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Faculty: Faculty of Sc	
Course ID: ÚCHV/ BAM1/00	Course name: Biochemical Analytical Methods
Course type, scope an Course type: Lecture Recommended cour Per week: 2 / 1 Per s Course method: pres	e / Practice rse-load (hours): study period: 28 / 14
Number of ECTS cre	edits: 4
Recommended semes	ster/trimester of the course: 1.
Course level: I., II.	
Prerequisities:	
Conditions for course Absence of a maximu Exam carried out in w	-
Learning outcomes: The student will gain in analyzes in the bioc	comprehensive information about the methods and approaches that are used chemical laboratory.
 Processing and inte The effectiveness of reliability 	lytical methods in biochemistry erpretation of results of the chosen system of methods to ensure the required level of analytical for determination of biomacromolecules lytical chemistry s nethods
Recommended litera D. J. Holme, H. Peck:	ture: : Analytical Biochemistry, 1998 Cortón: Bioanalytical Chemistry, 2004

Notes:

Teaching is carried out in person or, if necessary, remotely using the tool MS Teams, BigBlueButton, etc. The form of teaching is specified by the teacher at the beginning of the semester, updated continuously.

Course assessment Total number of assessed students: 91									
A B C D E FX									
31.87	31.87 20.88 19.78 20.88 6.59 0.0								
Provides: doc. 1	Provides: doc. RNDr. Rastislav Varhač, PhD.								
Date of last modification: 16.11.2021									
Approved: prof	f. RNDr. Mária K	ožurková, CSc.							

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH BCHKBCH/14	HV/ Course na	me: Biochemist	ry and Clinical B	iochemistry	
Course type, sco Course type: Recommended Per week: Per Course method	course-load (h study period:				
Number of ECT	S credits: 4				
Recommended s		ter of the cours	e:		
Course level: II.					
Prerequisities: U	ÚCHV/BFC1a/0	1 and ÚCHV/KI	LB1/03 and ÚCH	V/BFC1b/03	
Conditions for a	course completi	on:			
Learning outcom	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Notes:					
Course assessme Total number of		ts: 79			
А	В	С	D	Е	FX
43.04	29.11	17.72	5.06	5.06	0.0
Provides:					
Date of last mod	lification: 07.02	.2023			
Approved: prof.	RNDr. Mária K	ožurková, CSc.			

University: P. J.	Šafárik Univer	sity in Košice			
Faculty: Faculty		5			
Course ID: ÚCH BCM/04	HV/ Course n	ame: Biochemistr	y of Microorga	nisms	
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practic course-load (Per study per	e hours):			
Number of ECT	S credits: 6				
Recommended	semester/trime	ester of the course	: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for a 2 tests test	course complet	ion:			
Learning outcome The aim of bio microorganisms	chemistry of n	nicroorgamism tea	aching is to ac	quire knowledge	in the field of
1	nysiology of m gy and genetic	icroorganisms; mi s; medical microb ntrol.			,
Willey, J.M., Sh McGraw-Hill In	k D., Achrey P. erwood L.M., V t. Ed., USA, 20	, Introduction to N Woolverton C.J., P 08 Wiley and Sons, I	rescott, Harley,		
Course languag	e:				
Notes:					
Course assessm Total number of		nts: 183			
А	В	C	D	E	FX
49.18	25.68	17.49	7.1	0.55	0.0
Provides: prof. 1	RNDr. Mária K	ožurková, CSc.		<u> </u>	
Date of last mod	lification: 11.1	1.2021			
A d		Kožurková, CSc.			

Faculty: Faculty					
	y of Science				
Course ID: ÚC BFP/08	HV/ Course n	ame: Biochemist	ry of Physiologi	cal Processes	
	Lecture 1 course-load () er study period	hours):			
Number of EC	ΓS credits: 4				
Recommended	semester/trime	ester of the cours	e: 2., 4.		
Course level: II	•				
Prerequisities:					
Conditions for	course complet	tion:			
Learning outco	mes:				
Physiology of s	egulatory mech	anisms of apoptos		ysiology and mus	scle contraction
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology	gy. Kidney physio of internal secretic	on, mechanism o aunders, Inc, Els 009 John Wiley	sevier. & Sons, Ltd.	nes. The second
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent B. Alberts, Mol Group. LLC. Články v časopi	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology isoch.	gy. Kidney physio of internal secretic ction pathways. th edition, 2010 S al Biochemistry, 2	on, mechanism o aunders, Inc, Els 009 John Wiley	sevier. & Sons, Ltd.	nes. The second
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent B. Alberts, Mol Group. LLC.	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology isoch.	gy. Kidney physio of internal secretic ction pathways. th edition, 2010 S al Biochemistry, 2	on, mechanism o aunders, Inc, Els 009 John Wiley	sevier. & Sons, Ltd.	nes. The second
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent B. Alberts, Mol Group. LLC. Články v časopi Course languag	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology isoch. ge:	gy. Kidney physio of internal secretic etion pathways. th edition, 2010 S al Biochemistry, 2 of the Cell, sixth o	on, mechanism o aunders, Inc, Els 009 John Wiley	sevier. & Sons, Ltd.	nes. The second
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent B. Alberts, Mol Group. LLC. Články v časopi Course languag Notes: Course assessm	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology isoch. ge:	gy. Kidney physio of internal secretic etion pathways. th edition, 2010 S al Biochemistry, 2 of the Cell, sixth o	on, mechanism o aunders, Inc, Els 009 John Wiley	sevier. & Sons, Ltd.	nes. The second
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent B. Alberts, Mol Group. LLC. Články v časopi Course languag Notes: Course assessm Total number of	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology isoch. ge: tent f assessed stude	gy. Kidney physio of internal secretic ction pathways. th edition, 2010 S al Biochemistry, 2 of the Cell, sixth o	on, mechanism o aunders, Inc, Els 009 John Wiley edition, 2002 Ga	sevier. & Sons, Ltd. rland Science, Ta	nes. The second
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent B. Alberts, Mol Group. LLC. Články v časopi Course languag Notes: Course assessm Total number of A 40.29	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology isoch. ge: tent f assessed stude B 25.9	gy. Kidney physio of internal secretic etion pathways. th edition, 2010 S al Biochemistry, 2 of the Cell, sixth of nts: 139	n, mechanism o aunders, Inc, Els 009 John Wiley edition, 2002 Ga	sevier. & Sons, Ltd. rland Science, Ta E 7.91	nes. The second
Endocrine syste messengers and Recommended L.S.Costanzo, P S. Reed, Essent B. Alberts, Mol Group. LLC. Články v časopi Course languag Notes: Course assessm Total number of A 40.29	ladder physiolog em, importance of signal-transduc literature: Physiology, four ial Physiologica ecular Biology isoch. ge: tent f assessed stude B 25.9 r. Nataša Tomáš	gy. Kidney physio of internal secretic etion pathways. th edition, 2010 S al Biochemistry, 2 of the Cell, sixth of nts: 139 C 16.55 sková, PhD., prof.	n, mechanism o aunders, Inc, Els 009 John Wiley edition, 2002 Ga	sevier. & Sons, Ltd. rland Science, Ta E 7.91	nes. The second

University: P. J. Šafárik University in Košice	
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Faculty: Faculty of Science

Course ID: ÚCHV/	Course name: Bioorganic chemistry
BOC/03	

Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 3 Per study period: 42

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

1. Individual work and activity in seminars.

2. Passing a written exam with a success rate of min. 51%.

Learning outcomes:

Metodology of organic chemistry used to understanding of processes in living forms. Mechanism of the basic biochemical processes including proteosynthesis, enzymatic catalysis, nucleic acid chemistry, photosynthesis.

Brief outline of the course:

1. Proximity effect in organic chemistry. Molecular adaptation ond recognition on supramolecular level.

2. Bioorganic chemistry of aminoacids and polypeptides. Analogy between organic reactions and biochemical transformations.

3. Chemistry of peptide bond. Nonribosomal synthesis of peptides.

4. Asymmetric synthesis of aminoacids, chiral organometal catalyzators.

5. Transition state analogues, antibodies as enzymes, chemical mutations, molecular recognition and synthesis of biologicaly active compounds.

6. Bioorganic synthesis of polynucleotides. Energy storage, DNA intercalates, chemical evolutions of biopolymers.

7. Enzymatic chemistry, introduction to catalysis and enzymes, multifunctional catalysis, chymotrypsin, stereocontrolled hydrolysis, immobilized enzymes in organic synthesis.

8. Enzymatic models. Host-guest complexation chemistry, crown ethers, chemistry of membranes, cyclodextrines, steroid templates. Biomimetic polyene cyclization.

9. Metal ions in proteins and biomolecules, carboxypeptidase, hydrolysis of aminoacid esters, amides, peptides.

10. Biomodel of photosynthesis and energy transfer, cobalt, vitamine B12. Chemistry of coenzymes, pyridoxalphosphate, suicide enzyme inactivators and affinity labels, tiamine pyrophosphate, biotin.

Recommended literature:

Voet J. : Biochemistry, Springer Verlag, 1998

Dugas H.: Bioorganic Chemistry, Springer Verlag, 1999.

Course languag	ge:				
Notes:					
Course assessm Total number o	nent f assessed studen	ts: 157			
А	В	С	D	Е	FX
82.8	5.1	7.01	3.82	1.27	0.0
Provides: RND	r. Ján Elečko, Ph	D., RNDr. Jana Š	paková Raschma	anová, PhD.	
Date of last mo	dification: 30.09	.2021			
Approved: prof	f. RNDr. Mária K	ožurková, CSc.			

University P I Šafá	rik University in Košice							
Faculty: Faculty of S								
BFC1a/01	Course name: Biophysical Chemistry I							
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	e / Practice rse-load (hours): study period: 28 / 28							
Number of ECTS cro	edits: 5							
Recommended seme	ster/trimester of the course: 1., 3.							
Course level: II.								
Prerequisities:								
Conditions for cours Test and oral examina								
Learning outcomes:								
Space and time connect Energy and mass con Physicochemical prop Reaction kinetics Ligand binding Nonequilibrium therr Dynamics of conserv Dissipative systems, a Stability of biomacro Interfaces and membr Dynamics of complex Structuralization of b	stration in living systems ections in biological systems nections in biological systems perties of water and cell liquids nodynamics ative systems, chaos attractors molecules ranes, membrane transports k biochemical process iosystems induced by diffusion							
P.Glansdorff, I.Prigog 1971 Voet,D. Voet,J.G. Bic Kersal E. van Holde, Prentise Hall, 1998 Articles from Journal Marschall, A.G., Bio Hoppe, W., Lohmann Peitgen, H. O., Jurgen Avnir,D (ed.)., The F	el,P.R Biophysical Chemistry, W.H. Freeman and Co., S. Francisco,1980 gine, Thermodynamics theory of structure, stability and fluctuations, Willey ochemistry, John Willey @Sons, 1990 W. Curtis Johnson, P. Shing Ho: Principles of Physical Biochemistry,							

	Harrison, L. G.,	, Kinetic Theory	of Living Pattrern,	Cambridge Univ. Pre	es., NY, 1993
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Harrison, L. G.	, Kinetic Theory	of Living Pattrer	n, Cambridge Ur	niv. Pres., NY, 19	93
Course langua	ge:				
Notes:					
Course assessn Total number o	nent f assessed studen	ts: 203			
А	В	С	D	Е	FX
12.32	15.76	37.44	21.67	12.81	0.0
Provides: doc.	RNDr. Rastislav	Varhač, PhD., pro	of. Mgr. Daniel J	ancura, PhD.	
Date of last mo	dification: 18.11	.2021			
Approved: pro:	f. RNDr. Mária K	ožurková, CSc.			

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚCHV/ Course name: Biophysical Chemistry II BFC1b/03							
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 4 Per study period: 28 / 56 Course method: present							
Number of ECTS credits: 8							
Recommended semester/trimester of the course: 2., 4.							
Course level: II.							
Prerequisities: ÚCHV/BFC1a/01							
Conditions for course completion: Examination							
Learning outcomes:							
General laboratory work problem with biological systems Properties of materials and fields Cryoscopy, pressure, density, surface tension, osmometry Callorimetry, microgravimetry Transport a hydrodynamic analysis Conductivity, ion selective and enzyme electrodes, dielectric spectroscopy Absorption spectroscopy, circular dichroism Raman and infrared spectroscopy, Spectrofluorescence, chemiluminescence, rapid kinetic techniques, Mossebauer spectr NMR, EPR spectroscopy Light, x-ray scattering Atomic field force measurements, tunneling spectroscopy Microscopy (electron, light, ultrasound)	roscopy						
Recommended literature: Cantor,C.R.,Schimmel,P.R Biophysical Chemistry, W.H. Freeman and Co., S. Francisc Kersal E. van Holde, W. Curtis Johnson, P. Shing Ho: Principles of Physical Biochem Prentise Hall, 1998 Atkins PW. Physical Chemistry, Oxford Univ. Press, Oxford, 1998 Hoppe W, Lohmann W, Markl H, Ziegler H (ed.) Biophysics, Springer- Verlag, Berlin Articles from Journals	istry,						
Course language:							
Notes:							

Course assessment Total number of assessed students: 192							
A B C D E FX							
13.02 20.31 33.33 19.79 13.02 0.52							
Provides: doc. 1	Provides: doc. RNDr. Rastislav Varhač, PhD., doc. RNDr. Gabriel Žoldák, DrSc.						
Date of last modification: 18.11.2021							
Approved: prof	f. RNDr. Mária K	ožurková, CSc.					

University: P. J.	Šafárik Univers	sity in Košice									
Faculty: Faculty	of Science										
Course ID: ÚCH PBT1/03	HV/ Course n	ame: Biotechnolo	ogy Practical								
Course type, sco Course type: P Recommended Per week: 5 Pe Course method	Practice l course-load (h er study period	nours):									
Number of ECT	S credits: 6										
Recommended	semester/trime	ster of the cours	e: 1., 3.								
Course level: II.											
Prerequisities:											
•	izuje prezenčne	ion: alebo dištančne emestra a priebež	•	roja MS Teams.	Formu výučby						
	ve knowlwdge o	of a variety of spec s from food and b		•••	ques, and obtain						
Food preservati	and practical a ves and their c	application of lac qualitative and qualitative conduction of the second	uantitative evide	ence. Antibiotics							
C.Fini, A.Florid CRC Press, Flor D. Sabolová, Ná	Škárka, Biocher i, V.N. Finelli, I rida, 1990. ivody na praktic	nical laboratory n B.Wittman-Liebol cké cvičenia z bio a/e-publikacia/#pf	d, Laboratory M technológie, Koš	lethodology in Bi							
Course languag	je:										
Notes:											
Course assessm Total number of		nts: 148									
A	В	С	D	Е							
66.22	26.35	6.08	0.68	0.68	0.0						
66.22		6.08 ová, PhD., univerz		0.68	0.0						
66.22	. Danica Sabolo	vvá, PhD., univerz		0.68	0.0						

University: P. J. Šafá	rik University in Košice	2				
Faculty: Faculty of S	cience					
Course ID: ÚCHV/ RP/14	5					
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: 6					
Recommended seme	ster/trimester of the co	ourse: 2.				
Course level: II.						
Prerequisities:						
the obtained experim assigned experiments experiments, success the evaluation "comp Learning outcomes:	and their evaluation in ful presentation of resul leted".	on a topic assigned by the teacher and evaluation of dition for successful completion is realization of the the form of presentation. After the implementation of lts and answering any comments, the teacher will give				
Brief outline of the c						
Recommended litera According to the reco Current journal litera	ommendations of projec	et supervisors.				
Course language: Slovak, english.						
Notes:						
Course assessment Total number of asses	ssed students: 241					
	abs	n				
	99.17	0.83				
RNDr. Zuzana Vargov prof. RNDr. Vladimír	/á, Ph.D., prof. RNDr. J	J., RNDr. Miroslava Matiková Maľarová, PhD., prof. Juraj Černák, DrSc., doc. RNDr. Juraj Kuchár, PhD., NDr. Ivan Potočňák, PhD., prof. Dr. Yaroslav Bazeľ,				

prof. RNDr. Vladimír Zeleňák, DrSc., doc. RNDr. Ivan Potočňák, PhD., prof. Dr. Yaroslav Bazeľ, DrSc., prof. Mgr. Vasil' Andruch, DSc., doc. RNDr. Katarína Reiffová, PhD., doc. RNDr. Taťána Gondová, CSc., doc. Ing. Viera Vojteková, PhD., RNDr. Rastislav Serbin, PhD., RNDr. Jana

Šandrejová, PhD., univerzitná docentka, Mgr. Michaela Rendošová, PhD., Mgr. Nikolas Király, PhD.

Date of last modification: 25.01.2022

University: P. J. Šafá	rik Univers	ity in Košice			
Faculty: Faculty of S	Science				
Course ID: ÚCHV/ KLB1/03	Course na	me: Clinical Bio	chemistry		
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice rse-load (he study perio	ours):			
Number of ECTS cr	redits: 5				
Recommended seme	ester/trimes	ter of the course	e: 1.		
Course level: II.					
Prerequisities:					
Conditions for cour	se completi	on:			
Learning outcomes:					
Brief outline of the o	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed studen	ts: 200			
А	В	С	D	Е	FX
62.5	23.0	10.5	2.0	2.0	0.0
Provides: MUDr. Ar	gela Molčá	nyiová, PhD., pro	of. RNDr. Mária	Kožurková, CSc	
Date of last modific:	ation: 07.03	.2023			
Approved: prof. RN	Dr. Mária K	ožurková, CSc.			

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/KK/07	Course name: Communication and Cooperation
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
student will actively solutions. The output for evalu presentation or a vide Learning outcomes: The goal of the subject language and community The student can demic contexts. The student can diassertiveness, empath	ent evaluation is his active participation in the seminar. It is expected that the participate in the discussions and will express their positions and possible nation will be the development of a project in the form of a Power Point to on a selected communication topic.
about active listening Empathy Short conversation communication) Cooperation About the basics of c About types, signs, ty Characteristics of the	ry ication and its means on (basic components of communication, language means of communication) and effective communication (principles and principles of effective ooperation /pes and factors of cooperation team (positions in the team) tructure, development, characteristics of a small social group, position of the

About leadership (characteristics of the leader, management, leadership styles)

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 281

abs	n	Z			
98.22	1.78	0.0			
Provides: Mgr. Ondrej Kalina, PhD., Mgr. Lucia Barbierik, PhD.					
Date of last modification: 12.09.2024					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCH DPO/22	IV/ Course na	me: Diploma Th	esis and its Def	fence	
Course type, sco Course type: Recommended Per week: Per Course method	course-load (h study period: : present				
Number of ECT					
Recommended s	emester/trimes	ster of the course	2:		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcon	nes:				
Brief outline of t	he course:				
Recommended li	iterature:				
Course language	2:				
Notes:					
Course assessme Total number of a		ts: 39			
A	В	С	D	Е	FX
74.36	17.95	7.69	0.0	0.0	0.0
Provides:		I		<u>.</u>	<u>.</u>
Date of last mod	ification: 14.01	.2022			
Approved: prof.	RNDr. Mária K	ožurková, CSc.		-	

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚCHV/ ENZ/04	Course name: Enzymology					
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): Idy period: 42					
Number of ECTS cr	edits: 5					
Recommended seme	ster/trimester of the course: 1., 3.					
Course level: II.						
Prerequisities:						
student passes the exa	Se completion: on of the exam, which consists of two parts: (i) written and (ii) oral part. The am if s/he obtains at least 60% of the points in the written part and at the same vers the asked questions in the oral part.					
Ability to determine reaction from experir	iple of enzyme catalysis. Learn to use the basic equations of enzyme kinetics. the basic kinetic and thermodynamic parameters of the enzyme-catalyzed nental measurements.					
 Enzyme catalysis - Cofactors. Active s 3D structure of pro Convergent and diver Ligand binding. Th Chemical kinetics. Regulations of enz Conformational ch Experimental dete catalysis. Determination of 	nical catalysis – theory of transition state.					

Alan Fersht "Structure and Mechanism in Protein Science: A Guide to Enzyme Catalysis and Protein Folding. " (3rd Ed. W. H. Freeman and Company, 1999) Robert A. Copeland: Enzymes (2nd edition), Wiley-VCH, 2000.

Course language:

Notes:							
Course assessm Total number o	nent f assessed studen	ts: 168					
А	В	С	D	Е	FX		
37.5 22.62 16.67 14.29 8.33 0.6							
Provides: prof.	Provides: prof. RNDr. Erik Sedlák, DrSc.						
Date of last modification: 14.11.2021							
Approved: prof	f. RNDr. Mária K	ožurková, CSc.					

i acuity. I acuity	of Science						
Course ID: ÚCE EMDP/03	Course ID: ÚCHV/ Course name: Experimental Methods to Master's Thesis						
	ractice course-load (h r study period:	ours):					
Number of ECT	S credits: 6						
Recommended	semester/trimes	ter of the cours	e: 1., 3.				
Course level: II.							
Prerequisities:							
Conditions for a The supervisor of week and at the	of the diploma th	esis evaluates th	e student's exper	rimental work inc	lividually every		
Learning outco Acquisition of e		hods necessary f	or the successful	solution of the d	iploma thesis.		
use of experime work with spect	perimental meth ntal instrumentat ral and chromat	tion techniques i ographic method	n the elaboration	s needed to solve of a diploma the aracterization of ethods.	sis, focusing or		
Recommended Current journal		ical online datab	ases.				
Course languag Slovak, english	e:						
Notes: Teaching is carr	n of teaching is s	-		form (BigBlueBu ginning of the sen	· · · · · · · · · · · · · · · · · · ·		
-	dated.						
Teams. The form	ent	ts: 421					
Teams. The form continuously up Course assessm	ent	ts: 421 C	D	E	FX		

RNDr. Slávka Hamuľaková, PhD., univerzitná docentka, doc. RNDr. Rastislav Varhač, PhD., RNDr. Danica Sabolová, PhD., univerzitná docentka, prof. Mgr. Vasiľ Andruch, DSc., prof. Dr.

Yaroslav Bazel', DrSc., doc. RNDr. Ladislav Janovec, PhD., doc. Ing. Viera Vojteková, PhD., doc. RNDr. Mariana Budovská, PhD., doc. RNDr. Mária Vilková, PhD., RNDr. Monika Tvrdoňová, PhD., RNDr. Ján Elečko, PhD., RNDr. Jana Špaková Raschmanová, PhD., RNDr. Zuzana Kudličková, PhD., RNDr. Rastislav Serbin, PhD., RNDr. Jana Šandrejová, PhD., univerzitná docentka

Date of last modification: 25.01.2022

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚCHV/ LCDP/15	Course ID: ÚCHV/ Course name: Laboratory Practice to Diploma Thesis CDP/15					
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	e: 3.				
Course level: II.						
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 asses	ssed students: 73					
	abs	n				
	98.63	1.37				
Erik Sedlák, DrSc., R		oc. RNDr. Viktor Víglaský, PhD., prof. RNDr. nD., doc. RNDr. Rastislav Varhač, PhD., RNDr.				
Date of last modifica	tion: 25.01.2022					
Approved: prof. RNI	Dr. Mária Kožurková, CSc.					

Faculty: Faculty of S	Science
Course ID: KF/ FMPV/22	Course name: Methodology of Science 1
Course type, scope a Course type: Lectu Recommended cou Per week: 1 / 1 Per Course method: pr	ure / Practice urse-load (hours): : study period: 14 / 14
Number of ECTS c	redits: 2
Recommended sem	ester/trimester of the course:
Course level: II.	
Prerequisities:	
than one seminar mu final control: during her activity. To be a	ent may have one unexcused absence in seminar at the most. Absence in more ist be reasoned and substituted by consultations. Conditions of continuous and the semester a student is continuously checked and assessed according to his/ warded the credits, a student must pass a test from knowledge obtained in the rs. Results of the test will make up the final grade.
science. Significant	at getting familiar with the basic issues of methodology and philosophy of part will be devoted to presenting the main concepts of the philosophy of
The course is aimed science. Significant science in the 20th co Brief outline of the • Falsificationism an • Development and o • Understanding the • Methodology of sc • Methodological an	at getting familiar with the basic issues of methodology and philosophy of part will be devoted to presenting the main concepts of the philosophy of entury and this aim will be achieved by reading the source and interpretive texts.
The course is aimed science. Significant science in the 20th co Brief outline of the • Falsificationism an • Development and o • Understanding the • Methodology of sc • Methodological an • W.V.O. Quine – the BILASOVÁ , V. – A FAJKUS, B.: Filoso BEDNÁRIKOVÁ, M DÉMUTH, A. Filoz FEYERABEND, P.:	at getting familiar with the basic issues of methodology and philosophy of part will be devoted to presenting the main concepts of the philosophy of entury and this aim will be achieved by reading the source and interpretive texts. course: Ind critical realism by K. R. Popper. critique of the Popper's concept. science development in the work by T. S. Kuhn. itentific research programmes of I. Lakatos. archism of P. Feyerabend. e issue of relation between theory and empiricism.
The course is aimed science. Significant science in the 20th co Brief outline of the • Falsificationism an • Development and o • Understanding the • Methodology of sc • Methodological an • W.V.O. Quine – the BILASOVÁ , V. – A FAJKUS, B.: Filoso BEDNÁRIKOVÁ, M DÉMUTH, A. Filoz FEYERABEND, P.:	 at getting familiar with the basic issues of methodology and philosophy of part will be devoted to presenting the main concepts of the philosophy of entury and this aim will be achieved by reading the source and interpretive texts. course: ad critical realism by K. R. Popper. critique of the Popper's concept. science development in the work by T. S. Kuhn. ientific research programmes of I. Lakatos. archism of P. Feyerabend. e issue of relation between theory and empiricism. ature: NDREANSKÝ, E.: Epistemológia a metodológia vedy. Prešov: FF PU 2007. fie a metodologie vědy. Praha: Academia 2005. M. Úvod do metodológie vied. Trnavská univerzita: Trnava 2013. ofické aspekty dejín vedy. Trnavská univerzita: Trnava 2013. Proti metodě. Prel. J. Fiala. Praha: Aurora 2001.

Course assessment Total number of assessed students: 6							
А	A B C D E FX						
100.0	0.0	0.0	0.0	0.0	0.0		
Provides: prof. PhDr. Eugen Andreanský, PhD.							
Date of last modification: 01.02.2022							
Approved: prof. RNDr. Mária Kožurková, CSc.							

University: P.	J. Šafárik	University in Košice
University. 1.	J. Dululik	

Faculty: Faculty of Science

Course ID: ÚCHV/
BMB1/03Course name: Modern Trends in Biochemistry and Molecular Biology

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 semester/trimester of the course: 1.

Course level: II.

Prerequisities:

Conditions for course completion:

Participation in lectures (also by distance learning).

The lecturer conducting the lecture and related seminar will excuse the justified absence of the student (sickness, family reasons, etc.) at a maximum of two lectures/seminars during the semester. In the event of longer-term justified absence (e.g. due to sickness), the student must provide evidence of mastery of the missed course content by means of an agreed substitute; oral examination

Learning outcomes:

To give an overview on modern biochemistry and molecular biology methods and its application in practice.

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. 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:

Alberts et al: Molecular Biology of the Cell, Garland Publishing, 1994

Watson et al., Recombinant DNA, New York, 1992

Bloomfield et al., Nucleic acids - structures, properties and function, Canada, 1999 Scientific reports

Course language:

Notes:

Course assessment Total number of assessed students: 218							
А	В	С	D	Е	FX		
28.9	24.31	27.52	14.68	4.13	0.46		
Provides: doc. RNDr. Viktor Víglaský, PhD.							
Date of last modification: 12.11.2021							
Approved: prof. RNDr. Mária Kožurková, CSc.							

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ Course name: Molecular modeling MM1/00				
Course type, scope a Course type: Lectur Recommended cou Per week: 1 / 3 Per Course method: pre	re / Practice rse-load (hours): study period: 14 / 42			
Number of ECTS cr	edits: 4			
Recommended seme	ster/trimester of the course:			
Course level: II.				

Prerequisities:

Conditions for course completion:

The examination can consist of written and oral examination as the examiner may determine. In order to pass this course, each student must complete ALL of the following compulsory requirements: Students may only miss 1 exercise session. Students must complete 10 assignments (and submit them as reports) as there are specified in the textbook (Lit.4). Students must obtain at least 51 percent of the total number of points of the written examination. The final evaluation is assigned on the basis of the mark of the written examination. Students are assigned a grade in the course as follows: 100 - 91% (A), 90 - 81% (B), 80 - 71% (C), 70 - 61% (D), 60 - 51% (E), 50% and less FX.

Learning outcomes:

Basic skills and theory necessary for the realisation of the computational experiments in chemistry using specialized software packages. Students will be able to perform theoretical studies of the structure and electronic properties of the small and middle-sized molecules and study the thermodynamical and structural aspects of the chemical reactions.

Brief outline of the course:

Principles of molecular modeling. Molecular graphics. Graphics and modeling software. Internet tools for graphics and modeling. Representation of the shape of molecules. Computational chemistry. Force field methods and molecular mechanics. Energy minimization. Molecular mechanics: scope, limitations and development. Quantum mechanics. Time-independent Schrodinger equation. Hartree-Fock and Roothaan equations. Ab initio methods. Correlation energy. Configuration interaction. Moller-Plesset perturbation theory. Semiempirical methods, MNDO, AM1, PM3, PM7. Methods of electron density functionals. Hybrid QM / MM methods. Simulation methods. Monte Carlo method, Molecular dynamics.

Application of molecular modeling. Small molecules. Geometry of molecules. Thermochemistry. Intermolecular interactions. Modeling of drug-receptor complexes. Sites of drug action. Molecular mechanism of drugs action. Origin and chemistry of drug binding to the receptor. Receptor - the primary sites of drugs action. Computer Aided Drug Design (CADD). The contribution of CADD to the development of new drugs. Theoretical analysis of drug-receptor interaction. Ligand design methods. Solvent effect.

Recommended literature:

- 1. LEACH, Andrew R.: Molecular Modelling: Principles and Applications.
- 2. JENSEN, Frank: An Introduction to Computational Chemistry.
- 3. Manuals for MOPAC, HYPERCHEM, GAMESS, GAUSSIAN.
- 4. Praktikum z molekulového modelingu / Ladislav Janovec

Course language:

slovak language and english language

Notes:

Teaching is carried out in person or, if necessary, online using the MS Teams platform. The form of teaching is specified by the teacher at the beginning of the semester, updated continuously

Course assessment

Total number of assessed students: 82

А	В	С	D	Е	FX
82.93	17.07	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Ladislav Janovec, PhD.

Date of last modification: 11.08.2022

University: P. J. Safár	rik University in Košice
Faculty: Faculty of So	cience
Course ID: ÚCHV/ NKF/22	Course name: Nucleic Acids - Structure and Function
Course type, scope an Course type: Lecture Recommended cour Per week: 3 / 0 Per s Course method: pres	re / Practice rse-load (hours): study period: 42 / 0
Number of ECTS cre	edits: 4
Recommended semes	ster/trimester of the course:
Course level: II.	
Prerequisities:	
(sickness, family reasons the need for a substitute	ting the lecture/seminar will excuse the justified absence of the student ons, etc.) at a maximum of two lectures/seminars during the semester without tute. In the event of longer-term justified absence (e.g. due to sickness), the e evidence of mastery of the missed course content by means of an agreed mation
Learning outcomes:	
of cancer - oncogeness DNA repair mechaniss Current trends and ad metabolism. Gene the The classification of v on viruses. Biochemis Pandemic viruses - Co Prions. Aptamers and Molecular basis of th	 Molecular basis of neoplastic cell transformation leading to development s, tumor suppressing genes, regulatory regions of DNA. Gene mutations and sms. Induced pluripotent stem cells. dvances in the study of nucleic acids, their biological significance in cell erapy. Gene editing. Gene silencing. viruses based on genetic material, the effect of physical and chemical factors stry of viruses. Virus replication. Viral oncogenicity. Retroviruses and HIV. ovid, SARS, MERS, Ebola, influenza papillomaviruses.
diagnostic.	
diagnostic. Recommended litera	ture:
	ture:

101011101						
А	В	С	D	Е	FX	
0.0	0.0	100.0	0.0	0.0	0.0	

Provides: doc. RNDr. Viktor Víglaský, PhD.

Date of last modification: 18.01.2022

University: P. J. Šafá	irik Univers	ity in Košice			
Faculty: Faculty of S	Science				
Course ID: ÚCHV/ PAT1/03	Course na	me: Patobiocher	nistry		
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 3 Per Course method: pr	re / Practice rse-load (h study perio esent	ours):			
Number of ECTS ci	_				
Recommended seme	ester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities: ÚCH	V/KLB1/03	3			
Conditions for cour	se completi	on:			
Learning outcomes:					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	essed studen	ts: 195			
А	В	С	D	Е	FX
64.62	18.97	10.26	5.13	1.03	0.0
Provides: MUDr. Ar	igela Molčá	nyiová, PhD., pro	of. RNDr. Mária	Kožurková, CSc.	
Date of last modific	ation: 07.03	0.2023			
Approved: prof. RN	Dr. Mária K	ožurková, CSc.		_	

University: P. J. Ša	fárik Univers	ity in Košice				
Faculty: Faculty of	Science					
Course ID: KF/ FILA/22	Course name: Philosophical Antropology					
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: p	ctice ourse-load (he tudy period:	ours):				
Number of ECTS	credits: 2					
Recommended sem	nester/trimes	ter of the course	•			
Course level: II.						
Prerequisities:						
Conditions for cou	irse completi	on:				
Learning outcome	s:					
Brief outline of the	e course:					
Recommended lite	erature:					
Course language:						
Notes:						
Course assessment Total number of as		ts: 0				
A	В	С	D	Е	FX	
0.0	0.0	0.0	0.0	0.0	0.0	
Provides: doc. PhD	Dr. Kristína Bo	osáková, PhD.				
Date of last modifi	cation: 01.02	.2022				
Approved: prof. R	NDr. Mária K	ožurková, CSc.				

Course language:

Slovak, English

Notes:

Teaching is carried out in person or, if necessary, remotely using the tool MS Teams, BigBlueButton, etc. The form of teaching is specified by the teacher at the beginning of the semester, updated continuously.

Course assessment

Total number of assessed students: 210

А	В	С	D	Е	FX
30.48	19.52	23.33	15.71	10.0	0.95
Provides: prof. RNDr. Erik Sedlák, DrSc., doc. RNDr. Rastislav Varhač, PhD.					

Date of last modification: 16.11.2021

	· · · · · · · · · · · · · · · · · · ·
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aerobic Exercise
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
- active participation	e completion: sful course completion: in line with the study rule of procedure and course guidelines ce of all tasks- aerobics, water exercise, yoga, Pilates and others
course syllabus and re Performance standard Upon completion of t - perform basic aerob - conduct verbal and re	rates relevant knowledge and skills in the field, which content is defined in the ecommended literature. d: the course students are able to meet the performance standard and: tics steps and basics of health exercises, non-verbal communication with clients during exercise, e the process of physical recreation in leisure time
Brief outline of the c Brief outline of the co 1. Basic aerobics – lo 2. Basics of aqua fitm 3. Basics of Pilates 4. Health exercises 5. Bodyweight exerci 6. Swimming 7. Relaxing yoga exerci 8. Power yoga	burse: w impact aerobics, high impact aerobics, basic steps and cuing ess ses

 ŽECHOVSKÁ, I., MILEROVÁ, H., NOVOTNÁ, V. Aqua-fitness. Praha: Grada. 136 s. EVANS, M., HUDSON, J., TUCKER, P. 2001. Umění harmonie: meditace, jóga, tai-či, strečink. 192 s. JARKOVSKÁ, H., JARKOVSKÁ, M. 2005. Posilováni s vlastním tělem 417 krát jinak. Praha: Grada. 209 s. KOVAŘÍKOVÁ, K. 2017. Aerobik a fitness. Karolium, 130 s. 				
Course language: Slovak language				
n				
90.32				
Date of last modification: 29.03.2022				

University: P. J. Ša	afárik Universi	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: KF/ FIVYC/22	Course na Introductio		pics in Philosop	hy of Education (General
Course type, scop Course type: Lec Recommended co Per week: 1 / 1 P Course method:	ture / Practice ourse-load (he er study perio	ours):			
Number of ECTS	credits: 2				
Recommended ser	mester/trimes	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for cou	urse completi	o n:			
Learning outcome	28:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as	-	ts: 2			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: PhDr. D	ušan Hruška, I	PhD.			
Date of last modif	ication: 27.04	.2022			
Approved: prof. R	NDr. Mária K	ožurková, CSc.			

	-
Faculty: Faculty of S	cience
Course ID: ÚCHV/ SP1/14	Course name: Semestral Project I
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:
Number of ECTS cro	edits: 4
Recommended seme	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
original papers, its pr After a successful pre "completed". Learning outcomes: Mastering the indepe	ndent and creative processing of the assigned topic using the latest scientific
literature.	
1	ourse: entific databases, resp. other, by the teacher suggested, accessible databases.
Selection of obtained Finding relevant orig Study of selected pap	databases. Iring to the assignement of the teacher. results. inal articles. pers. ed information into presentation.
Specific search accod Selection of obtained Finding relevant orig Study of selected pap Processing of obtained Presentation of the re Recommended litera WoS and Scopus scie	databases. Iring to the assignement of the teacher. results. inal articles. pers. ed information into presentation. esults.
Specific search accod Selection of obtained Finding relevant orig Study of selected pap Processing of obtained Presentation of the re Recommended litera WoS and Scopus scie	databases. Iring to the assignement of the teacher. results. inal articles. bers. ed information into presentation. sults. hture: entific databases, Science direct and other accessible websites of scientific

Course assessment Total number of assessed students: 235 abs n				
abs	n			
99.57	0.43			

Provides: RNDr. Rastislav Serbin, PhD., prof. RNDr. Mária Kožurková, CSc., prof. Dr. Yaroslav Bazel', DrSc., doc. RNDr. Ján Imrich, CSc., doc. RNDr. Miroslava Martinková, PhD., univerzitná profesorka, prof. RNDr. Erik Sedlák, DrSc., RNDr. Nataša Tomášková, PhD., doc. RNDr. Viktor Víglaský, PhD., doc. RNDr. Rastislav Varhač, PhD., RNDr. Danica Sabolová, PhD., univerzitná docentka, RNDr. Jana Šandrejová, PhD., univerzitná docentka, doc. RNDr. Ivan Potočňák, PhD., RNDr. Marián Fabián, CSc., doc. RNDr. Miroslav Almáši, PhD., RNDr. Miroslava Matiková Maľarová, PhD., prof. RNDr. Zuzana Vargová, Ph.D., prof. RNDr. Juraj Černák, DrSc., doc. RNDr. Juraj Kuchár, PhD., prof. RNDr. Vladimír Zeleňák, DrSc., Mgr. Michaela Rendošová, PhD., Mgr. Nikolas Király, PhD., prof. Dr. Andrii Vyshnikin, PhD., Serhii Zaruba, PhD.

Date of last modification: 24.01.2022

University: D I Čett	
	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚCHV/ SP2/14	Course name: Semestral Project II
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:
Number of ECTS cro	edits: 6
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
the teacher. The cone and their evaluation successful presentation "completed". Learning outcomes: Mastering independe	ks in the laboratory and their realization according to the instructions of dition for successful completion is realization of the assigned experiments in the form of presentation. After the implementation of experiments on of results and answering any comments, the teacher will give the evaluation ent and creative work concerning the preparation and implementation of s in the laboratory on the basis of the assigned topic and the ability to present
rules of safety at work Design of experiment rules of safety at work Realization of the exp	tal work based on the study of the original literature, taking into account the k and laboratory equipment. tal work based on the study of the original literature, taking into account the k and laboratory equipment. periment. The obtained results and their processing into the form of presentation.
Recommended litera Literature as recomm Current papers.	iture: lendation by the teacher.
Course language: Slovak, English.	
biovar, English.	

Course assessment Total number of assessed students: 159 abs				
abs	n			
100.0	0.0			

Provides: RNDr. Rastislav Serbin, PhD., prof. RNDr. Mária Kožurková, CSc., prof. Mgr. Vasiľ Andruch, DSc., prof. Dr. Yaroslav Bazeľ, DrSc., prof. RNDr. Erik Sedlák, DrSc., doc. RNDr. Miroslava Martinková, PhD., univerzitná profesorka, doc. RNDr. Andrea Straková Fedorková, PhD., RNDr. Monika Tvrdoňová, PhD., doc. RNDr. Mária Ganajová, CSc., prof. RNDr. Jozef Gonda, DrSc., doc. Ing. Viera Vojteková, PhD., prof. RNDr. Vladimír Zeleňák, DrSc., doc. RNDr. Ján Imrich, CSc., doc. RNDr. Ivan Potočňák, PhD., doc. RNDr. Katarína Reiffová, PhD., RNDr. Nataša Tomášková, PhD., doc. RNDr. Viktor Víglaský, PhD., RNDr. Danica Sabolová, PhD., univerzitná docentka, doc. RNDr. Rastislav Varhač, PhD., doc. RNDr. Peter Pristaš, CSc., univerzitný profesor, RNDr. Jana Šandrejová, PhD., univerzitná docentka, doc. RNDr. Miroslav Almáši, PhD., RNDr. Miroslava Matiková Maľarová, PhD., prof. RNDr. Zuzana Vargová, Ph.D., prof. RNDr. Juraj Černák, DrSc., doc. RNDr. Juraj Kuchár, PhD., Mgr. Michaela Rendošová, PhD., Mgr. Nikolas Király, PhD.

Date of last modification: 25.01.2022

Faculty: Faculty	of Science				
Course ID: ÚCH SDP/03	HV/ Course na	me: Seminar to	Diploma Thesis		
Course type: P Recommended	course-load (he sr study period:	ours):			
Number of ECT	S credits: 2				
Recommended	semester/trimes	ter of the cour	se: 4.		
Course level: II.					
Prerequisities:					
for serious reaso completing the o student. Learning outcom After completing	mes: g the course, the teach	, fulfillment of er will give an student is able	alternative criter evaluation based to work indepen	in a maximum of ia assigned by th on the activity an dently in writing	e teacher. Afte nd results of the
Brief outline of General principl phenomenon. Pr	the course: es of thesis writir rocessing of expe	ng, formal requi		na thesis, plagiari ables, figures and	
Recommended As recommended	literature: d by the teacher.				
Course languag Slovak, English	e:				
Notes:					
Course assessm Total number of	ent assessed student	ts: 397			
А	В	С	D	Е	FX
96.22	1.76	1.01	0.25	0.25	0.5
	NDr. Andrea Str	aková Fedorko	vá, PhD., prof. R	L NDr. Mária Kožu	ırková, CSc.,

Potočňák, PhD., doc. RNDr. Taťána Gondová, CSc., doc. RNDr. Katarína Reiffová, PhD., prof. Mgr. Vasiľ Andruch, DSc., prof. RNDr. Renáta Oriňaková, DrSc., RNDr. Miroslava Matiková Maľarová, PhD., doc. RNDr. Juraj Kuchár, PhD., doc. RNDr. Miroslav Almáši, PhD., RNDr. Rastislav Serbin, PhD., Mgr. Michaela Rendošová, PhD., Mgr. Nikolas Király, PhD., RNDr. Jana Shepa, PhD.

Date of last modification: 25.01.2022

Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVa/11	Course name: Sports Activities I.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: I., II.	
Prerequisities:	
Conditions for cours Min. 80% of active p	articipation in classes.
They have a great in	their forms prepare university students for their professional and personal life pact on physical fitness and performance. Specialization in sports activitie strengthen their relationship towards the selected sport in which they also
activities aerobics; ai yoga, power yoga, p tennis, chess, volleyb Additionally, the Inst offers winter courses	ourse: ical education and sport at the Pavol Jozef Šafárik University offers 20 sport kido, basketball, badminton, body-balance, body form, bouldering, floorbal vilates, swimming, fitness, indoor football, SM system, step aerobics, tabl
[online] Dostupné na BUZKOVÁ, K. 2006 8024715252. JARKOVSKÁ, H, JA Grada. ISBN 978802 KAČÁNI, L. 2002. F 8089197027. KRESTA, J. 2009. Fu LAWRENCE, G. 201	05. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. : https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571 5. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN ARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha:

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 15203

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
86.07	0.07	0.0	0.0	0.0	0.05	8.67	5.15

Provides: Mgr. Patrik Berta, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Marcel Čurgali, Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	irik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚTVŠ/ TVb/11	Course name: Sports Activities II.
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce rse-load (hours): ıdy period: 28
Number of ECTS ci	redits: 2
Recommended seme	ester/trimester of the course: 2.
Course level: I., II.	
Prerequisities:	
Conditions for cour active participation i	se completion: n classes - min. 80%.
They have a great in	l their forms prepare university students for their professional and personal life npact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also
activities aerobics; a yoga, power yoga, j tennis, chess, volley Additionally, the Ins offers winter course	ourse: ical education and sport at the Pavol Jozef Šafárik University offers 20 sports ikido, basketball, badminton, body-balance, body form, bouldering, floorball pilates, swimming, fitness, indoor football, SM system, step aerobics, table
[online] Dostupné na BUZKOVÁ, K. 2000 8024715252. JARKOVSKÁ, H, J. Grada. ISBN 978802 KAČÁNI, L. 2002. I 8089197027. KRESTA, J. 2009. F LAWRENCE, G. 20	05. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. a: https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571 6. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN ARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha:

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 13788

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
83.84	0.49	0.01	0.0	0.0	0.04	11.18	4.43

Provides: Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Marcel Čurgali, Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVc/11	Course name: Sports Activities III.
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): Idy period: 28
Number of ECTS cr	redits: 2
Recommended seme	ester/trimester of the course: 3.
Course level: I., II.	
Prerequisities:	
Conditions for cours min. 80% of active p	se completion: articipation in classes
They have a great in	their forms prepare university students for their professional and personal life npact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also
activities aerobics; ai yoga, power yoga, p tennis, chess, volleyt Additionally, the Ins offers winter courses	ourse: ical education and sport at the Pavol Jozef Šafárik University offers 20 sports ikido, basketball, badminton, body-balance, body form, bouldering, floorball bilates, swimming, fitness, indoor football, SM system, step aerobics, table
[online] Dostupné na BUZKOVÁ, K. 2000 8024715252. JARKOVSKÁ, H, JA Grada. ISBN 978802 KAČÁNI, L. 2002. H 8089197027. KRESTA, J. 2009. F LAWRENCE, G. 20	05. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. :: https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571 5. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN ARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha:

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 9104

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.38	0.07	0.01	0.0	0.0	0.02	4.46	7.06

Provides: Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ TVd/11	Course name: Sports Activities IV.
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 4.
Course level: I., II.	
Prerequisities:	
Conditions for cours min. 80% of active p	e completion: articipation in classes
They have a great in	their forms prepare university students for their professional and personal life spact on physical fitness and performance. Specialization in sports activities strengthen their relationship towards the selected sport in which they also
activities aerobics; ai yoga, power yoga, p tennis, chess, volleyb Additionally, the Ins offers winter courses	ourse: ical education and sport at the Pavol Jozef Šafárik University offers 20 sport kido, basketball, badminton, body-balance, body form, bouldering, floorball ilates, swimming, fitness, indoor football, SM system, step aerobics, table
[online] Dostupné na BUZKOVÁ, K. 2006 8024715252. JARKOVSKÁ, H, JA Grada. ISBN 978802 KAČÁNI, L. 2002. F 8089197027. KRESTA, J. 2009. Fu LAWRENCE, G. 201	05. Plávanie. Banská Bystrica: FHV UMB. 198s. ISBN 80-8083-140-8. : https://www.ff.umb.sk/app/cmsFile.php?disposition=a&ID=571 5. Fitness jóga, harmonické cvičení těla I duše. Praha: Grada. ISBN ARKOVSKÁ, M. 2005. Posilování s vlastním tělem 417 krát jinak. Praha:

VOMÁČKO, S. BOŠTÍKOVÁ, S. 2003. Lezení na umělých stěnách. Praha: Grada. 129s. ISBN 8024721743.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 5839

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
82.51	0.27	0.03	0.0	0.0	0.0	8.25	8.92

Provides: Mgr. Marcel Čurgali, Mgr. Agata Dorota Horbacz, PhD., Mgr. Dávid Kaško, PhD., Mgr. Patrik Berta, Mgr. Ladislav Kručanica, PhD., Mgr. Richard Melichar, Mgr. Petra Tomková, PhD., Mgr. Alena Buková, PhD., univerzitná docentka, doc. PaedDr. Ivan Uher, MPH, PhD., prof. RNDr. Stanislav Vokál, DrSc., Mgr. Zuzana Küchelová, PhD.

Date of last modification: 07.02.2024

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚCHV/ SVKBCH/03	Course name: Students Sc	ientific Conference - Seminar and Presentation
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): Idy period: 28	
Number of ECTS cr	edits: 4	
Recommended seme	ster/trimester of the cours	e:
Course level: II.		
Prerequisities:		
Conditions for cours	se completion:	
Learning outcomes:		
Brief outline of the c	course:	
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 10	
	abs	n
	100.0	0.0
Provides: prof. RND	r. Mária Kožurková, CSc.	
Date of last modifica	ntion: 20.09.2021	
Approved: prof. RNI	Dr. Mária Kožurková, CSc.	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ LKSp/13	Course name: Summer Course-Rafting of TISA River
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
- active participation	sful course completion: in line with the study rule of procedure and course guidelines ce of all tasks: carrying a canoe, entering and exiting a canoe, righting a canoe,
course syllabus and re Performance standard Upon completion of t - implement the acqu - implement basic ski - determine the right	he course students are able to meet the performance standard and: ired knowledge in different situations and practice, lls to manipulate a canoe on a waterway,
5. Canoe lifting and c	burse: ficulty of waterways ting ning using an empty canoe earrying n the water without a shore contact be ut of the water

11. Capsizing
12. Commands
Recommended literature:

JUNGER, J. et al. Turistika a športy v prírode. Prešov: FHPV PU v Prešove. 2002. ISBN 8080680973.
Internetové zdroje:

STEJSKAL, T. Vodná turistika. Prešov: PU v Prešove. 1999.
Dostupné na: https://ulozto.sk/tamhle/UkyxQ2lYF8qh/name/Nahrane-7-5-2021-v-14-46-39#!
ZGDjBGR2AQtkAzVkAzLkLJWuLwWxZ2ukBRLjnGqSomICMmOyZN==

Course language:

Slovak language

Notes:

Total number of assessed students: 232

1

abs

36.64

Provides: Mgr. Dávid Kaško, PhD.

Date of last modification: 29.03.2022

Approved: prof. RNDr. Mária Kožurková, CSc.

n

63.36

University: P. J. Š	afárik Universit	y in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚCHV/ Course name: Xenobiochemistry XBCH/04					
Course type, scop Course type: Lea Recommended o Per week: 3 Per Course method:	cture ourse-load (ho study period: 4	urs):			
Number of ECTS	credits: 5				
Recommended se	mester/trimest	er of the cours	e: 2., 4.		
Course level: II.					
Prerequisities:					
Conditions for co Written test, from	-		at least 51 %.		
Learning outcom Students will have		xenobiotics me	tabolism in livin	g organisms.	
Brief outline of the Characterization of reactions - oxidati and their effects, l	of metabolism of metabolism of netabolism of the second second second second second second second second second	ydrolysis, conju		51	
Recommended lit Z. Ďuračková: Vo Z.Vodrážka : Bioc A. Jindra: Biochén	ľné radikály a a hémia, Praha, 1	996.		-	
Course language:					
Notes:					
notes:					
Course assessmer Total number of a		s: 104			
Course assessmer		c 104	D	E	FX
Course assessmer Total number of a	ssessed students		D 5.77	E 3.85	FX 0.0
Course assessmer Total number of a A 56.73	B 21.15	C 12.5	5.77		
Course assessmer Total number of a A	B 21.15 Danica Sabolova	C 12.5 á, PhD., univerz	5.77		