for the dissertation examination.

All information about the doctoral study is specified on the faculty's website in the Doctoral Study section, including the conditions of completion, which are detailed in the State Examinations section. Students will find here all the necessary information, forms and documents, including information on the formal side of the dissertation, which are in accordance with Directive No. 1/2011 on the basic requirements of final theses and the PhD Study Regulations at UPJŠ in Košice. The submitted work must be in accordance with the Rector's Decision No. 5/2021, issuing the principles of good practice of scientific publication at UPJŠ in Košice and its parts, Rector's Decision No. 21/2021, on issuing rules for the assessment of plagiarism at UPJŠ in Košice and its parts, Rector's Decision No. 2/2022 which issues the principles of good research practice at UPJŠ in Košice and its parts.

Learning outcomes:		
Brief outline of the course:		
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 121		
abs	neabs	
100.0	0.0	
100.0	0.0	

Provides:

Date of last modification: 23.03.2022

Approved: prof. Ing. Mária Mareková, CSc.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/LPC/22	Durse ID: Dek. LF Course name: Prevention and treatment activities (per semester) PJŠ/LPC/22 PJŠ/LPC/22		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the course	e:	
Course level: III.			
Prerequisities:			
Performing medical-preventive activities at the Faculty of Medicine (per semester). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: Doctoral students involved in the treatment and prevention of patients in a hospital or outpatient			
with patients.			
Brief outline of the c	ourse:		
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 237			
	abs	neabs	
	100.0	0.0	
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			
University: P. J. Šafárik University in Košice			
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Faculty: Faculty of Medicine			
Course ID: ULCHBKB/SID/22	Course name: Processing and interpretation of measured data in clinical practice		
Course type, scope a Course type: Semin Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ar rse-load (hours): dy period: 28 esent		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities: ULCI	HBKB/VMKB/22		
Conditions for cours seminars, solving of department/medical-a	e completion: assigned tasks, exam; more and-clinical-biochemistry/ed	details: https://www.upjs.sk/lekarska-fakulta/en/ lucation/subjects/doctoral-study/	
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/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/education/subjects/doctoral-study/			
Recommended literature: Fang J.: Statistical Methods for Biomedical Research, World Scientific Pob 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, slovak			
Notes:			
Course assessment Total number of assessed students: 0			
Ne Pr			
	0.0 0.0		
Provides: prof. Ing. Mária Mareková, CSc.			
Date of last modification: 17.02.2023			

Approved: prof. Ing. Mária Mareková, CSc.

University: P. J. Šafárik University in Košice		
Faculty: Faculty of N	Iedicine	
Course ID: ULBF/ Course name: Proteomic Analysis of Clinical Samples PAKV/22 PAKV/22		
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.		

Prerequisities:

Conditions for course completion:

solving basic tasks, exam

Learning outcomes:

The content and aim of the course is to get acquainted with the workflow of proteomic analysis of clinical samples, including acquaintance with analytical, physico-chemical and biochemical procedures used in clinical sample processing, nano HPLC, basic principles of mass spectrometry and bioinformatics data processing.

Brief outline of the course:

- Preparation of the samples for proteomic analysis
- Separation methods used for the preparation of clinical samples
- Basic terms and principles of mass spectrometers
- Ionization techniques used in mass spectrometers

- Electron ionization, chemical ionization, atmospheric pressure ionization, atmospheric pressure photoionization, matrix laser ionization, electrospray ionization, choice of ionization technique and recording polarity

- Basic types of mass analyzers, high and low resolution, accuracy of m / z determination, quadrupole analyzer, triple quadrupole analyzer, 3D ion trap, linear ion trap, flight time analyzer (TOF), electrostatic orbital trap- Orbitrap, Fourier transform ion cyclotron resonance (FT-ICR), tandem mass spectrometry (MS / MS)

- Combination of mass spectrometry and separation techniques

- Bioinformatics analysis of proteomic data

Recommended literature:

Feist P., Hummon A.B.: Proteomic Challenges: Sample Preparation Techniques for Microgram-Quantity Protein Analysis from Biological Samples, Int. J. Mol. Sci. 2015, 16, 3537-3563; doi:10.3390/ijms16023537, International Journal of Molecular Sciences, ISSN 1422-0067 Twyman R. M.: Principles of Proteomics, ISBN: 9780815344728 2.Edition 2013, Garland Science Sinitcyn P., Rudolph J.D., Cox J., Computational Methods for Understanding Mass Spectrometry–Based Shotgun Proteomics Data, Annual Review of Biomedical Data Science, Vol. 1, pp. 207-234, 2018 Morovič, M., Bioanalytické metódy v medicínskom výskume (časť Proteomika) ISBN 978-80-558-1515-2; p.č. 21407, Nitra 2020

C ourse language: slovak, english		
Notes:		
Course assessment Total number of assessed students: 0		
Ne Pr		
0.0	0.0	
Provides: doc. RNDr. Ján Sabo, CSc., univerzitný profesor, RNDr. Ivan Talian, PhD., RNDr. Miroslav Marcin, PhD., RNDr. Soňa Tkáčiková, PhD., RNDr. Imrich Géci, PhD.		
Date of last modification: 24.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: UPZMV/MVaS/22	Course name: Research Methodology and Statistics		
Course type, scope a Course type: Lectur Recommended cour Per week: 1 / 2 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Seminar Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present		
Number of ECTS cro	edits: 10		
Recommended seme	ster/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cours 1. Online test after ea 2. Problem learning a	e completion: ch lecture fter each block of lectures		
Learning outcomes: Introduction to basi application in biome improving their pract	c methods of epidemiological and clinical studies and mastering their dical research. Gaining theoretical knowledge in biomedical statistics and ical use.		
 Brief outline of the course: First block of lectures / problem learning PU1: research protocol 1. Guide to the course 2. Research process 3. Measurement of impact 4. Study design 5. Validity of the study 			
 Second block of lectures / problem learning PU2: working with statistical software 7. Random variable 8. Hypothesis, testing 9. Introduction to work with statistical software 10. Univariate statistical methods I 11. Univariate statistical methods II Third block of lectures / problem learning PU3: statistical data analysis 12. Linear regression 13. Logistic regression 			
 14. Mutual influences of variables, interaction 16. Randomized controlled trials - implementation 17. Randomized controlled trials - analyzes 18. Sensitivity and specificity Recommended literature:			

Recommended literature:

Achengrau A., Seage G.R.: Essentials of epidemiology in public health. Jones and Bartlet Publishers. 2008

Thompson, B. (2006). Foundations of behavioral statistics. New York, NY: Guilford Press. Kerlinger F.N.: Základy výzkumu chováni Academia 1972

Claus, Ebner: Základy štatistiky pre psychológov, pedagógov a sociológov. Bratislava : SPN, 1988.

Course language: slovak, english		
Notes: combined form of education		
Course assessment Total number of assessed students: 183		
Ne	Pr	
13.11 86.89		
Provides: doc. Mgr. Zuzana Dankulincová, PhD., Mgr. Peter Kolarčik, PhD., prof. Mgr. Andrea Madarasová Gecková, PhD., MUDr. Jaroslav Rosenberger, PhD., doc. RNDr. Daniel Klein, PhD., Mgr. Aurel Zelko, PhD.		

Date of last modification: 13.05.2022

Approved: prof. Ing. Mária Mareková, CSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/O-S-ZC/22	Course name: Responses to the scientific work in which the doctoral student is as a co-author - registered in a foreign scientific journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Responses to the scientific work in which the doctoral student is as a co-author - registered in a national scientific journal. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: Gaining feedback in foreign journals demonstrates a broad and well-founded scientific knowledge at the international level in the field of research.			
Brief outline of the c	ourse:		
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 3			
	abs	neabs	
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafári	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/O-S-DC/22 s	Course name: Responses to the scientific work in which the doctoral student is as a co-author - registered in a national scientific journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cree	dits: 3		
Recommended semest	ter/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Responses to the scientific work in which the doctoral student is as a co-author - registered in a national scientific journal. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: Gaining feedback in domestic journals demonstrates well-founded and accepted scientific			
Brief outline of the co			
Recommended literat			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 0			
abs neabs			
0.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. N	Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/O-S-SCI/ Scopus/22	Course name: Responses to the scientific work in which the doctoral student is as a co-author - registered in databases SCI or Scopus		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Responses to the scientific work in which the doctoral student is as a co-author - registered in databases SCI or Scopus. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: Gaining SCI/Scopus feedback demonstrates broad and well-founded scientific knowledge in the field. At the same time, sitetion is an indexed severe demonstrates the severe time, severe time, sitetion is an indexed severe demonstrates the severe time.			
new knowledge at th research.	e highest expert level and p	oints to the international importance of the cited	
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 26			
abs neabs			
	100.0 0.0		
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/O-1ZC/22	Dek. LFCourse name: Responses to the scientific work in which the doctoralVC/22student is as the 1st author - registered in a foreign scientific journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Responses to the scientific work in which the doctoral student is as the 1st author - registered in a foreign scientific journal. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
at the international le	vel in the field of research.		
Brief outline of the c	ourse:		
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 6			
	abs	neabs	
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/O-1DC/22	Course name: Responses to the scientific work in which the doctoral student is as the 1st author - registered in a national scientific journal		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Responses to the scientific work in which the doctoral student is as the 1st author - registered in a national scientific journal. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: Gaining feedback in domestic journals demonstrates well-founded and accepted scientific			
Brief outling of the c			
Brief outline of the c	Brief outline of the course:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 4			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/O-1SCI/ Scopus/22	Course name: Responses to the scientific work in which the doctoral student is as the 1st author - registered in databases SCI or Scopus		
Stopus 22 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. Prerequisities: Conditions for course completion: Responses to the scientific work in which the doctoral student is as the 1st author - registered in databases SCI or Scopus. The doctoral student states the activity in the doctoral annual report and these activities are relevantly desumented (a c. multiention processor)			
Learning outcomes: Gaining SCI/Scopus feedback demonstrates broad and well-founded scientific knowledge in the field. At the same time, citation in an indexed source demonstrates the competence to communicate new knowledge at the highest expert level and points to the international importance of the cited research.			
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 18			
	abs neabs		
	100.0 0.0		
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/OP-ZP/22	Course name: Review of bachelor thesis		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 3		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: Review of bachelor thesis. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By elaborating the report, the doctoral student demonstrates the ability to use scientific knowledge and experience from scientific research activities in the relevant field of study/study program. It declares the competence that professional problem and its proposal solutions to critically assess, evaluate, or propose other solutions.			
Brief outline of the course:			
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 19			
	abs	neabs	
	100.0 0.0		
Provides:			
Date of last modification: 24.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Medicine				
Course ID: UPZMV/ VKMVP/22	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 cro	edits: 5			
Recommended seme	ster/trimester of the course:			
Course level: III.				
Prerequisities:				
Conditions for cours It is awarded on the problem-based learni	Conditions for course completion: It is awarded on the basis of taking into account recorded lectures and solving assigned tasks in problem-based learning.			
Learning outcomes: Get acquainted with t work.	he principles of scientific communication and develop the skills of scientific			
Brief outline of the c - Research projects, t - Logistics of field da - Legal aspects of me - Ethical aspects of re research projects. - Literature search, w - Structure of scientifi - Presentation of scientific	ourse: heir preparation and management. ta collection. dical research. esearch studies. Ethics Committee Financial and administrative management ork with literary databases, literary review. ic work. Publishing process, communication with scientific journals. ntific results (poster, lecture, press release).			
 Recommended literature: 1. International Committee of Medical Journal Editors: Uniform Requirements for Manuscripts Submitted to Biomedical Journals: Writing and Editing for Biomedical Publication. April 2010, www.icmje.org 2. Jacinto T, et al. How to write a scientific paper - Searching and Managing Biomedical information. Rev Port Pneumol. 2011. doi:10.1016/j.rppneu.2011.05.005 3. Bahna SL, McLarty JW. Data presentation. Ann Allergy Asthma Immunol. 2009 Oct;103(4 Suppl 1):S15-21 4. Azevedo LF et al: How write a scientific paper - Writing the methods section. Revista portuguesa de pneumologia 08/2011; DOI: 10.1016/j.rppneu.2011.06.014 				

Course language:

Slovak, English

Notes: hybrid form		
Course assessment Total number of assessed students: 35		
Ne Pr		
0.0	100.0	
Provides: doc. Mgr. Zuzana Dankulincová, PhD., prof. Mgr. Andrea Madarasová Gecková, PhD., Ing. Lucia Bosáková, PhD., univerzitný docent, PhDr. Ivana Mészáros Skoumalová, PhD., Mgr. Daniela Fil'akovská, PhD., Mgr. Daniela Husárová, PhD., Mgr. Peter Kolarčik, PhD., Mgr. Jaroslava Kopčáková, PhD.		
Date of last modification: 16.05.2022		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafán	University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-MONO- IV/22	Course name: Scientific work as a monograph, published in another publisher		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECIS cro	edits: 20		
Course level: III	ster/trimester of the cours		
Prerequisities.			
The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: By publishing a monograph, the doctoral student demonstrates a high degree of ability to identify, evaluate, correctly apply scientific knowledge and research methods. The doctoral student demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge which he publishes in the monograph (usually in a			
foreign language) in a	accordance with the set qual	ity and ethical standards.	
Brief outline of the c	Brief outline of the course:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 9			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LFCourse name: Scientific work as a monograph, published in • publishersUPJŠ/VP-MONO/22Elsevier, Springer, WileyBlackwell or Taylor & Francis			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS credits: 40			
Recommended semester/trimester of the courses	:		
Course level: III.			
Prerequisities:			
Conditions for course completion: Scientific work as a monograph, published in publishers Elsevier, Springer, WileyBlackwell or Taylor & Francis. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a monograph, the doctoral student demonstrates a high degree of ability to identify, evaluate, correctly apply scientific knowledge and research methods. The doctoral student demonstrates the competence to use existing theories and concepts in an innovative way, as well as to generate new original scientific knowledge, which he publishes in the monograph (usually in a foreign language) in accordance with the set quality and ethical standards.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 2			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF Course name: Scientific work published in a foreign journal as a co-author UPJŠ/VP-ZC-S/22			
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.			
Prerequisities:			
Conditions for course completion: Scientific work published in a foreign journal as a co-author. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific paper in a foreign journal, the doctoral student demonstrates a high degree of ability to identify, evaluate, and correctly apply scientific knowledge and research methods. Demonstrates competence in innovative ways to use existing theories and concepts, as well as the ability to generate new original scientific knowledge, which he publishes in foreign peer-reviewed (usually in a foreign language) by adhering to established quality and ethical standards			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 36			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-ZC-1./22	Course ID: Dek. LF Course name: Scientific work published in a foreign journal as the 1st UPJŠ/VP-ZC-1./22 author		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cre	edits: 15		
Recommended semes	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: Scientific work published in a foreign journal as the 1st author. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific paper in a foreign journal, the doctoral student demonstrates a high degree of ability to identify, evaluate, and correctly apply scientific knowledge and research methods. Demonstrates competence in innovative ways to use existing theories and concepts, as well as the ability to generate new original scientific knowledge, which he publishes in foreign peer-reviewed (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the co	ourse:		
Recommended litera	ture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 10			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Medicine				
Course ID: Dek. LF UPJŠ/VP-NC-S/22	ID: Dek. LF Course name: Scientific work published in an unreviewed foreign or national proceeding as a co-author			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 3			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for course completion: Scientific work published in an unreviewed foreign or national proceedingm PhD. student - a co- author. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).				
Learning outcomes: By publishing a scientific paper in a non-peer-reviewed foreign or domestic proceedings, the doctoral student demonstrates the ability to identify, evaluate and apply scientific knowledge. Demonstrates competence to use existing theories and concepts, as well as the ability to generate new knowledge, which he publishes in domestic or foreign non-peer-reviewed proceedings by adhering to established quality and ethical standards				
Brief outline of the c	Brief outline of the course:			
Recommended litera	Recommended literature:			
Course language: english, slovak				
Notes:				
Course assessment Total number of assessed students: 19				
abs neabs				
100.0 0.0				
Provides:				
Date of last modification: 23.03.2022				
Approved: prof. Ing.	Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LFCourse name: Scientific work published in an unreviewed foreign or national proceeding as the 1st author			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cro	edits: 6		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: Scientific work published in an unreviewed foreign or national proceedingm PhD. student - the 1st author. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific paper in a non-peer-reviewed foreign or domestic proceedings, the doctoral student demonstrates the ability to identify, evaluate and apply scientific knowledge. Demonstrates competence to use existing theories and concepts, as well as the ability to generate new knowledge, which he publishes in domestic or foreign non-peer-reviewed proceedings by adhering to established quality and ethical standards			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 13			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-DC-S/22	Course name: Scientific work published in in a national magazine, respective in in a peer-reviewed foreign or national proceeding as a co-author		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: Scientific work published in in a national magazine, respective in in a peer-reviewed foreign or national proceeding as a co-author. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific paper in a domestic journal or in a peer-reviewed foreign or domestic proceedings, the doctoral student demonstrates the ability to identify, evaluate, and correctly apply scientific knowledge and research methods. Demonstrates competence to use existing theories and concepts, as well as the ability to generate scientific knowledge, which he publishes in domestic peer-reviewed journals or domestic or foreign peer-reviewed proceedings (usually in a foreign language) by adhering to established quality and ethical standards			
Brief outline of the c	Brief outline of the course:		
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 86			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-DC-1./22	Course name: Scientific work published in in a national magazine, respective in in a peer-reviewed foreign or national proceeding as the 1st author		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: Scientific work published in in a national magazine, respective in in a peer-reviewed foreign or national proceeding as the 1st author. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific paper in a domestic journal or in a peer-reviewed foreign or domestic proceedings, the doctoral student demonstrates the ability to identify, evaluate, and correctly apply scientific knowledge and research methods. Demonstrates competence to use existing theories and concepts, as well as the ability to generate scientific knowledge, which he publishes in domestic peer-reviewed journals or domestic or foreign peer-reviewed proceedings (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 80			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-S-Q1/22	Course name: Scientific work published in the journal registered in the WoS/Scopusus databases - as a co-author in the journal which is included in category Q1		
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:			
Proroquisitios.			
 PhD. student - co-author in the journal which is included in category Q1 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use 			
scientific knowledge, by adhering to establ	scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 23			
abs neabs			
100.0 0.0			
Provides:	Provides:		
Date of last modifica	ition: 23.03.2022		
Approved: prof. Ing.	Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-S-Q2/22	Course name: Scientific work published in the journal registered in the WoS/Scopusus databases - as a co-author in the journal which is included in category Q2		
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			
Course level: III.			
Prerequisities:			
Conditions for course completion: PhD. student - co-author in the journal which is included in category Q2 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use existing theories and concepts in an innovative way, as well as the ability to generate new original scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 20			
abs neabs			
100.0 0.0			
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing.	Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-S-Q3/22	Course name: Scientific w WoS/Scopusus databases - category Q3	ork published in the journal registered in the as a co-author in the journal which is included in	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 15 Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for course completion: PhD. student - co-author in the journal which is included in category Q3 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use existing theories and concepts in an innovative way, as well as the ability to generate new original scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 28			
	abs neabs		
	100.0	0.0	
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-S-Q4/22	Course name: Scientific w WoS/Scopusus databases - category Q4	ork published in the journal registered in the as a co-author in the journal which is included in	
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.			
Prerequisities:			
Conditions for course completion: PhD. student - co-author in the journal which is included in category Q4 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use existing theories and concepts in an innovative way, as well as the ability to generate new original scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 16			
	abs neabs		
	100.0	0.0	
Provides:	Provides:		
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-1Q1/22	Course name: Scientific w WoS/Scopusus databases - in category Q1	ork published in the journal registered in the as the 1st author in the journal which is included	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 40 Recommended semester/trimester of the course:			
Prerequisities:			
 PhD. student - 1st author in the journal which is included in category Q1 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the 			
scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use existing theories and concepts in an innovative way, as well as the ability to generate new original scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 21			
	abs neabs		
	100.0 0.0		
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-1Q2/22	Course name: Scientific w WoS/Scopusus databases - in category Q2	ork published in the journal registered in the as the 1st author in the journal which is included	
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:			
Droroquisitios:			
 PhD. student - 1st author in the journal which is included in category Q2 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program). Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use 			
scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the course:			
Recommended litera	Recommended literature:		
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 7			
	abs neabs		
	100.0	0.0	
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-1Q3/22	Course name: Scientific w WoS/Scopusus databases - in category Q3	ork published in the journal registered in the as the 1st author in the journal which is included	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 25 Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for course completion: PhD. student - 1st author in the journal which is included in category Q3 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use existing theories and concepts in an innovative way, as well as the ability to generate new original scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 5			
	abs neabs		
	100.0	0.0	
Provides:	Provides:		
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/VP-1Q4/22	Course name: Scientific w WoS/Scopusus databases - in category Q4	ork published in the journal registered in the as the 1st author in the journal which is included	
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.			
Prerequisities:			
Conditions for course completion: PhD. student - 1st author in the journal which is included in category Q4 (according SJR or JCR). The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: By publishing a scientific work in journals registered in reputable databases (WoS, Scopus), the doctoral student demonstrates a high degree of ability to identify, evaluate, correct apply the scientific knowledge and use research methodology. Ph.D. student demonstrates competence to use existing theories and concepts in an innovative way, as well as the ability to generate new original scientific knowledge, which he/she publishes in renowned journals (usually in a foreign language) by adhering to established quality and ethical standards.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 3			
	abs neabs		
	100.0 0.0		
Provides:			
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

COURSE INFORMATION LETTER		
University: P. J. Šafárik University in Košice		
Faculty: Faculty of M	ledicine	
Course ID: Dek. LF UPJŠ/ODP/16	Course name: Submission of dissertation thesis for defense	
Course type, scope an Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: se-load (hours): y period: sent adite: 10	
Recommended semes	ster/trimester of the course:	
Course level: III.		
Prerequisities:		
Conditions for course The PhD student can a or the Dean's Office, 210 credits, if the stud including the credits for before the scheduled of All information about section, including the section. Students will information on the for 1/2011 on the basic re The submitted work principles of good pr Decision No. 21/2021 parts, Rector's Decision in Košice and its parts	e completion: apply for the defense of the dissertation for the relevant paper of the Rectorate if the study program takes place at the faculty, if he has obtained at least dy in the daily form is four years old and an external five years old, without or the dissertation defense. The application is submitted no later than 3 months completion of his PhD. : the doctoral study is specified on the faculty's website in the Doctoral Study e conditions of completion, which are detailed in the State Examinations l find here all the necessary information, forms and documents, including prmal side of the dissertation, which are in accordance with Directive No. equirements of final theses and the PhD Study Regulations at UPJŠ in Košice. must be in accordance with the Rector's Decision No. 5/2021, issuing the ractice of scientific publication at UPJŠ in Košice and its parts, Rector's l, on issuing rules for the assessment of plagiarism at UPJŠ in Košice at UPJŠ s.	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	ture:	

Recommended iteratu

Course language:

english, slovak

Notes:

Course assessment Total number of assessed students: 93	
abs	neabs
100.0	0.0
Provides:	

Date of last modification: 23.03.2022

Approved: prof. Ing. Mária Mareková, CSc.

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University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: Dek. LF Course name: Supervision of bachelor thesis UPJŠ/V/K-ZP/22		
Course type, scope and the method:		
Course type:		
Recommended course-load (hours): Per week: Per study period:		
Course method: present		
Number of ECTS credits: 8		
Recommended semester/trimester of the course	je:	
Course level: III.		
Prerequisities:		
Conditions for course completion: Supervision of bachelor thesis. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).		
Learning outcomes: By supervising the bachelor thesis, the doctoral student demonstrates the ability to use scientific knowledge and methods (e.g. laboratory, statistic) acquired by studying in the relevant field of study/study program. Can critically assess a professional problem and proposed solutions, evaluate it, or suggest other solutions. At the same time, it demonstrates the ability to transfer the acquired knowledge and skills.		
Brief outline of the course:		
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 34		
abs	neabs	
100.0	0.0	
Provides:		
Date of last modification: 24.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Medicine			
Course ID: Dek. LF UPJŠ/PC/22	Course name: The	direct pedagogical activity	
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of th	e course:	
Course level: III.			
Prerequisities:			
Conditions for course completion: The pedagogical activity of a doctoral student or other related professional activity in the range of up to four hours per week on average per academic year. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).			
Learning outcomes: Through pedagogical activities, the doctoral student demonstrates the ability to transfer and integrate knowledge from their own field of study/study program into education. Is able to design and implement part of the educational process (e.g. practical exercises, including the evaluation of partial results) in accordance with current trends in higher education. He is able to select and apply the right techniques and strategies of study group management in accordance with the requirements for the level of communication and digital competencies.			
Brief outline of the course:			
Recommended literature:			
Course language: english, slovak			
Notes:			
Course assessment Total number of assessed students: 221			
	abs	neabs	
	100.0	0.0	
Provides:	Provides:		
Date of last modification: 23.03.2022			
Approved: prof. Ing. Mária Mareková, CSc.			

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: ULCHBKB/ VIDB/22	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 cr	edits: 5	
Recommended seme	ster/trimester of the course:	
Course level: III.		
Prerequisities:		
Conditions for cours practical exercise details: https://ww education/subjects/dc	e completion: s, seminars, solving of assigned tasks, exam; more w.upjs.sk/lekarska-fakulta/en/department/medical-and-clinical-biochemistry/ petoral-study/	
Learning outcomes: The graduates will g processing of biologi biological samples. T and the used instrume obtained by clinical-b	gain theoretical and practical knowledge about the correct collection and cal material. They know the basic laboratory methods used in the analysis of 'hey will get acquainted with the work in the clinical-biochemical laboratory ntation (including automation and control) and will be able to apply the results biochemical examination in the diagnosis of diseases.	
Brief outline of the c Introduction to clin of results (physiolo emergency medicine Inflammatory market metabolism - market and robotization in c fakulta/en/departmen	ourse: ical biochemistry. Collection of biological material and interpretation ogical and pathophysiological values). Basic laboratory parameters in . Diabetes mellitus. Biochemical examinations in liver diseases. Kidneys. ers. Cardiac markers. Blood count. Coagulation examinations. Bone rs of bone metabolism. Specialized investigation procedures. Automation linical-biochemical diagnostics. More details: https://www.upjs.sk/lekarska- t/medical-and-clinical-biochemistry/education/subjects/doctoral-study/	
Recommended litera Shweta Pandey et al.: W.: Clinical Biochem Handbook of Clinical Pincus M.R.: Henry's 2011 Current scientif	ture: Protocols in Biochemistry and Clinical Biochemistry, 2020 Marshall histry: Metabolic and Clinical Aspects, Elsevier, 2014 Swaminathan R.: Biochemistry, World Scientific Publishing Co Pte, 2011 McPherson R.A., S Clinical Diagnosis and Management by Laboratory Methods, Elsevier, ic and professional publications	
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 1		
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Ne	Pr	
0.0	100.0	
Provides: prof. Ing. Mária Mareková, CSc.		
Date of last modification: 17.02.2023		
Approved: prof. Ing. Mária Mareková, CSc.		

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Medicine		
Course ID: Dek. LF Course name: Work in the conference organizing committee UPJŠ/OVK/22		
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.		
Prerequisities:		
Conditions for course completion: Work in the conference organizing committee. The doctoral student states the activity in the doctoral annual report and these activities are relevantly documented (e.g. publication, program).		
Learning outcomes: The doctoral student working in the organizing committee of the conference demonstrates the ability of teamwork in the preparation of a scientific or professional event. It declares the competence to manage the implementation of the event in terms of time and content, to communicate effectively in words and writing as needed in a foreign language at a professional level with different types of people. He/she can use various technical means, recommend and propose solutions and, if necessary, make independent decisions.		
Brief outline of the course:		
Recommended literature:		
Course language: english, slovak		
Notes:		
Course assessment Total number of assessed students: 22		
abs	neabs	
100.0	0.0	
Provides:		
Date of last modification: 23.03.2022		
Approved: prof. Ing. Mária Mareková, CSc.		