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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KF/ Course name: Ancient Philosophy and Present Times AFS/05 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:** 2. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 31 C A В D Е FX 80.65 6.45 6.45 0.0 6.45 0.0 Provides: Doc. PhDr. Peter Nezník, CSc. Date of last modification: 17.09.2020 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Biochemical Analytical Methods

BAM1/00

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

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course:

Course level: I., II.

Prerequisities:

Conditions for course completion:

Written examination

Learning outcomes:

Brief outline of the course:

General principles of analytical biochemistry. Introduction to biomolecules. Application of spectroscopy. Centrifugation and separation. Chromatography of biomolecules. Principles and application of electrophoresis. Application of mass spectrometry. Immunochemical techniques Ions, electrodes and biosensors.

Recommended literature:

D. J. Holme, H. Peck: Analytical Biochemistry, 1998

S. R. Mikkelsen, E. Cortón: Bioanalytical Chemistry, 2004

V. A. Gault, N. H. McClenaghan: Understanding Bioanalytical Chemistry: Principles and

applications, 2009

Course language:

Notes:

Course assessment

Total number of assessed students: 65

A	В	С	D	Е	FX
41.54	21.54	13.85	20.0	3.08	0.0

Provides: RNDr. Rastislav Varhač, PhD.

Date of last modification: 04.02.2016

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Biochemistry and Bioorganic Chemistry BIBOCST/20 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of ECTS credits: 4** Recommended semester/trimester of the course: Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 10 C Α В D Е FX 60.0 20.0 20.0 0.0 0.0 0.0 **Provides:** Date of last modification: 15.04.2021 Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Biochemistry and Clinical Biochemistry BCHKBCH/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of ECTS credits: 4 Recommended semester/trimester of the course:** Course level: II. Prerequisities: ÚCHV/BFC1a/01, ÚCHV/KLB1/03, ÚCHV/BFC1b/03 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 59 C Α В D Е FX 44.07 30.51 18.64 3.39 3.39 0.0 **Provides:** Date of last modification: 03.05.2015 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ C

Course name: Biochemistry of Microorganisms

BCM/04

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: 6

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

2 tests

test

Learning outcomes:

The aim of biochemistry of microorgamism teaching is to acquire knowledge in the field of microorganisms.

Brief outline of the course:

Structure and physiology of microorganisms; microbial nutrition, growth and control; microbial molecular biology and genetics; medical microbiology; immunology and applied microbiology; microbial diseases and their control.

Recommended literature:

McCall D., Stock D., Achrey P., Introduction to Microbiology, Blackwell Science, USA, 2001 Willey, J.M., Sherwood L.M., Woolverton C.J., Prescott, Harley, and Klein's Microbiology, McGraw-Hill Int. Ed., USA, 2008

Black J.G., Microbiology, John Wiley and Sons, USA, 2008

Course language:

Notes:

Course assessment

Total number of assessed students: 164

A	В	С	D	Е	FX
51.22	25.0	16.46	6.71	0.61	0.0

Provides: prof. RNDr. Mária Kožurková, CSc.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Biochemistry of Physiological Processes

BFP/04/08

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Cell cycle; regulation mechanism of embryogenesis; apoptosis and degradation of biomacromolecules; regeneration processes; biochemical specialisation of inner cell particles; specialisation of body organs; metabolic functions of the liver and the kidney; the endocrine system, hormones; second messengers; generation and conduction of action potentials; synaptic transmission; immune system; blood sedimentation rate; communication between organisms; symbiosis; ecology.

Recommended literature:

D. Voet, J.G. Voetová, Biochemie, Viktoria Publishing, Praha, 1994

Alberts a kol., Molecular Biology of The Cell, 3rd edition, Garland Publishing, New York, 1994 H. Tedeshi, Cell Physiology, www.cellphysiology.com

Articles from Journals

Course language:

Notes:

Course assessment

Total number of assessed students: 118

A	В	С	D	Е	FX
43.22	27.12	14.41	11.02	4.24	0.0

Provides: prof. Ing. Marián Antalík, DrSc., RNDr. Nataša Tomášková, PhD.

Date of last modification: 03.05.2015

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚCHV/ BBA1/03	Course name: Bioenergetics and Bioelectronics
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): dy period: 42
Number of ECTS cr	edits: 5
Recommended seme	ster/trimester of the course:
Course level: II.	
Prerequisities:	
Conditions for cours	se completion:
Learning outcomes:	
Photosynthesis, bacter Oxidative phosphory ATPases. Membrane transport. ATP metabolism. Electron transport in Electric sources, batter Organic electric mater Photolysis of water Organic a biological Molecular films, nan-	P, polyphosphates. ain, mitochondria, chloroplast, chemoautotrops. eriorodopsin. lation, chemical gradient. biomacromolecules. ery. erials. memories otechnology, Integrated system between neurons and electronics
M. Grätzel, ed., Ener 1983 L.A. Blumenfeld, Ph	á, Biochémie, Victoria Publishing, Praha, 1994 gy Resources throught photochemistry and catalysis, Academic Press, NY, ysics of bioenergetic processes, Springer-Verlag, Berlin, 1983 to J. L., Stryer L., Biochemistry, WH Freeman and Company, NY, 2007
Course language:	
Notes:	

Course assessment							
Total number o	Total number of assessed students: 13						
A	В	С	D	Е	FX		
30.77	53.85	15.38	0.0	0.0	0.0		
Provides: prof. Ing. Marián Antalík, DrSc.							
Date of last modification: 03.05.2015							
Approved:							

University: P. J. Šafárik University in Košice

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:

Examinationn

Learning outcomes:

Explanation of fundamental principles for the construction of bioorganic molecular models of biochemical precesses using the tools of organic chemistry.

Brief outline of the course:

- 1. Introduction: Basic consideration, proximity effects in biochemistry, Molecular adaptation, Molecular recognition at the supramolecular level.
- 2. Bioorganic Chemistry of amino acids and polypeptides: Chemistry of the living cells, Analogy between organic reactions and biochemical tranformations, Chemistry of the peptide bond, Nonribosomal peptide formation, Asymmetric synthesis od amino acids, Asymmetric synthesis with chiral organometalic catalysts, Transition state analogs, Antibodies as enzymes, Chemical mutations, Molecular recognition and Drug design.
- 3. Bioorganic Chemistry of the Phosphate groups and polynucleotides: Energy storage, DNA intercalates, RNA molecules as catalysts.
- 4. Enzyme Chemistry: Introduction to catalysis and enzymes, Multifuntional catalysis and Simple models, alfa-Chymotrypsin, Other hydrolytic enzymes, Strereoelectronic control in hydrolytic reactions, Immobilized enzymes, Enzymes in synthetic organic chemistry, Enzyme-Analog-Built polymers, Design of molecular clefts.
- 5. Enzyme Models: Host-Guest complexation chemistry, New development in crown ether chemistry, Membrane chemistry and micelles, Polymers, Cyclodextrins, Enzyme design using steroid template, Remote functionalisation reactions, Polyene biomimetic cyclisations.
- 6. Metal Ions: Metal ions in proteins and biological molecules, Carbopeptidase A, Hydrolysis of amino acid esters and peptides, Iron and oxygen transport, Cooper ion, Cobalt and vitamin B12 action, Oxidoreduction, Pyridoxal phosphate, Biotin.

Recommended literature:

Voet J.: Biochemistry, Springer Verlag, 1998

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

Course language:

Page: 10

Notes:					
Course assessn Total number o	nent f assessed studen	ts: 157			
A	В	С	D	Е	FX
82.8	5.1	7.01	3.82	1.27	0.0
Provides: prof.	RNDr. Jozef Goi	nda, DrSc.			
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Biophysical Chemistry I

BFC1a/01

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: 5

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

Brief outline of the course:

Matter and its demonstration in living systems

Space and time connections in biological systems

Energy and mass connections in biological systems

Physicochemical properties of water and cell liquids

Reaction kinetics

Ligand binding

Nonequilibrium thermodynamics

Dynamics of conservative systems, chaos

Dissipative systems, attractors

Stability of biomacromolecules

Interfaces and membranes, membrane transports

Dynamics of complex biochemical process

Structuralization of biosystems induced by diffusion

Recommended literature:

Cantor, C.R., Schimmel, P.R. Biophysical Chemistry, W.H. Freeman and Co., S. Francisco, 1980 P.Glansdorff, I. Prigogine, Thermodynamics theory of structure, stability and fluctuations, Willey 1971

Voet, D. Voet, J.G. Biochemistry, John Willey @Sons, 1990

Kersal E. van Holde, W. Curtis Johnson, P. Shing Ho: Principles of Physical Biochemistry,

Prentise Hall, 1998

Articles from Journals

Marschall, A.G., Biophysical Chemistry, John Wiley & Sons, N. York, 1978

Hoppe, W., Lohmann, W., Markl, H., Ziegler, H., (eds.), Biophysics, Springer V., Berlin, 1983

Peitgen, H. O., Jurgens, H., Saupe, D., Fractals for the Classroom, Springer-Verlag, NY, 1992

Avnir, D (ed.)., The Fractal Approach to Heterogeneous Chemistry, John Wiley &S., NY, 1989

Winfree, A. T., The Geometry of Biological Time, Springer-Verlag, NY, 1980

Harrison, L. G.	, Kinetic Theory	of Living Pattre	n, Cambridge U	niv. Pres., NY, 19	93
Course langua	ge:				
Notes:					
Course assessn Total number o	nent of assessed studen	ts: 183			
A	В	С	D	Е	FX
11.48	16.94	36.07	22.95	12.57	0.0
Provides: prof.	Ing. Marián Anta	alík, DrSc.	<u> </u>		
Date of last mo	odification: 03.05	5.2015			
Approved:					

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:** Course level: IL Prerequisities: ÚCHV/BFC1a/01 **Conditions for course completion:** Examination **Learning outcomes: Brief outline of the course:** 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 spectroscopy NMR, EPR spectroscopy Light, x-ray scattering Atomic field force measurements, tunneling spectroscopy Microscopy (electron, light, ultrasound) Recommended literature: Cantor, C.R., Schimmel, P.R. Biophysical Chemistry, W.H. Freeman and Co., S. Francisco, 1980 Kersal E. van Holde, W. Curtis Johnson, P. Shing Ho: Principles of Physical Biochemistry, 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, 1983 Articles from Journals Course language:

Notes:

Course assessment						
Total number of assessed students: 174						
A	В	С	D	Е	FX	
12.64	17.24	35.06	20.69	13.79	0.57	

Provides: prof. Ing. Marián Antalík, DrSc., Mgr. Mária Suváková, PhD., RNDr. Roland Sůra

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Biotechnology Practical

PBT1/03

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 5 Per study period: 70

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

test

test

Learning outcomes:

Aim of practicals is to learn a variety of spectral and molecular-biology techniques, and obtain practical biotechniological skills from food and beverage production .

Brief outline of the course:

Characterization and practical application of lactic and alcohol fermentation, spectral methods. Food preservatives and their qualitative and quantitative evidence. Antibiotics - bacteriocins. Vitamins - antioxidant action of vitamin C. Production of cosmetics.

Recommended literature:

M.Ferenčík, B. Škárka, Biochemical laboratory methods, ALFA 1981.

C.Fini, A.Floridi, V.N. Finelli, B.Wittman-Liebold, Laboratory Methodology in Biochemistry, CRC Press, Florida, 1990.

D. Sabolová, Návody na praktické cvičenia z biotechnológie, Košice, 2014, http://www.upjs.sk/pracoviska/univerzitna-kniznica/e-publikacia/#pf.

Course language:

Notes:

Course assessment

Total number of assessed students: 129

A	В	С	D	Е	FX
68.99	24.03	5.43	0.78	0.78	0.0

Provides: RNDr. Danica Sabolová, PhD.

Date of last modification: 03.05.2015

Approved:

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KF/ Course name: Chapters from History of Philosophy of 19th and 20th KDF/05 Centuries (General Introduction) 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:** 2. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 10 C Α В D Е FX 50.0 20.0 10.0 0.0 10.0 10.0 Provides: PhDr. Dušan Hruška, PhD. Date of last modification: 03.05.2015 Approved:

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ RP/14	Course name: Class Project	et		
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 course	e: 2.		
Course level: II.				
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 asses	ssed students: 181			
	abs	n		
	98.9	1.1		
RNDr. Zuzana Vargov RNDr. Juraj Kuchár, l prof. Dr. Yaroslav Baz PhD., doc. RNDr. Tat	vá, Ph.D., RNDr. Martin Vav PhD., prof. RNDr. Vladimír zeľ, DrSc., prof. Mgr. Vasiľ	NDr. Miroslava Matiková Maľarová, PhD., doc. vra, PhD., prof. RNDr. Juraj Černák, DrSc., doc. Zeleňák, DrSc., doc. RNDr. Ivan Potočňák, PhD., Andruch, DSc., doc. RNDr. Katarína Reiffová, g. Viera Vojteková, PhD., RNDr. Rastislav		
Date of last modifica	ntion: 03.05.2015			
Approved:				

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Clinical Biochemistry KLB1/03 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present **Number of ECTS credits: 5** Recommended semester/trimester of the course: Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 181 C Ε Α В D FX 62.43 25.41 8.84 1.66 1.66 0.0 Provides: MUDr. Angela Molčányiová, PhD. Date of last modification: 03.05.2015 Approved:

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: KPPaPZ/KK/07	1				
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (ho dy period: 2 esent	ours):			
Number of ECTS cr					
Recommended seme	ster/trimest	ter of the course: 3.			
Course level: II.					
Prerequisities:					
Conditions for cours	se completio	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of assessed students: 281					
abs		n	Z		
98.22	98.22 1.78 0.0				
Provides: Mgr. Ondre	ej Kalina, Pł	nD., Mgr. Lucia Barbierik, PhD).		
Date of last modifica	tion: 24.06.	2021			
Approved:					

University: P. J.	Šafárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: ÚCHV/ Course name: Diploma Thesis and its Defence DPO/14					
Course type:	v -				
Number of ECT	ΓS credits: 20				
Recommended	semester/trimes	ter of the cours	e:		
Course level: II.	-				
Prerequisities:					
Conditions for o	course completio	n:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:			-	
Course languag	ge:				
Notes:					
Course assessm Total number of	ent assessed student	s: 167			
A	В	С	D	Е	FX
68.26	22.75	5.99	1.8	1.2	0.0
Provides:				•	•
Date of last mod	dification: 03.05	.2015			
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ | Course name: Enzymology

ENZ/04

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:

combination of written and oral examination

Learning outcomes:

To learn to use the basic equations of enzyme kinetics. Ability to determine basic kinetic and thermodynamic parameters of enzyme catalyzed reaction from experimental measurement.

Brief outline of the course:

- 1. Introduction. Chemical catalysis theory of transition state.
- 2. Enzyme catalysis types and examples.
- 3. Cofactors. Active site lock and key, induced fit. Enzymes classification.
- 4. 3D structure of proteins. Noncovalent interactions. Secondary, tertiary and quaternary structures. Convergent and divergent evolution. Multienzyme complexes. Dyanmics of proteins.
- 5. Ligand binding. Thermodynamics and konetics. Techniques.
- 6. Chemical kinetics. Basic equations of enzyme kinetics.
- 7. Regulations of enzyme activity examples.
- 8. Conformational change, allosteric regulation. Regulation of metabolic pathways.
- 9. Experimental determination of enzyme activity. pH and temperature dependence of enzyme catalysis.
- 10. Determination of individual rate constants. Stop flow. Enzyme-substrate complementarities and the use of binding energy in enzyme catalysis.
- 11. Reversible inhibition.
- 12. Irreversible inhibition.
- 13. Specificity and control mechanisms. "Moonlighting" enzymes. Applications of enzymes (organic solvents). Catalytic antibodies. Extremophiles. Directed selection of enzymes. Enzymatic reactions with multiple substrates.

Recommended literature:

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 assessn Total number o	nent of assessed studen	ts: 143			
A	В	С	D	Е	FX
39.16	22.38	17.48	14.69	5.59	0.7
Provides: doc. RNDr. Erik Sedlák, DrSc.					
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/

Course name: Experimental Methods to Master's Thesis

EMDP/03

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 6 Per study period: 84

Course method: present

Number of ECTS credits: 6

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 379

A	В	С	D	Е	FX
94.2	3.69	0.79	0.53	0.79	0.0

Provides: RNDr. Martin Vavra, PhD., doc. RNDr. Peter Pristaš, CSc., doc. RNDr. Peter Javorský, DrSc., prof. RNDr. Mária Kožurková, CSc., prof. Ing. Marián Antalík, DrSc., prof. RNDr. Juraj Černák, DrSc., prof. RNDr. Andrej Oriňak, PhD., doc. RNDr. Zuzana Vargová, Ph.D., doc. RNDr. Taťána Gondová, CSc., doc. RNDr. Miroslava Martinková, PhD., prof. RNDr. Renáta Oriňaková, DrSc., doc. RNDr. Ivan Potočňák, PhD., doc. RNDr. Erik Sedlák, DrSc., prof. RNDr. Vladimír Zeleňák, DrSc., doc. RNDr. Viktor Víglaský, PhD., doc. RNDr. Katarína Reiffová, PhD., RNDr. Miroslava Matiková Maľarová, PhD., doc. RNDr. Juraj Kuchár, PhD., RNDr. Nataša Tomášková, PhD., RNDr. Andrea Morovská Turoňová, PhD., RNDr. Daniela Kladeková, CSc., RNDr. Slávka Hamuľaková, PhD., RNDr. Rastislav Varhač, PhD., RNDr. Danica Sabolová, PhD., RNDr. Lívia Kocúrová, PhD., prof. Mgr. Vasiľ Andruch, DSc., prof. Dr. Yaroslav Bazeľ, DrSc., doc. RNDr. Ladislav Janovec, PhD., doc. Ing. Viera Vojteková, PhD., doc. RNDr. Miroslav Almáši, PhD., RNDr. Gabriel Žoldák, PhD., RNDr. Mariana Budovská, PhD., RNDr. Mária Vilková, PhD., RNDr. Monika Tvrdoňová, PhD., RNDr. Ján Elečko, PhD., RNDr. Jana Špaková Raschmanová, PhD.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KF/ **Course name:** History of Philosophy 2 (General Introduction) DF2p/03 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present **Number of ECTS credits: 4** Recommended semester/trimester of the course: Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 742 C Α В D Е FX 60.78 13.88 12.67 8.63 3.37 0.67 Provides: Doc. PhDr. Peter Nezník, CSc., PhDr. Katarína Mayerová, PhD., doc. Mgr. Róbert Stojka, PhD.

Date of last modification: 25.03.2020

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KF/ Course name: Idea Humanitas 2 (General Introduction) IH2/03 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:** 3. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 10 В C Α D Е FX 90.0 10.0 0.0 0.0 0.0 0.0 Provides: Doc. PhDr. Peter Nezník, CSc. Date of last modification: 12.02.2021 Approved:

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚCHV/ LCDP/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	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 53				
	abs	n			
98.11 1.89					
Viktor Víglaský, PhD	· · · · · ·	rof. Ing. Marián Antalík, DrSc., doc. RNDr. DrSc., RNDr. Nataša Tomášková, PhD., RNDr. PhD.			
Date of last modification:					
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name: Modern

BMB1/03

Course 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:

Course level: II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

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

Brief outline of the course:

Application of modern biochemistry and molecular biology methods for gene analysis, quantification of gene expression, nanotechnology and biotechnology.

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

Course language:

Notes:

Course assessment

Total number of assessed students: 199

A	В	С	D	Е	FX
30.65	23.12	27.64	15.08	3.02	0.5

Provides: doc. RNDr. Viktor Víglaský, PhD.

Date of last modification: 03.05.2015

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Patobiochemistry PAT1/03 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2/3 Per study period: 28/42 Course method: present **Number of ECTS credits: 7** Recommended semester/trimester of the course: Course level: II. Prerequisities: ÚCHV/KLB1/03 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 178 C Α В D Е FX 65.73 19.1 10.11 4.49 0.56 0.0 Provides: MUDr. Angela Molčányiová, PhD. Date of last modification: 03.05.2015 Approved:

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Cou

Course name: Proteins, Structure and Function

PSF/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:

Written examination

Learning outcomes:

Ability to suggest/use suitable methods for determination of structural and functional properties of proteins.

Brief outline of the course:

Chemical properties of polypeptides. Detection of amino acids, peptides and proteins. Biosynthesis of proteins – procaryotes. Biosynthesis of proteins – eucaryotes. Topogenesis. Protein folding. Postranslational covalent modifications of polypeptide chains. Physical interactions that determine the properties of proteins. Conformational properties of polypeptide chains. Proteins in solution and in membranes. Interactions with other molecules. Allostery. Degradation. Extremophiles.

Recommended literature:

Creighton T. E.: Proteins: Structures and Molecular Properties (2. vyd.), 1992

Buxbaum E.: Fundamentals of Protein Structure and Function, 2007

Nölting B.: Protein Folding Kinetics: Biophysical Methods (2. vyd.), 2006

Nelson D. L., Cox M. M.: Lehninger Principles of Biochemistry (4. vyd.), 2004

Whitford D.: Proteins: Structure and Function, 2011

Kessel A., Ben-Tal N.: Introduction to Proteins: Structure, Function, and Motion, 2011

Course language:

Notes:

Course assessment

Total number of assessed students: 187

A	В	С	D	Е	FX
33.16	20.86	20.32	15.51	9.63	0.53

Provides: doc. RNDr. Erik Sedlák, DrSc., RNDr. Rastislav Varhač, PhD.

Date of last modification: 04.02.2016

Page: 30

Approved:	
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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: | Course name: Psychology and Health Psychology (Master's Study)

KPPaPZ/PPZMg/12

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

Per week: 1/2 Per study period: 14/28

Course method: present

Number of ECTS credits: 4

Recommended semester/trimester of the course:

Course level: II.

Prerequisities:

Conditions for course completion:

Conditions for the continuous assessment during the semester:

Active work (maximum 5 points, 2 absences are allowed).

Preparation, presentation and discussion on a selected topic - max. 15 points.

Written examination (maximum 30 points).

Conditions for admission to the exam: min. 25 points.

Conditions for the final assessment:

Exam: written form (max. 50 points, min. 25 points)

Conditions for successful completion of the course: participation in lessons, fulfillment of assignments and at least 66 points from the overall evaluation.

Detailed information in the electronic bulletin board of the course in AIS2. The teaching of the subject will be realized by a combined method.

Learning outcomes:

The student will understand the basic concepts and theories of health psychology, can explain salutogenic factors as well as the consequences of risk behavior related to health. He is able to apply the knowledge especially in the field of prevention of burnout syndrome and support of mental health in the work of a teacher.

Brief outline of the course:

- 1 Introduction to health psychology
- 2 Psychoimmunology
- 3 Personality factors and health
- 4 Social support as a protective factor in relation to health
- 5 Subjective well-being
- 6 Stress and stressful situations and ways to manage them
- 7 Burnout syndrome
- 8 Health-promoting behavior, mental hygiene
- 9 Health risk behavior
- 10 School as an important factor of health

Recommended literature:

Křivohlavý, J.: Psychologie zdraví. Portál, Praha 2001.

Křivohlavý, J.: Psychologie nemoci. Grada, Praha, 2002.

Křivohlavý, J.: Psychologie moudrosti a dobrého života. Grada, Praha, 2009.

Kebza, V.: Psychosociální determinanty zdraví. Academia, Praha 2005.

Kahneman, D., Diener, E., Schwarz, N.(Eds), Well-Being. The Foundations of Hedonic

Psychology. New York, Russell Sage Foundation, 2003.

Kaplan, R. M.: Zdravie a správanie človeka. SPN, Bratislava 1996.

Sarafino, E. P.: Health Psychology. Biopsychosocial interactions. John Wiley and sons 1994.

Baštecký, J., Šavlík, J., Šimek, J. 1993. Psychosomatická medicína. Praha: Grada

Tress, W., Krusse, J., Ott, J.: Základní psychosomatická péče. Portál, Praha 2008.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 226

A	В	С	D	Е	FX
19.47	25.22	25.66	13.27	15.93	0.44

Provides: PhDr. Anna Janovská, PhD., Mgr. Lucia Barbierik, PhD.

Date of last modification: 07.07.2021

COURSE INFORMATION LETTER							
University: P. J. Šafári	ik University in Košice						
Faculty: Faculty of Science							
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Ae	robic Exercise					
Course type: Practice Recommended course Per week: Per study Course method: com	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: combined, present						
Number of ECTS cre							
Recommended semes	ter/trimester of the cours	e:					
Course level: I., II.							
Prerequisities:							
Conditions for course Conditions for course Attendance	-						
Learning outcomes: Learning outcomes: Students will be provided an overview of possibilities how to spend leisure time in seaside conditions actively and their skills in work and communication with clients will be improved. Students will acquire practical experience in organising the cultural and art-oriented events, with the aim to improve the stay and to create positive experiences for visitors.							
Brief outline of the course: Brief outline of seaside aerobics Sport as and its application in seaside conditions A proplication of projects of productive spending of leisure time for different age and social groups (children, young people, elderly) Brief outline of the course: Brief outline of the course: Brief outline of seaside conditions A proplication of projects of productive spending of leisure time for different age and social groups (children, young people, elderly) Brief outline of the course: Brief outline of seaside aerobics Brief outline of seaside aerobics							
Course language:							
Notes:							
Course assessment Total number of assessed students: 41							
	abs	n					

12.2

87.8

Provides: Mgr. Agata Horbacz, PhD.	
Date of last modification: 15.03.2019	
Approved:	

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: ÚCHV/ SP1/14	Course name: Semestral Project I					
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	ester/trimester of the course	e : 1.				
Course level: II.						
Prerequisities:						
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	nture:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 174					
	abs	n				
	99.43	0.57				
Provides: RNDr. Rastislav Serbin, PhD., prof. RNDr. Mária Kožurková, CSc., prof. Dr. Yaroslav Bazeľ, DrSc., prof. RNDr. Jozef Gonda, DrSc., doc. RNDr. Ján Imrich, CSc., doc. RNDr. Miroslava Martinková, PhD., doc. RNDr. Erik Sedlák, DrSc., RNDr. Nataša Tomášková, PhD., doc. RNDr. Viktor Víglaský, PhD., RNDr. Rastislav Varhač, PhD., RNDr. Danica Sabolová, PhD., RNDr. Jana Šandrejová, PhD., doc. RNDr. Ivan Potočňák, PhD., RNDr. Marián Fabián, CSc., doc. RNDr. Miroslav Almáši, PhD., RNDr. Miroslava Matiková Maľarová, PhD., doc. RNDr. Zuzana Vargová, Ph.D., RNDr. Martin Vavra, PhD., prof. RNDr. Juraj Černák, DrSc., doc. RNDr. Juraj Kuchár, PhD., prof. RNDr. Vladimír Zeleňák, DrSc.						
Date of last modifica	ntion: 03.05.2015					
Approved:						

University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚCHV/ Course name: Semestral Project II SP2/14							
Course type, scope a Course type: Recommended cour Per week: Per stud	rse-load (hours): ly period:						
Course method: pre							
	ester/trimester of the cours						
Course level: II.	ster/trimester of the cours	e: 					
Prerequisities: Conditions for cours							
	e completion:						
Learning outcomes:							
Brief outline of the c							
Recommended litera	iture:						
Course language:							
Notes:							
Course assessment Total number of asse	ssed students: 125						
	abs	n					
	100.0	0.0					
Provides: RNDr. Rastislav Serbin, PhD., prof. RNDr. Mária Kožurková, CSc., prof. Mgr. Vasil' Andruch, DSc., prof. Ing. Marián Antalík, DrSc., prof. Dr. Yaroslav Bazel', DrSc., doc. RNDr. Erik Sedlák, DrSc., doc. RNDr. Miroslava Martinková, PhD., doc. RNDr. Andrea Straková Fedorková, PhD., RNDr. Monika Tvrdoňová, PhD., doc. RNDr. Mária Ganajová, CSc., RNDr. Martin Vavra, PhD., 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., RNDr. Rastislav Varhač, PhD., doc. RNDr. Peter Pristaš, CSc., RNDr. Jana Šandrejová, PhD., doc. RNDr. Miroslav Almáši, PhD., RNDr. Miroslava Matiková Maľarová, PhD., doc. RNDr. Zuzana Vargová, Ph.D., prof. RNDr. Juraj Černák, DrSc., doc. RNDr. Juraj Kuchár, PhD.							
Date of last modifica	tion: 03.05.2015						
Approved:							

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Co

Course name: Seminar to Diploma Thesis

SDP/03

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: 4.

Course level: II.

Prerequisities:

Conditions for course completion:

Consultations, discussions and presentations.

Assessment of student's work during the semester by supervisor.

Learning outcomes:

Teach the student to prepare presentation of his own results, critical acceptation of information, participate in scientific discussion and formal requirements of written diploma work.

Brief outline of the course:

Presentation of literature information and own experimental results, scientific discussions and writing of scientific text.

Recommended literature:

According to the field of diploma work.

Course language:

Notes:

Course assessment

Total number of assessed students: 329

A	В	С	D	Е	FX
95.74	2.13	1.22	0.3	0.3	0.3

Provides: RNDr. Martin Vavra, PhD., doc. RNDr. Andrea Straková Fedorková, PhD., prof. RNDr. Mária Kožurková, CSc., prof. RNDr. Juraj Černák, DrSc., prof. Dr. Yaroslav Bazeľ, DrSc., prof. RNDr. Andrej Oriňak, PhD., prof. RNDr. Vladimír Zeleňák, DrSc., doc. RNDr. Zuzana Vargová, Ph.D., doc. RNDr. Ivan 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., RNDr. Andrea Morovská Turoňová, PhD., RNDr. Lívia Kocúrová, PhD., doc. RNDr. Miroslav Almáši, PhD.

Date of last modification: 20.09.2017

University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** Course name: Social-Psychological Training of Coping with Critical Life KPPaPZ/SPVKE/07 Situations 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:** 2. Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 126 abs n \mathbf{Z} 97.62 2.38 0.0 Provides: Mgr. Ondrej Kalina, PhD. Date of last modification: 11.02.2021 Approved:

University: P. J. Šafá	rik University in Košice
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: cor	ce rse-load (hours): dy period: 28
Number of ECTS cro	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: I., I.II.,	II.
Prerequisities:	
Conditions for cours Min. 80% of active p	e completion: articipation in classes.
They have a great im	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
University provides badminton, body form indoor football, S-M In the first two semes and particularities of in physical condition, condition, condition to these supply the physical education transport of the seminary of th	
Recommended litera	ture:
Course language:	

Notes:

	Course assessment								
Total number of assessed students: 12859									
	abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
	87.01	0.08	0.0	0.0	0.0	0.04	8.1	4.77	

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

Date of last modification: 13.05.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ | **Course name:** Sports Activities II.

TVb/11

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 2.

Course level: I., I.II., II.

Prerequisities:

Conditions for course completion:

active participation in classes - min. 80%.

Learning outcomes:

Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 11675

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
84.52	0.56	0.02	0.0	0.0	0.05	10.63	4.22

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

Date of last modification: 13.05.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ | **Course name:** Sports Activities III.

TVc/11

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 3.

Course level: I., I.II., II.

Prerequisities:

Conditions for course completion:

min. 80% of active participation in classes

Learning outcomes:

Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 7873

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
88.8	0.05	0.01	0.0	0.0	0.03	4.08	7.04

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

Date of last modification: 13.05.2021

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ | **Course name:** Sports Activities IV.

TVd/11

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 4.

Course level: I., I.II., II.

Prerequisities:

Conditions for course completion:

min. 80% of active participation in classes

Learning outcomes:

Sports activities in all their forms prepare university students for their professional and personal life. They have a great impact on physical fitness and performance. Specialization in sports activities enables students to strengthen their relationship towards the selected sport in which they also improve.

Brief outline of the course:

Within the optional subject, the Institute of Physical Education and Sports of Pavol Jozef Šafárik University provides for students the following sports activities: aerobics, aikido, basketball, badminton, body form, bouldering, floorball, yoga, power yoga, pilates, swimming, body-building, indoor football, S-M systems, step aerobics, table tennis, tennis, volleyball and chess.

In the first two semesters of the first level of education students will master basic characteristics and particularities of individual sports, motor skills, game activities, they will improve level of their physical condition, coordination abilities, physical performance, and motor performance fitness. Last but not least, the important role of sports activities is to eliminate swimming illiteracy and by means of a special program of medical physical education to influence and mitigate unfitness.

In addition to these sports, the Institute offers for those who are interested winter and summer physical education trainings with an attractive program and organises various competitions, either at the premises of the faculty or University or competitions with national or international participation.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 5125

abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs
83.14	0.31	0.04	0.0	0.0	0.0	7.75	8.76

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

Date of last modification: 13.05.2021

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚCHV/ Course name: Students Scientific Conference - Seminar and Presentation SVKBCH/03 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: 4** Recommended semester/trimester of the course: Course level: II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 76 \mathbf{C} A В D Ε FX 100.0 0.0 0.0 0.0 0.0 0.0 Provides: prof. RNDr. Mária Kožurková, CSc. Date of last modification: 03.05.2015 Approved:

University: P. J. Šafár	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: Per stud Course method: pre	ce rse-load (hours): y period: 36s
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
Conditions for course Conditions for course Attendance Final assessment: Rat	<u>-</u>
Learning outcomes: Learning outcomes: Students have knowled	edge of rafts (canoe) and their control on waterway.
5. Canoe lifting and c	ourse: ficulty of waterways fing ning using an empty canoe carrying n the water without a shore contact be ut of the water
Recommended litera	ture:
Course language:	
Notes:	

Course assessment					
Total number of assessed students: 153					
abs	n				
45.75	54.25				
Provides: Mgr. Dávid Kaško, PhD.					
Date of last modification: 18.03.2019					
Approved:					

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: cor	rse-load (hours): ly period: 36s mbined, present
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course:
Course level: I., II.	
Prerequisities:	
Conditions for course Conditions for course Attendance Final assessment: con	•
conditions as they wi and demanding situa	miliarized with principles of safe stay and movement in extreme natural ll obtain theoretical knowledge and practical skills to solve the extraordinary tions connected with survival and minimization of damage to health. The n work and students will learn how to manage and face the situations that of obstacles.
2. Preparation and lea3. Objective and subj4. Principles of hygieExercises:1. Movement in terra	viour and safety for movement and stay in unknown mountains adership of tour ective danger in mountains one and prevention of damage to health in extreme conditions in, orientation and navigation in terrain (compasses, GPS) rovised overnight stay
Recommended litera	iture:
Course language:	

Notes:

Course assessment					
Total number of assessed students: 393					
abs n					
44.53	55.47				
Provides: MUDr. Peter Dombrovský, Mgr. Ladis	lav Kručanica, PhD.				
Date of last modification: 15.03.2019					
Approved:					

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚCHV/ Course name

XBCH/04

Course name: Xenobiochemistry

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:

test

Learning outcomes:

Students obtained modern knowledge of xenobiotics metabolism in living organisms

Brief outline of the course:

Characterization of metabolism of xenobiotics in the liver. The basic types of biotransformation reactions - oxidation, reduction, hydrolysis, conjugation. Biotransformation enzymes. Free radicals and their effects, lipid peroxidation.

Recommended literature:

Z. Ďuračková: Voľné radikály a antioxidanty v medicíne, Slovak akademik press 1998.

Z. Vodrážka: Biochémia, Praha, 1996.

A. Jindra: Biochémia, molekulárnobiologické a farmakologické aspekty, Praha, 1985.

Course language:

Notes:

Course assessment

Total number of assessed students: 86

A	В	С	D	E	FX
61.63	18.6	10.47	4.65	4.65	0.0

Provides: prof. Ing. Marián Antalík, DrSc., RNDr. Danica Sabolová, PhD.

Date of last modification: 03.05.2015

Approved:

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