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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Advances in Clinical Biochemistry

PKLB/13

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):

Per week: 2 / 2 Per study period: 28 / 28 Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Elaboration of a seminar paper on a topic related to the subject Klinical Biochemistry. A discussion with the examiner about the topic of the seminar work, in which the student is given the opportunity to prove that they possess sufficient knowledge of the subject.

Learning outcomes:

Familiarize postgraduate students with newest knowledge from medicinal biochemistry and pathobiochemistry.

Brief outline of the course:

Molecular basis of medicinal biochemistry (urine, kidney, pancreas, gland, heart, blood circulation, lungs and bronchi, liver and bile duct) and its application into practice.

Recommended literature:

Rosenthal, M.D., Glew, R.H.: Medical biochemistry – human metabolism in health and disease, Wiley and Sons, 2009.

Course language:

English

Notes:

Teaching is carried out either face-to-face or remotely/hybrid learning using the MS Teams program. The teaching format is specified by the teacher at the beginning of the semester and updated continuously.

Course assessment

Total number of assessed students: 6

N	P
0.0	100.0

Provides: prof. RNDr. Mária Kožurková, CSc.

Date of last modification: 13.03.2023

Approved: prof. RNDr. Mária Kožurková, CSc.

COURSE INFORMATION LETTER				
University: P. J. Šafárik University in Košice				
Faculty: Faculty of So	cience			
Course ID: ÚCHV/ BINF/06	Course name: Bioinforma	tics		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28 Course method: present				
Number of ECTS cre	edits: 10			
	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for course completion: Independent work on assignments during the semester Final assignment, exam				
Learning outcomes: The student will obtain information and practical experience with methods of obtaining and analyzing biological sequences using either a PC and freely available software (BioEdit, RasMol, VNTI-Viewer, MAGA), as well as using software available via the www network. In addition to basic information, students will also get information about some specialized analyzes - molecular taxonomy, phylogenetic analysis and prediction of biopolymer structures.				
Brief outline of the course: Use of PC and online web servers in sequence analysis. Freely available biological databases (PubMed, GenBank, SwissProt). Analysis of nucleotide sequences. Analysis of protein sequences. Pairwise sequence comparisons - blast analysis. Multiple sequence comparison - clustal program. Molecular taxonomy of bacteria. Evolutionary and phylogenetic analyses. Predicting the secondary and tertiary structure of biopolymers.				
Recommended literature: The phylogenetic handbook, Salemi, M. a Vandamme, A-M., Cambridge University Press, 2003, 485 pp Bioinformatics: a practical guide to the analysis of genes and proteins, Baxevanis, AD; Francis Ouellette, BF. 4th edition, Wiley, 2020, 609 pp.				
Course language: slovak, english				
Notes:				
Course assessment				
10tal number of asses	Total number of assessed students: 32 N P			
	11	1		

100.0

0.0

Provides: doc. RNDr. Peter Pristaš, CSc.

Date of last modification: 09.08.2022

Approved: prof. RNDr. Mária Kožurková, CSc.

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ CZC/04			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 71			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 15.09.2021			
Approved: prof. RNDr. Mária Kožurková, CSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚCHV/ CDC/04				
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 cours	Conditions for course completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 1				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 15.09.2021				
Approved: prof. RNDr. Mária Kožurková, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ CM/04				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr				
Recommended seme	ster/trimester of the cours	se:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 4				
abs n				
	100.0 0.0			
Provides:				
Date of last modification: 15.09.2021				
Approved: prof. RNDr. Mária Kožurková, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ SDPR/04				
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:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 518				
abs n				
99.81 0.19				
Provides:				
Date of last modification: 15.09.2021				
Approved: prof. RNDr. Mária Kožurková, CSc.				

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Co-worker of an International Project SMPR/04 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:** Membership in the research team of an international project. **Learning outcomes:** Active involvement by solving a specific task within a team of international project solvers. The PhD student demonstrates the ability to work in a team, take responsibility for the assigned task, adhere to the time schedule and fulfill the project outputs. The PhD student gains personal experience from the implementation of an international project, participation in its key stages, creation of measurable outputs, grant funding of science. **Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 42 abs n 100.0 0.0 **Provides:** Date of last modification: 08.11.2022

Approved: prof. RNDr. Mária Kožurková, CSc.

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ KSB/13	Course name: Conformational Stability of Proteins
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent
Number of ECTS cr	
	ester/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Examination.	se completion:
folding and biosynth	n extended knowledge in the field of conformation properties of proteins, lesis of proteins, formation and characteristics of missfodled and agregated ques in study of proteins: solvent engineering, display/evolution technologies.
polypeptide backbon 2. Protein structure of proteins, conformatio 3. Proteins in solution globular proteins) — protein structure. Mis 4. Protein stability —	es of polypeptides (the polymeric nature of proteins, amino acid residues, the
York, 2004. 2. J.M. Berg, J.L. Tyr	Michael M. Fox, Lenhinger principles of biochemistry, W.H.Freeman, New moczko, L. Stryer, Biochemistry, W.H.Freeman, New York, 2007. ton, Proteins, Structure and Molecular Properties (2nd Ed.), W.H.Freeman;
Course language:	

Notes:

Course assessment Total number of assessed students: 4			
N P			
0.0	100.0		
Provides: prof. Ing. Marián Antalík, DrSc., doc. RNDr. Erik Sedlák, DrSc., RNDr. Nataša Tomášková, PhD., doc. RNDr. Rastislav Varhač, PhD.			
Date of last modification: 13.03.2023			
Approved: prof. RNDr. Mária Kožurková, CSc.			

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚCHV/ ODZP/2014/15	Course ID: ÚCHV/ Course name: Defence of Doctoral Thesis				
Course type: Recommended cour Per week: Per stud	Course type, scope and the method:				
Number of ECTS cro	edits: 30				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for course completion: The Dissertation thesis is the result of the student's own scientific research. It must not show elements of academic fraud and must meet the criteria of correct research practice defined in the Rector's Decision no. 21/2021, which lays down the rules for assessing plagiarism at Pavel Jozef Šafárik University in Košice and its constituents. Fulfillment of the criteria is verified mainly in the process of supervising and in the process of the thesis defense. Failure to do so is grounds for disciplinary action. Learning outcomes:					
The Dissertation thesis has elements of a scientific work and the student demonstrates extensive mastery of the theory and professional terminology of the field of study, acquisition of knowledge, skills and competences in accordance with the declared profile of the graduate of the field of study, as well as the ability to apply them in an original way in solving selected problems of the field of study. The student demonstrates the ability of independent scientific work in terms of content, formal and ethical aspects. Further details of the Dissertation thesis are determined by Directive no. 1/2011 on the essential prerequisites of final theses and by the Study Rules of Procedure at UPJŠ in Košice for doctoral studies. The doctoral student demonstrated the ability and readiness for independent scientific and creative activity in the field of study of philology in accordance with the expectations of the relevant qualification framework and the profile of the graduate.					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 64					
	N P				
0.0					

Provides:	
Date of last modification: 08.11.2022	
Approved: prof. RNDr. Mária Kožurková. CSc.	

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚCHV/ PPC/04				
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: 1			
Recommended seme	ster/trimester of the cou	·se:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 422				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 15.09.2021				
Approved: prof. RNDr. Mária Kožurková, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ PPC/04	ourse ID: ÚCHV/ Course name: Direct Pedagogical Activities PC/04			
Course type: Recommended course 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				
	ster/trimester of the cou	rse:		
Course level: III.				
Prerequisities:				
Conditions for cours	Conditions for course completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	Recommended literature:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 422				
	abs n			
	100.0 0.0		0.0	
Provides:		•		
Date of last modification: 15.09.2021				
Approved: prof. RNI	Approved: prof. RNDr. Mária Kožurková, CSc.			

University: P. J. Šafá	rik University in Košio	ce		
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ DZS/15	ourse ID: ÚCHV/ Course name: Dissertation examination ZS/15			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr				
	ster/trimester of the o	course:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 63				
	N		P	
	0.0 100.0			
Provides:				
Date of last modification: 15.09.2021				
Approved: prof RNDr Mária Kožurková CSc				

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

AJD1/07

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Completion of e-course English for PhD Students (lms.upjs.sk), consultations (1-3).

Written assignments - Professional/Academic CV, Short Academic Biography.

Learning outcomes:

The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2.

Brief outline of the course:

Specific aspects of academic and professional English with focus on correct pronunciation, vocabulary development (noun and verb collocations, phrasal verbs, prepositional phrases, word-formation, formal/informal language, etc.), selected aspects of English grammar (prepositions, grammar tenses, passive voice, etc.), academic writing (professional/academic CV, Short Academic Biography).

Recommended literature:

Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017.

Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí – cvičebnica. Košice, Vydavateľstvo ŠafárikPress, 2021.

Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing.

Vydavateľstvo ŠafárikPress, 2021.

McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.

Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011.

Armer, T.: Cambridge English for Scientists. CUP, 2011.

lms.upjs.sk

Course language:

English, level B2 according to CEFR

Notes:

Course assessment					
Total number of assessed students: 738					
N	Ne	Р	Pr	abs	neabs
0.0	0.0	48.1	0.0	51.9	0.0

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 16.09.2022

Approved: prof. RNDr. Mária Kožurková, CSc.

University: P. J. Šafárik University in Košice		
Faculty: Faculty of Science		
Course ID: CJP/ AJD2/07 Course name: English Language for PhD Students 2		
Course type scope and the method:		

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Test, oral exam in accordance with the exam requirements (https://www.upjs.sk/filozoficka-fakulta/ cjp/doktorandi-upjs/)

Learning outcomes:

The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the language for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2.

Brief outline of the course:

Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development (formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference.

Recommended literature:

Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017.

Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021.

Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021.

McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.

Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011.

Armer, T.: Cambridge English for Scientists. CUP, 2011.

Course language:

B2 level according to CEFR

Notes:

Course assessment Total number of assessed students: 729 N Ne P Pr abs neabs 0.27 0.0 93.83 1.1 4.8 0.0

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 10.03.2022

Approved: prof. RNDr. Mária Kožurková, CSc.

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ GI/06	rse ID: ÚCHV/ Course name: Genetic Engineering		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28 Course method: present			
Number of ECTS cr			
	ster/trimester of the cours	2:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	Brief outline of the course:		
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:	Notes:		
Course assessment Total number of assessed students: 17			
	N P		
	0.0 100.0		
Provides: doc. RNDr	Provides: doc. RNDr. Peter Pristaš, CSc.		
Date of last modification: 16.11.2021			
Approved: prof. RNI	Approved: prof. RNDr. Mária Kožurková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ MK/04	Course name: Internation	nal Conference	
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: 6		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	Conditions for course completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:	Notes:		
Course assessment Total number of assessed students: 227			
	abs		
	100.0 0.0		
Provides:	Provides:		
Date of last modification: 15.09.2021			
Approved: prof. RNDr. Mária Kožurková, CSc.			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: International Currented Journal ZKC/04 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:** Publication od the paper in journal registered in CC database. **Learning outcomes: Brief outline of the course:** Authorship or co-authorship of doctoral student on a paper published in a foreign journal registered in the Current Contents Connect database. **Recommended literature:** Course language: English language. **Notes: Course assessment** Total number of assessed students: 342 abs n 99.71 0.29 **Provides:** Date of last modification: 05.11.2021 **Approved:** prof. RNDr. Mária Kožurková, CSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ ZNC/04			
Course type: Recommended course recommended course type:	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:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 28			
	abs n		
	100.0 0.0		
Provides:	Provides:		
Date of last modification: 15.09.2021			
Approved: prof. RNI	Approved: prof. RNDr. Mária Kožurková, CSc.		

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course name: Local Conference Course ID: ÚCHV/ DK/04 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 participation in the home conference. **Learning outcomes:** By actively participating in the national scientific conference, the PhD student demonstrates a high degree of ability to identify, evaluate, and apply correct scientific methods or research methodology in his scientific field. He demonstrates the ability to reflect on a specific scientific problem by using the latest approaches and applying them critically. Demonstrates competence in using existing theories and concepts in an innovative way, as well as generating new original scientific knowledge and communicating research results to a wider audience using adequate means and through the Slovak language. **Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 126 abs n 100.0 0.0 **Provides:** Date of last modification: 08.11.2022 **Approved:** prof. RNDr. Mária Kožurková, CSc.

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ DKZU/04	Course name: Local Confe	erence with Foreign Participation	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:		
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cours	2:	
Course level: III.			
Prerequisities:			
Conditions for cours	Conditions for course completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 256			
	abs n		
	100.0 0.0		
Provides:			
Date of last modification: 15.09.2021			
Approved: prof. RNI	Approved: prof. RNDr. Mária Kožurková, CSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ DKC/04	Course ID: ÚCHV/ Course name: Local Currented Journal OKC/04			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr				
	ster/trimester of the co	ourse:		
Course level: III.				
Prerequisities:				
Conditions for cours	Conditions for course completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:	Notes:			
Course assessment Total number of assessed students: 10				
	abs n			
	100.0 0.0			
Provides:				
Date of last modification: 15.09.2021				
Approved: prof RNDr Mária Kožurková CSc				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ DNC/04			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:	Prerequisities:		
Conditions for cours	Conditions for course completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 18			
	abs		
	100.0 0.0		
Provides:			
Date of last modification: 15.09.2021			
Approved: prof. RNDr. Mária Kožurková, CSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ POVK/04	ourse ID: ÚCHV/ Course name: Membership in a Conference organizing Committee OVK/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the course		
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 40			
	abs n		
	100.0 0.0		
Provides:			
Date of last modification: 16.09.2021			
Approved: prof. RNI	Dr. Mária Kožurková, CSc.		

	COURSE INFORM	MATION LETTER		
University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ MPEP/06				
Course type: Recommended cour Per week: Per stud	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: 4			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for course completion: Elaboration of a seminar paper on a topic related to the methodical approaches in experimental work and the topic of the student's doctoral studies. A discussion with the examiner about the topic of the seminar work, in which the student is given the opportunity to prove that they possess sufficient knowledge of the subject. Learning outcomes: The aim of the course is to provide students with a basic understanding of the methodology of scientific work, the creation and verification of scientific theories, the design, implementation and				
interpretation of scientific experiments, the presentation of scientific results in biochemistry and other related fields.				
Brief outline of the course: The science of science, the scientific method, scientific logic, induction and deduction, empirical methods of science, the construction of scientific theories, the methodology of biological and chemical sciences, problem formulation, the implementation, interpretation and evaluation of experiments, the presentation of results, the principles of creating scientific publications.				
Recommended literature: Wanunu M., Tor, Yitzhak.: Methods for studing nucleic acids/drug interaction. CRc Press, Taylor and Francis Group, 2012. Chaires, J.B., Waring, M.J.: Methods in Enzymology, Academic Press, 2001.				
Course language: English				
Notes:				
Course assessment Total number of assessed students: 19				
	abs	n		

0.0

100.0

Provides: prof. RNDr. Mária Kožurková, CSc., prof. Ing. Marián Antalík, DrSc., doc. RNDr. Viktor Víglaský, PhD., doc. RNDr. Erik Sedlák, DrSc., RNDr. Danica Sabolová, PhD.

Date of last modification: 07.03.2023

Approved: prof. RNDr. Mária Kožurková, CSc.

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚCHV/ MTB/13	Course name: Modern Trends in Biotechnology		
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 42 / 14		
Number of ECTS cr	edits: 6		
Recommended seme	ster/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for course completion: Writing the seminar work.			
Learning outcomes: Students will have th	e latest knowledge and trends in biotechnology.		
Brief outline of the course: Methods, disciplines and the use of biotechnology. The material base for biotechnology. Genetic engineering, cloning, artificial insemination and conventional techniques of plant biotechnology. Biomass - Biotechnology substrate. Biogas. Fermentation processes, cultivation equipment, types of fermenters and mixers. Food Biotechnology: alcoholic fermentation, production of spirits, beer and wine. Production of dairy products, amino acids and vitamins. Manufacture of organic solvents: acetone, butanol, ethanol. Biotechnology in medicine. Production of antibiotics, vaccines and proteins for therapeutic purposes. Wastewater treatment: biological filters, membrane bioreactors, sludge disposal, removal of solid impurities and water disinfection.			
Simpson, Food Bioch 2. E. M. T. El-Mansi, Microbiology and Bi 3. Principles of Ferm Elsevier Science Ltd. 4. J. G. Black, Micro 5. J. E. Smith, Biotec	ai-Kit Nip, Leo M.L. Nollet, PhD, Gopinadhan Paliyath, Ph.D., Benjamin K. nemistry and Food Processing, Wiley-Blackwell, 2006. C. F. A. Bryce, Arnold L. Demain, A.R. Allman, Fermentation otechnology, Second Edition, CRS Press, 2006. entation Technology, Second Edition, P F Stanbury, S. Hall, A. Whitaker,		
Course language:			

Notes:

Course assessment				
Total number of assessed students: 7				
N	P			
0.0	100.0			
Provides: RNDr. Danica Sabolová, PhD.				
Date of last modification: 07.03.2023				
Approved: prof. RNDr. Mária Kožurková, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚCHV/ NZ/04	Course name: Not-Reviewed International or Local Proceedings			
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:				
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed students: 195				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification: 15.09.2021				
Approved: prof. RNDr. Mária Kožurková, CSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚCHV/ NKSF/13	Course name: Nucleic Acids: Structure and Function			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present				
Number of ECTS credits: 6				
Recommended semes	ster/trimester of the course:			
Course level: III.				
Prerequisities:				
The lecturer conduct (sickness, family reas event of longer-term)	ctures (also by distance learning). ting the lecture/seminar will excuse the justified absence of the student sons, etc.) at a maximum of two lectures/seminars during the semester. In the justified absence (e.g. due to sickness), the student must provide evidence of a course content by means of an agreed substitute; oral examination			
•	f the course is to provide studenst of PhD degree the newest trends in the field and biochemistry focused on nucleic acids.			
Brief outline of the course: Cell signaling system. Molecular basis of neoplastic cell transformation leading to development of cancer - oncogenes, tumor suppressing genes, regulatory regions of DNA. Gene mutations and DNA repair mechanisms. Induced pluripotent stem cells. Current trends and advances in the study of nucleic acids, their biological significance in cell metabolism. Gene therapy. Gene editing-CRISPR Cas technology. Gene silencing. The classification of viruses based on genetic material, the effect of physical and chemical factors on viruses. Biochemistry of viruses. Virus replication. Viral oncogenicity. Retroviruses and HIV. Pandemic viruses - Covid, SARS, MERS, Ebola, influenza papillomaviruses. Prions. Aptamers and nanobioconjugates. Molecular basis of the manifestation of genetically determined diseases and their detection and diagnostic.				
Recommended literature: 1. B. Alberts, A. Johnson, J. Lewis, M. Raff, K. Roberts, P.: Walter Molecular Biology of the Cell, Garland Science, Fifth edition, New York, NY, 2008. 2. Neidle S.: Cancer Drug Design and Discovery, Academic Press, First edition, 2007. 3. Krauss G.: Biochemistry of Signal Transduction and Regulation, Wiley-VCH Verlag GmbH, Second Edition, 2003.				
Course language:				

Course assessment Total number of assessed students: 9				
N	P			
0.0	100.0			
Provides: doc. RNDr. Viktor Víglaský, PhD.				
Date of last modification: 13.03.2023				
Approved: prof. RNDr. Mária Kožurková, CSc.				

University: P. J. Šafá	rik University in Koš	ice	
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ PVS/04	HV/ Course name: Patents, Inventions, Software		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr			
Recommended seme	ster/trimester of the	course:	
Course level: III.	,		
Prerequisities:			
Conditions for course Patent filed, invention	-	reated.	
		o create an innovative product in a given scientific field, e or in technical practice.	
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 0		
	abs	n	
0.0			
Provides:		•	
Date of last modifica	ition: 08.11.2022		
Approved: prof. RNI	Dr. Mária Kožurková	, CSc.	

Page: 37

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: KPE/ **Course name:** Pedagogy for University Teachers

PgVU/17

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: Per study period: 28s

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

- 1. Development of a teaching diary—100%
- 2. Compulsory active participation and attendance in accordance with the Study Regulations.

Learning outcomes:

Students will be able to:

Apply didactic principles, methods, forms, and tools in the teaching of a specialised subject. Specify the educational procedures of a university teacher in subject teaching, pedagogical diagnostics, evaluation of learning outcomes, and self-reflection. Present rationalisation and streamlining possibilities in the teaching of specialised subjects. Apply educational competencies of university teachers taking into account the peculiarities of educating university students.

Brief outline of the course:

The personality of a university teacher. Teaching styles. Student in university education. Student learning styles. Possibilities of adapting teaching styles and student learning styles. University teacher–student interaction and communication in the teaching process. Pedagogical competencies of a university teacher. Didactic analysis of the curriculum; teaching materials and textbooks. Forms of university teaching. Methods of university teaching. Verification methods and student assessment. Creation of a didactic test. Designing university teaching process. University teacher self-reflection.

Recommended literature:

Čapek, R. (2015). Moderní didaktika. Lexikon výukových a hodnoticích metod. Praha, Grada Publishing, a.s.

Danek, J. (2014). Pedagogická komunikácia na vysokej škole. Trnava, Univerzita sv.Cyrila a Metoda v Trnave.

Dargová, J. (2001). Tvorivé kompetencie učiteľa. Prešov, Privat Press.

Dvořáček, J. (2014). Základy pedagogiky. Praha, Oeconomica.

Hupková, M., Petlák, E. (2004). Sebareflexia a kompetencie v práci učiteľa. Bratislava, IRIS. Kyriacou, CH. (1996). Klíčové dovednosti učitele. Praha, Portál.

Mertin, V. a kol. (2012). Metody a postupy poznávaní žáka: pedagogická diagnostika. Praha, Wolters Kluwer.

Petty, G. (2013). Moderní vyučování. Praha, Portál.

Prucha, J. (2013). Moderní pedagogika. Praha, Portál.

Sirotová, M. (2014). Vysokoškolský učiteľ v edukačnom procese. Trnava, Univerzita sv.Cyrila a Metoda v Trnave.

Slávik, M. a kol. (2012). Vysokoškolská pedagogika. Praha, Grada.

Šebeň Zaťková, T. (2014). Úvod do vysokoškolskej pedagogiky. Trnava, Univerzita sv.Cyrila a Metoda v Trnave.

Turek, I. (2014). Didaktika. Bratislava, Wolters Kluwer, s.r.o.

Zormanová, L. (2014). Obecná didaktika. Praha, Grada.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 78

abs	n	neabs
98.72	0.0	1.28

Provides: doc. PaedDr. Renáta Orosová, PhD.

Date of last modification: 07.09.2022

University: P. J. Safá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ FBB/06	Course name: Physiology and Biochemistry of Rumen Microorganisms		
Course type, scope a Course type: Lectur Recommended course week: 4/2 Per Course method: pre	re / Practice rse-load (hours): study period: 56 / 28		
Number of ECTS cr	edits: 10		
Recommended seme	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 10		
N P			
0.0 100.0			
Provides: doc. RNDr	. Peter Pristaš, CSc.	•	
Date of last modifica	ntion: 16.11.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VYS/04	Course ID: ÚCHV/ Course name: Presentation in Seminar VYS/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the co	ourse:	
Course level: III.			
Prerequisities:	,		
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 191		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	ition: 15.09.2021		
Approved: prof. RNI	Dr. Mária Kožurková, C	Sc.	

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: Course name: Psychological Course nam

KPPaPZ/PsVU/17

Course name: Psychology for University Lecturers

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: Per study period: 28s

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Case study, micro-output, its analysis

Current modifications of the course are listed in the electronic bulletin board of the course.

Learning outcomes:

After completing the course, students can:

and Understand, summarize and explain selected psychological knowledge from cognitive psychology, emotion and motivation psychology, personality psychology, developmental, social, educational psychology and health psychology.

- b) apply the above psychological knowledge necessary for the professional, competent performance of university teaching practice of doctoral students
- c) to create and implement the teaching of a professional topic with applied psychological knowledge
- d) evaluate their performance and the performance of their classmates, provide feedback

Brief outline of the course:

The content of the course is based on selected psychological knowledge of cognitive psychology, psychology of emotions and motivation, personality psychology, developmental, social, educational psychology and health psychology. Teaching is realized by a combination of lectures with interactive, experiential methods, discussion, open communication with mutual respect, support of independence, activity and motivation of students. Syllabus: University teacher and his work in the teaching process with a focus on: teachers in relation to themselves (cognitive, personal, social and competencies in the use of methods), in relation to students and as part of the teacher-student relationship on the basis of selected areas of cognitive psychology, psychology of emotions and motivation, developmental psychology, social psychology, educational psychology and health psychology with application to the university environment

Recommended literature:

Alexitch, L. R. (2005). Applying social psychology to education. Social Psychology.—Ed.: Schneider F., Gruman J., Coutts L.—Sage Publications, Inc, 205-228.

Fry, H., Ketteridge, S., & Marshall, S. (2008). A handbook for teaching and learning in higher education: Enhancing academic practice. Routledge.

Mareš, J.: Pedagogická psychologie. Portál, 2013.

Kniha psychologie. Universum, 2014

Čáp, J., Mareš, J.: Psychologie pro učitele. Praha: Portál 2007.

Vágnerová, M.: Školní poradenská psychológie pro pedagogy. Praha: Karolínum 2005.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 70

abs	n	neabs
100.0	0.0	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 24.06.2022

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Research of Individual Molecules

VIM/13

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Examination.

Learning outcomes:

In biological systems, many biopolymers present in small amounts, even as individual molecules. Recently, new methods have been developed to study such systems. The lectures will be given to work regularities of such systems, as well as biochemical and biophysical research methods of individual molecules.

Brief outline of the course:

Biomacromolecules, cells in terms of their individual characteristics. Basic knowledge about the function of lasers and other devices (eg XFEL), suitable for the study of biomacromolecules. GFP protein, dyes - fluorescent probes, nano and microparticles. Atomic force microscopy - AFM, MSM. Microchip electrophoresis and microhydrodynamic devices (MEMS, Lab on a Chip). Super resolution microscopy, two-photon processes, and more. TERS, SERS, Fano resonance. SNOM, fluorescence correlation spectroscopy. GSDM, STED. Storm, FRET, TIRF. Manipulation of individual molecules, cells. Optical tweezers, magnetic tweezers, optical crystals with cavity. Electron microscopy (SEM, TEM), X-ray microscopy. Study of membrane processes, Patch clamp. The electrical conductivity of the molecules, graphene, carbon nanotubes.

Recommended literature:

- 1. Christoph Zander, Jörg Enderlein, Richard A. Keller Single molecule detection in solution: methods and applications Wiley, 2002.
- 2. Chris Gell, David Brockwell, D. Alastair Smith, Handbook of single molecule fluorescence spectroscopy, Oxford University Press, 2006.
- 3. Experimental oriented journal articles:

/ Keir C Neuman & Attila Nagy Single-molecule force spectroscopy: optical tweezers, magnetic tweezers and atomic force microscopy Nature Methods - 5, 491 - 505 (2008)

/ Chirlmin Joo, Hamza Balci, Yuji Ishitsuka,1 Chittanon Buranachai, and Taekjip Ha,

Advances in Single-Molecule Fluorescence Methods for Molecular Biology, Annual Review of Biochemistry 77, 51-76 (2008).

Course language:

Notes:		
Course assessment Total number of assessed students: 3		
N P		
0.0 100.0		
Provides: prof. Ing. Marián Antalík, DrSc.		
Date of last modification: 13.03.2023		
Approved: prof. RNDr. Mária Kožurková, CSc.		

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ VPBP/04	Course ID: ÚCHV/ Course name: Review of a Bachelor Thesis /PBP/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the co	urse:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	ture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 67			
	abs n			
	100.0		0.0	
Provides:		<u>'</u>		
Date of last modifica	tion: 15.09.2021			
Approved: prof. RNI	Dr. Mária Kožurková, C	Sc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ RZ/04	Course ID: ÚCHV/ Course name: Reviewed International or Local Proceedings		
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 cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 367		
abs			
100.0 0.0			
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ SCI/04	Course ID: ÚCHV/ Course name: SCI Citation		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:		
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the co	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 298		
	abs n		
	100.0		0.0
Provides:		•	
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Mária Kožurková, C	Sc.	

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course nam

Course name: Selected Topics in Biochemistry of Microorganisms

VKBM/13

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28

Course method: present

Number of ECTS credits: 8

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Elaboration of a seminar paper on a topic related to the subject biochemistry of microorganism and the topic of the student's doctoral studies. A discussion with the examiner about the topic of the seminar work, in which the student is given the opportunity to prove that they possess sufficient knowledge of the subject.

Learning outcomes:

Familiarize postgraduate students with newest knowledge from Biochemistry of microorganism.

Brief outline of the course:

Diversity of microbial world – microbial evolution, taxonomy and diversity.

Ecology and symbiosis – Biogeochemical cycling and introductory microbial ecology, microbial interactions.

Antimicrobial chemotherapy – development of chemotherapy, general characteristics of antimicrobial drugs, determining the level of antimicrobial activity, antibacterial drugs, factor influencing antimicrobial drug effectiveness, drug resistance, antifungal, antiviral and antiprotozoal drugs.

Food and industrial microbiology – microbiology of food, food-borne pathogens.

Applied and industrial microbiology – microorganisms used in industrial microbiology, major products of industrial microbiology.

Recommended literature:

- 1. Black, J. G.: Microbiology, Wiley & Sons, Inc., 2008.
- 2. Johnson, T. R., Case, J.: Laboratory Experiments in Microbiology, 9th Ed., Pearson, 2010.
- 3. Kayser, F. H., Bienz, K. A., Eckert, J., Zinkernagel, R. M.: Medical Microbiology, Thieme, Stitgart-New York, 2001.
- 4. Levinson, W.: Review of Medical Microbiology and Immunology, McGraw-Hill International Edition, 2010.
- 5. Willey, J. M., Sherwood, L. M., Woolverton, C. J.: Prescott, Harley, and Klein's Microbiology, McGraw-Hill International Edition, 2008.

Course language:

English

Notes:

Teaching is carried out either face-to-face or remotely/hybrid learning using the MS Teams program. The teaching format is specified by the teacher at the beginning of the semester and updated continuously.

Course assessment

Total number of assessed students: 10

N	P	
0.0	100.0	

Provides: prof. RNDr. Mária Kožurková, CSc.

Date of last modification: 07.03.2023

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Selected Topics in Biochemistry

VKB/06

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours): Per week: 4 / 2 Per study period: 56 / 28

Course method: present

Number of ECTS credits: 10

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Elaboration of a seminar paper on a topic related to the subject and the topic of the student's doctoral studies. A discussion with the examiner about the topic of the seminar work, in which the student is given the opportunity to prove that they possess sufficient knowledge of the subject.

Learning outcomes:

Acquainting doctoral students with the most up-to-date findings in biochemistry.

Brief outline of the course:

Biomacromolecular structures, interactions of ligands with biomacromolecules, newly identified types of biologically active substances, proteomics, mechanisms of enzyme action, new findings in metabolism, apoptosis, supramolecular complexes, metabolites, hormonal processes, molecular physiology, bioenergetics.

Recommended literature:

Latest articles from scientific journals.

Course language:

English

Notes:

Course assessment

Total number of assessed students: 43

N	P
0.0	100.0

Provides: prof. Ing. Marián Antalík, DrSc.

Date of last modification: 07.03.2023

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VKBMB/04	Course ID: ÚCHV/ Course name: Selected Topics in Biochemistry and Molecular Biology VKBMB/04		
Course method: pre	re / Practice rse-load (hours): study period: 28 / 28 esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the cours	e :	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 42		
	N P		
0.0 100.0			
Provides: doc. RNDr	. Peter Pristaš, CSc.		
Date of last modifica	ition: 18.11.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ VKI/06	1 25		
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent		
Number of ECTS cr			
	ster/trimester of the cours	2:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 3			
	N	P	
0.0 100.0			
Provides: prof. MVDr. Juraj Koppel, DrSc., RNDr. Štefan Číkoš, DrSc.			
Date of last modifica	ition: 16.11.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VKFZ/06	1 5 65		
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent		
Number of ECTS cr			
	ster/trimester of the cours	e: 	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
	N	P	
0.0			
Provides: prof. MVD	r. Juraj Koppel, DrSc., RNI	Dr. Štefan Číkoš, DrSc.	
Date of last modifica	tion: 16.11.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: Dek. PF UPJŠ/JSD/14	Course name: Spring Scho	ool for PhD Students		
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d Course method: present				
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours Active participation i	se completion: in the Spring School of PhD	students of UPJŠ.		
Learning outcomes: By actively participating in the Spring School of PhD Students of UPJŠ, the PhD student demonstrates a high level of ability to process the issues of his dissertation for a multidisciplinary audience with an emphasis on clarifying the motivation, scientific problem, processing methodology and own contribution to the solution of the selected topic. The PhD student demonstrates the ability to professionally discuss various research topics, present his own positions and accept a plurality of opinions. Demonstrates the ability to communicate research results to a wider professional audience with adequate means and through the Slovak language.				
Brief outline of the course: 1. Interdisciplinary lectures from the fields of medicine, natural sciences, law, public affairs, humanities. Lecturers - top foreign or national experts from the mentioned fields. 2. Scientific lectures in sections created within related disciplines. Lecturers - top experts from UPJŠ from the mentioned fields. 3. Scientific contributions of PhD students in sections of related fields. 4. Panel discussions on the issue of PhD studies and current trends in the development of scientific disciplines at UPJŠ.				
Recommended literature: Proceedings of the Spring School of Doctoral Students.				
Course language:				
Notes:				
Course assessment Total number of assessed students: 187				
	abs	n		
100.0 0.0		0.0		
Provides: doc. RNDr	: Marián Kireš, PhD.			

Date of last modification: 08.11.2022

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ ZSP/04	ÚCHV/ Course name: Study Stay Abroad		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the co	urse:	_
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	Brief outline of the course:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 92			
abs n			
100.0 0.0			
Provides:		<u> </u>	
Date of last modifica	ition: 15.09.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CS	Sc.	_

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚCHV/ VBP/04	Course name: Supervision of Bachelor Thesis		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr	edits: 6		
Recommended seme	ster/trimester of the cours	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 318		
abs n			
100.0 0.0			
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ VPSV/04	Course ID: ÚCHV/ Course name: Supervision of a Students Scientific Work VPSV/04		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	Conditions for course completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	Brief outline of the course:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 79		
	abs	n	
100.0 0.0		0.0	
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSc		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚCHV/ TBFC/04	Course name: Trends in Biophysical Chemistry		
Course method: pre	re / Practice rse-load (hours): study period: 56 / 28 esent		
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Communications, che Biomimetic materials	f biological systems clogical systems cm ses cal systems of morphogenesis, signal transductions emotaxis cm methods and devices		
Voet,D. Voet,J.G. Bio	el,P.R Biophysical Chemistry, W.H. Freeman and Co., S. Francisco,1980 ochemistry, John Willey @Sons, 1990 W. Curtis Johnson, P. Shing Ho: Principles of Physical Biochemistry,		
Course language:			

Notes:

Course assessment		
Total number of assessed students: 34		
N P		
0.0	100.0	
Provides: prof. Ing. Marián Antalík, DrSc.		
Date of last modification: 18.11.2021		
Approved: prof. RNDr. Mária Kožurková, CSc.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚCHV/ PDS/18	ϵ		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:		
Number of ECTS cr	edits: 0		
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.	Course level: III.		
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 6		
	N	P	
0.0 100.0		100.0	
Provides:			
Date of last modifica	tion: 15.09.2021		
Approved: prof. RNI	Dr. Mária Kožurková, CSo	······································	