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- · · · · · · · · · · · · · · · · · · ·	J. Šafárik Univers	ity in Košice			
Faculty: Facul	ty of Science				
Course ID: ÚF AFV/15	3EV/ Course na	ame: Activating f	forms of biology	teaching	
Course type: Recommende	ed course-load (h Per study period:	ours):			
Number of EC	CTS credits: 2				
Recommended	d semester/trimes	ster of the cours	e: 3.		
Course level:]	[Ι.				
Prerequisities	ÚBEV/DIB1/03				
	r course completing presentation of service service of the service				
projects solved	omes: edagogical skills v d at the Departm ovative activities.	Ũ		•	
based science educational tee	of the course: udent - partners in education). New a chnologies suppo ct management and	approaches to for rting IBSE. Diff	mative and sumerent ways of v	mative assessmer vorking with text	nt in IBSE. New t when learning
Pacammanda					
Kimáková, K.: Kireš, M. [et a education] čas Establish 2447 Standards and ISCED 3)	d literature: : Úvod do štúdia c 1.] .Bádateľské ak ť A 1. vyd Br 49 ; Sails 289008 biology textbooks	tivity v prírodove ratislava : Štátny 5 ISBN 978808 s for Slovak lowe	ednom vzdeláva pedagogický ús 81181559 er and upper seco	ní [Inquiry activit tav, 2016 128 s ondary schools (I	3 ties in science Projekt: SCED 2,
Kimáková, K.: Kireš, M. [et a education] čas Establish 2447 Standards and ISCED 3)	: Úvod do štúdia c 1.] .Bádateľské ak ť A 1. vyd Br 49 ; Sails 289008 biology textbooks s of the internal c	tivity v prírodove ratislava : Štátny 5 ISBN 978808 s for Slovak lowe	ednom vzdeláva pedagogický ús 81181559 er and upper seco	ní [Inquiry activit tav, 2016 128 s ondary schools (I	3 ties in science Projekt: SCED 2,
Kimáková, K.: Kireš, M. [et a education] čas Establish 2447 Standards and ISCED 3) Study material	: Úvod do štúdia c 1.] .Bádateľské ak ť A 1. vyd Br 49 ; Sails 289008 biology textbooks s of the internal c	tivity v prírodove ratislava : Štátny 5 ISBN 978808 s for Slovak lowe	ednom vzdeláva pedagogický ús 81181559 er and upper seco	ní [Inquiry activit tav, 2016 128 s ondary schools (I	3 ties in science Projekt: SCED 2,
Kimáková, K.: Kireš, M. [et a education] čas Establish 2447 Standards and ISCED 3) Study material Course langua Notes: Course assessi	: Úvod do štúdia c 1.] .Bádateľské ak ť A 1. vyd Br 49 ; Sails 289008 biology textbooks s of the internal c nge:	tivity v prírodove ratislava : Štátny 5 ISBN 978803 s for Slovak lowe ourse published i	ednom vzdeláva pedagogický ús 81181559 er and upper seco	ní [Inquiry activit tav, 2016 128 s ondary schools (I	3 ties in science Projekt: SCED 2,
Kimáková, K.: Kireš, M. [et a education] čas Establish 2447 Standards and ISCED 3) Study material Course langua Notes: Course assessi	: Úvod do štúdia č 1.] .Bádateľské ak ť A 1. vyd Br 49 ; Sails 289008 biology textbooks s of the internal c nge: ment	tivity v prírodove ratislava : Štátny 5 ISBN 978803 s for Slovak lowe ourse published i	ednom vzdeláva pedagogický ús 81181559 er and upper seco	ní [Inquiry activit tav, 2016 128 s ondary schools (I	3 ties in science Projekt: SCED 2,

Date of last modification: 16.12.2021

University: P. J. Šafárik University in Košice	Šafárik University in Košic	t v: P. J. Šafárik	Univ
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Faculty: Faculty of Science

Course ID: ÚINF/	Course name: Administration of OS
AOS1/15	

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: 1., 3.

Course level: I., II., N

Prerequisities:

Conditions for course completion:

The condition for passing the course is successful realization of a project focused on the network services configuration.

Learning outcomes:

The result of the education is an understanding of the theoretical and practical background of Windows and Linux operating systems and selected network services.

Brief outline of the course:

1. Management of Linux operating system (basic system tools for troubleshooting, system startup, network configuration), 2. File systems (general view), 3. File systems (RAID, LVM), 4. Web hosting services I. (basic concept, APACHE), 5. Web hosting services II. (SQL, HTTPS, security, NGINX), 6. File services I. (SAMBA, NFS), 7. File services II. (FTP), 8. Management of local computer network I. (routing, DHCP), 9. Management of local computer network II. (firewall), 10. VPN, 11. SSH and Proxy, 12. Kernel of the Linux operating system, 13. Administration of the Windows operating system.

Recommended literature:

1. LPIC-1 Exam 102. LPI [online]. Canada: The Linux Professional Institute, 2021 [cit. 2021-9-22]. Dostupné z: https://learning.lpi.org/en/learning-materials/102-500/, 2. Linux - Dokumentační projekt [online]. 4. Praha: Computer Press, 2007 [cit. 2021-9-22]. Dostupné z: https://i.iinfo.cz/files/root/k/LDP_4.pdf, 3. The LPIC2 Exam Prep [online]. Sue B.V. - Open Sourced, 2021 [cit. 2021-9-26]. Dostupné z: https://lpic2book.github.io/src/

Course language:

Slovak or English

Notes:

Content prerequisites: understanding of fundamental concepts of operating systems, computer networks, basic skill in Linux shell (e.g. bash) and Powershell.

Course assessm Total number o	nent f assessed studen	ts: 55			
А	В	С	D	Е	FX
70.91	14.55	7.27	0.0	5.45	1.82
Provides: doc.]	RNDr. JUDr. Pav	ol Sokol, PhD. e	t PhD., RNDr. To	omáš Bajtoš, PhĽ).
Date of last modification: 26.09.2021					
	f. PhDr. Ol'ga Or RNDr. Stanislav F		. RNDr. Marcel U	Jhrin, PhD., univ	erzitný

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE BDB/22	V/ Course na	me: Biology an	d Didactics of Bi	ology	
Course type, sco Course type: Recommended Per week: Per Course method	- course-load (he study period:				
Number of ECT	S credits: 2				
Recommended s	emester/trimes	ter of the cours	se:		
Course level: II.					
Prerequisities: Ú	BEV/VEK1/03	and (ÚBEV/VI	MK/22 or ÚBEV/	/MKVU/15) and	ÚBEV/DIB1/03
The student has to context. Each top the content at the	o demonstrate pr pic is assigned a e secondary (sec	ofessional know didactic problem	cs of biology are vledge of the draw n, which is to exp ary (primary) sch	n topic and prese plain and apply to	ent it in a broader the teaching of
Learning outcom Graduates will g		teach biology a	t lower and uppe	r secondary educ	cation.
Didactic element content at the lev	general ecology s of teaching bio rel of primary ar	ology and their and secondary scl	f multicellular org application to spect nool. amples of their ap	cific didactic pro	blems and given
Recommended I Current school d	iterature: ocuments in the	Slovak Republi			
Course language SK	<u>.</u> .				
Notes:					
Course assessme Total number of		ts: 74			
A	В	С	D	Е	FX
39.19	27.03	17.57	12.16	1.35	2.7
Provides:				<u> </u>	<u> </u>

Faculty: Faculty of S	
Faculty. Faculty of S	cience
Course ID: KPPaPZ/SNP/09	Course name: Bullying, Violence and Their Prevention
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): Idy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
Conditions for course Active participation in Active participation - Seminar work - 40% Seminar work 2 - 400	n seminars. Detailed information will be given. - 20%
schools and its conse	luate of the course can summarize the latest knowledge about bullying in
student will develop seminars. Competences. The gr	s able to analyse problem situations related to bullying and solve them. The professional skills through the implementation of prevention activities ir aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms.
student will develop seminars. Competences. The gr bullying in the early s Brief outline of the c Aggressive behavior, environment). Manif role of teacher, school level of school, class,	aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms.
student will develop seminars. Competences. The gr bullying in the early s Brief outline of the c Aggressive behavior. environment). Manif role of teacher, school level of school, class, activities used in the Recommended litera Kolář, M.: Bolest šik 2001 Jánošová a kol. Psych Říčan, P.: Agresivita Janošová, P., Kollero	 a able to analyse problem situations related to bullying and solve them. The professional skills through the implementation of prevention activities in aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms. course: Characteristics of actors of bullying (personality, characteristics of family estations and possible causes of bullying. Bullying as a group process. The ol and parent in solving bullying. Possibilities of prevention of bullying at the individuals. Primary, secondary and tertiary prevention. Socio-psychologica prevention of bullying.
student will develop seminars. Competences. The gr bullying in the early s Brief outline of the c Aggressive behavior. environment). Manif role of teacher, school level of school, class, activities used in the Recommended litera Kolář, M.: Bolest šik 2001 Jánošová a kol. Psych Říčan, P.: Agresivita Janošová, P., Kollero	s able to analyse problem situations related to bullying and solve them. The professional skills through the implementation of prevention activities in aduate of the course is sensitive to the issue of bullying, knows how to identify stages and prevent it from developing into serious forms. Fourse: Characteristics of actors of bullying (personality, characteristics of family estations and possible causes of bullying. Bullying as a group process. The of and parent in solving bullying. Possibilities of prevention of bullying at the individuals. Primary, secondary and tertiary prevention. Socio-psychologica prevention of bullying. Ature: anování. Cesta k zastavení epidemie šikanování ve školách. Portál, Praha, hologie školní šikany. Grada, Praha, 2016 a šikana mezi dětmi. Portál, Praha, 1995 vá, L., Cakirpaloglu, P., & Vorlíček, R. (2023). Empatie žáků vůči

Course assessm Total number of	nent of assessed studen	ts: 243			
А	В	С	D	Е	FX
87.24	11.52	0.82	0.41	0.0	0.0
Provides: doc.	Mgr. Mária Bačíl	ková, PhD.			
Date of last mo	odification: 03.09	9.2024			
	f. PhDr. Ol'ga Or RNDr. Stanislav H		. RNDr. Marcel U	Jhrin, PhD., univ	erzitný

University: P. J. Š	afárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: KPO/ SDaM/15	Course na	me: Child and A	Adolescent Socio	logy	
Course type, scop Course type: Le Recommended o Per week: 2 Per Course method:	cture course-load (ho study period:	ours):			
Number of ECTS	S credits: 2				
Recommended se	emester/trimes	ter of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	on:			
Learning outcom	les:				
Brief outline of tl	he course:				
Recommended li	terature:				
Course language	:				
Notes:					
Course assessme Total number of a		s: 1014			
А	В	С	D	Е	FX
49.9	28.9	14.89	3.85	1.78	0.69
Provides: doc. Ma	gr. Alexander C	nufrák, PhD.			
Date of last modi	fication: 29.08	.2024			
Approved: prof. I profesor, prof. RN			. RNDr. Marcel U	Jhrin, PhD., univ	verzitný

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPE MT/09	/ Course na	ame: Class Mana	igement		
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ractice course-load (h r study period:	ours):			
Number of ECT	'S credits: 2				
Recommended s	semester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcor	nes:				
Brief outline of	the course:				
Recommended l	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 613			
A	В	С	D	E	FX
52.04	35.4	9.79	1.47	0.49	0.82
Provides: doc. P	aedDr. Renáta (Drosová, PhD., M	lgr. Zuzana Vaga	ská, PhD.	
Date of last mod	lification: 12.03	3.2024			
Approved: prof. profesor, prof. RI	-		RNDr. Marcel	Uhrin, PhD., univ	verzitný

University: P. J. Šafá	árik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚINF/ KKV1/21	Course name: Classical and quantum computations
Course type, scope a Course type: Lectu Recommended cou Per week: 3 / 2 Per Course method: pro-	rre / Practice rrse-load (hours): r study period: 42 / 28
Number of ECTS cr	redits: 6
Recommended seme	ester/trimester of the course: 1., 3.
Course level: II., N	
Prerequisities:	
Conditions for cours	se completion:

Successful completion of the subject is conditioned by proper acquisition of basic concepts, algorithms and models and demonstrating the ability to apply them creatively. The acquisition of knowledge takes place:

- continuously during the semester in the form of partial assignments,
- a written test during the semester,
- a written test at the exam,
- oral exam.

In order to receive an evaluation, it is necessary to obtain at least 50% of points from each of the three parts (assignments during the semester, written part of the exam, oral part of the exam). The detailed evaluation method is published in the AIS.

Learning outcomes:

By completing the subject, the student will get:

- knowledge of the classification and design of probabilistic algorithms,

- basic knowledge of the principles of quantum computers and their differences compared to classical computing models,

- knowledge and skills about the design and functioning of quantum computing and become familiar with the most well-known algorithms,

= basic quantum computer programming skills.

Brief outline of the course:

1. Introduction to quantum quantum computers. Basics of classical complexity theory.

- 2. Boolean circuits and their basic properties.
- 3. Probability algorithms.
- 4. BPP class and probability testing.
- 5. Basic properties of circuits and Fermat's test.
- 6. Miller Rabin's test and the position of the BPP class in the hierarchy of complexity models.
- 7. Introduction to quantum computing and mathematical foundations of quantum theory.
- 8. Spectral representation of self-adjoint operators.
- 9. Quantum states and Hilbert vector spaces.
- 10. Basic quantum operators and basic quantum algorithms.

- 11. Quantum teleportation, superdense coding and Grover's algorithm.
- 12. Fourier transformation.
- 13. Shor's algorithm.

Recommended literature:

1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003.

2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999.

3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003.

4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002.

5. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information.

Cambridge University Press, 2000.

6. HIRVENSALO, M., Quantum Computing, Springer 2004

Course language:

Slovak or english

Notes:

Content prerequisites:

Linear algebra, Group theory, Probability theory, Theory of algorithms, Introduction to quantum computers.

Course assessment

Total number of assessed students: 101

А	В	С	D	Е	FX
29.7	38.61	15.84	4.95	3.96	6.93

Provides: prof. RNDr. Gabriel Semanišin, PhD., Mgr. Viktor Olejár

Date of last modification: 25.07.2022

Faculty: Faculty of S					
raculty. Faculty of S	Science				
Course ID: ÚINF/ Course name: Computability theory VY/15 VY/15					
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	ure / Practice urse-load (hours): · study period: 28 / 14				
Number of ECTS ci	redits: 4				
Recommended seme	ester/trimester of the course: 1.				
Course level: I., II., I	N				
Prerequisities:					
(primitive) recursive	se completion: ations focused on the construction of Turing machines, creating sequences of e functions, solving examples. Oral exam focused on the relationship between and computable functions, the problem of stopping a Turing machine.				
e 1	: utational model of Turing machine, Goedelian arithmetization, and relationship putability and recursivity of functions.				
 Shifting of states, Modifications of c Elementary Turing Compositions of e Primitively recurs Functions and pre Goedelian arithme Recursive function Relationship of r Halting problem 	basic principles of work of Turing machine, formalization of basic notions compositions of machines, computations on composed machines configuration g machines elementary Turing machines ive functions ive predicates dicates from number theory etizationa of Turing computability ons recursivity and Turing computability				
ISBN:: 978-0387941 2. BUKOVSKÝ, Le	las. Computability, A Mathematical Sketch book. SpringerVerlag, 1994.				

Slovak							
Notes:							
Course assessm Total number o	nent f assessed studen	ts: 331					
А	В	С	D	Е	FX		
53.17	11.18	11.18 11.18 4.83 5.14 14.5					
Provides: doc.]	RNDr. Ľubomír A	Antoni, PhD.					
Date of last mo	dification: 04.01	.2022					
	f. PhDr. Ol'ga Oro RNDr. Stanislav K		RNDr. Marcel U	Jhrin, PhD., univ	rerzitný		

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S						
Course ID: ÚINF/ VKN/24	1 8					
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 28					
Number of ECTS cr	edits: 5					
Recommended seme	ester/trimester of the course: 1., 3.					
Course level: II., N						
Prerequisities:						
Conditions for cours Midterm exam Final exam consistin	se completion: g of written and/or oral part					
Learning outcomes: Advanced topics in neuroscience.	a computational and cognitive neuroscience, and in the tools used in					
Theme 1: Topics in c 2. Neural basis of vis 3. Visual object record 4. Auditory cognition 5. Cortical sound pro 6. Other topics in the Topic 2: Modeling in 7. Intro 8. Connectionism, ST 9. Additive and shun 10. Learning rule Ou 11. Adaptive resonan 12. Statistical and de Topic 3: Current rese 13. Invited lecture	sychology, neural modeling. sognitive and neural science sion gnition and visual scene analysis n. Echo suppression. Auditory scene analysis scessing. e study of brain and main: thinking, consciousness, emotions, motivation a cognitive and neural science I'M and LTM modeling ting neural networks. tstar. ice theory. cision-theory modeling earch at UPJS					
McGraw-Hill, 2021 2. Dayan P and LF A Modeling of Neural	Ature: SCHWARTZ, J. H. and JESSELL, T.M.: Principles of Neural Science. ISBN-13: 978-1259642234 Abbott: Theoretical Neuroscience - Computational and Mathematical Systems. MIT Press, 2005 ISBN-13: 978-0262541855 Introduction to Cognitive Science, 2nd Edition. Bradford Books. ISBN-13 :					

4. HERTZ, J., KROGH, A. and PALMER R. G.: Introduction to the theory of neural computation. Addison-Wesley 1991 ISBN-13: 978-0201515602

Course language:

Slovak or English

Notes:

Content prerequisites:

basics of neurobiology, cognitive psychology, linear algebra and differential equations, programing, or instructor's consent

Course assessment

Total number of assessed students: 11

А	В	С	D	Е	FX
27.27	18.18	9.09	9.09	36.36	0.0

Provides: doc. Ing. Norbert Kopčo, PhD., univerzitný profesor, RNDr. Keerthi Kumar Doreswamy, PhD., Ing. Udbhav Singhal, Myroslav Fedorenko

Date of last modification: 19.03.2024

	COURSE INFORMATION LETTER					
University: P. J. Šafa	árik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: ÚINF/ VYZ1/15	Course name: Computational complexity					
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pr	ure urse-load (hours): udy period: 28					
Number of ECTS c	redits: 4					
Recommended sem	ester/trimester of the course: 3.					
Course level: II., N						
Prerequisities:						
Conditions for cour Oral examination.	se completion:					
Learning outcomes: To give students to completeness.	: heoretical background in computational complexity and theory of NP-					
Brief outline of the						
example - the proble 2: Basic computation these computers, sing of these computation complexity 3: The classes P and - the set of all 3-col - the set of satisfian normal form 4: Variants of P and I polynomial conversion 5: NP-completeness completeness and its 6: NP-completeness	notion of computational complexity, computational time, computational model, em of sorting, computational complexity as an asymptotic function onal models: RAM and RASP computers, the cost of an elementary step on gle-tape Turing machine, multi-tape Turing machine, nondeterministic variants onal models, transformations among these models with respect to the time A NP: basic definitions, presenting (un)undirected graphs on the input, 3COL lorable graphs is in NP, 2COL - the set of all 2-colorable graphs is in P, SAT ble Boolean formulas is in NP, CNF-SAT - Boolean formulas in conjunctive NP: decision problem, the problem of finding a solution, optimization problem, ions among different variants are reducibility in polynomial time and its transitivity, definition of the NP- s basic properties					

in P

8: 3COL and its variants: 3COL (the problem of coloring vertices of a graph with 3 colors) in NP-complete, consequently: for each k>3, kCOL (the problem of coloring with k colors) is NPcomplete as well

9: Colorability of a planar graph with three colors: presenting a planar graph on the input, the proof of NP-completeness, coloring with a larger number of colors

10: Another NP-complete problems: Exact set cover, Clique, Vertex cover

11: Hamiltonian path: Hamiltonian path in a directed and in undirected graph

12: Subset-sum-like problems: Subset Sum - the problem of whether any subset of the integers sum to precisely a target sum, Partition - the problem of whether a given multiset of positive integers can be partitioned into two subsets with equal sums, a "more relaxed" version of Partition - achieving an approximate equality of the sums, distribution of tasks among K parallel processors

13: Beyond P a NP: a review of the basic complexity classes - L, NL, P, NP, PSpace, NPSpace, ExpTime, NExpTime, ..., simulation of (non)deterministic space in (non)deterministic time, conversions in opposite directions

14: PSpace: QBF - true quantified Boolean formulas, prenex normal form, Pspace completeness of QBF, PSpace = NPSpace

Recommended literature:

1. J.E. Hopcroft, R.Motwani, J.D. Ullman: Introduction to automata theory, languages, and computation, Addison-Wesley, 2007.

2. M. Sipser: Introduction to the Theory of Computation, Thomson, 2nd edition, 2006.

3. L.A.Hemaspaandra, M.Ogihara: Complexity theory companion, EATCS series, texts in computer science, Springer-Verlag, 2002.

4. S. Arora, B. Barak: Computational Complexity: A Modern Approach, Cambridge Univ. Pess, 2009. 5. G.Brassard, P.Bradley: Fundamentals of algorithmics, Prentice Hall, 1996.

6. D.P.Bovet, P.Crescenzi: Introduction to the theory of complexity, Prentice Hall, 1994.

7. C. Calude and J. Hromkovič: Complexity: A Language-Theoretic Point of View, in G.

Rozenberg and A. Salomaa, Handbook of Formal Languages II, Springer, 1997.

Course language:

Slovak or english

Notes:

Content prerequisities:

Basic notions from the theory of automata and formal languages.

Basic skills in programming and design of algorithms (in any programming language). Basics knowledge in mathematical logic, set theory, and graph theory.

Course assessment

Total number of assessed students: 400

А	В	С	D	Е	FX
57.25	15.25	13.25	7.0	7.0	0.25

Provides: prof. RNDr. Viliam Geffert, DrSc.

Date of last modification: 23.11.2021

University: P. J. S	Šafárik Universit	y in Košice				
Faculty: Faculty	of Science					
Course ID: ÚINF MSSUI/22	Course nar	Course name: Computer science and didactics of informatics				
Course type, sco Course type: Recommended Per week: Per s Course method	course-load (ho study period:					
Number of ECTS	S credits: 2					
Recommended se	emester/trimest	er of the cours	e:			
Course level: II.						
Prerequisities: Ú ÚINF/UNS1/15 o			/22 and (ÚINF/U	UGR1/15 or ÚINF	F/KKV1/21 or	
Conditions for co	ourse completio	n:				
Learning outcom	nes:					
Brief outline of t	he course:					
Recommended li	terature:					
Course language	:					
Notes:						
Course assessme Total number of a	-	5: 6				
A	В	С	D	E	FX	
50.0	16.67	0.0	0.0	33.33	0.0	
Provides:	I					
Date of last modi	ification: 08.02.	2022				
Approved: prof. 2 profesor, prof. RN	U	· · · ·	RNDr. Marcel	Uhrin, PhD., univ	erzitný	

University: P. J	. Šafárik Univers	ity in Košice				
Faculty: Facult	y of Science					
Course ID: ÚBEV/ Course name: Conservation Biology DPR/12						
Course type:] Recommende	cope and the met Lecture / Practice d course-load (h 0 Per study perio d: present	ours):				
Number of EC	TS credits: 3					
Recommended	semester/trimes	ter of the cours	e: 1.			
Course level: I.	, II.					
Prerequisities:						
	course completi ticipation in lec		n of two seme	estral written exa	minations, oral	
-				ncipal threats and	conservation of	
hotspots on Ear Factors leading of populations	nd origin of con th. Economic value to biodiversity the and species, cons eas, conservation	ue of biodiversity reats. Extinctions ervation program	as the principal and problems ons and strategies	vels of biodivers l argument of natu of small population s. Classification a stainable develop	re conservation. ns. Conservation nd management	
Recommended Primack R.B., 2		of conservation b	iology. Sinauer	Associates, 1-603	3	
Course languag	ge:					
Notes:						
Course assessm Total number o	nent f assessed studen	ts: 811				
А	В	С	D	E	FX	
73.61	15.91	6.54	2.84	0.49	0.62	
Provides: prof.	RNDr. Ľubomír I	Kováč, CSc.		-		
Date of last mo	dification: 14.12	.2021				
	f. PhDr. Ol'ga Orc RNDr. Stanislav K		RNDr. Marcel	Uhrin, PhD., univ	verzitný	

University: P. J. Šafá	rik University in Košic	e		
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ Course name: Continuous practice teaching I MPPc/15				
Course type, scope a Course type: Practi Recommended cou Per week: Per stuc Course method: pro	ce rse-load (hours): ly period: 4t			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the c	course: 3.		
Course level: II.				
Prerequisities: ÚBE	V/MPPb/15			
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 329			
	abs n			
100.0 0.0				
Provides:				
Date of last modifica	ition: 16.12.2021			
	r. Oľga Orosová, CSc. Stanislav Krajči, PhD.	, doc. RNDr. Marcel Uhrin, PhD., univerzitný		

University. F. J. Sala	rik University in Košice
Faculty: Faculty of So	zience
Course ID: ÚINF/ MPPc/15	Course name: Continuous practice teaching I
Course type, scope an Course type: Practic Recommended cour Per week: Per stud Course method: pre	ce rse-load (hours): y period: 4t
Number of ECTS cre	edits: 2
Recommended semes	ster/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚINF	/MPPb/15
 Participation in ana Active participation Conditions for the fin Submission of 6 ob Submission of 18 le Submission of a lis Submission of an e Submission of a rep Submission of a fee Conditions for succes 	g of 18 lessons of the subject informatics. alyzes from 20 lessons with a teacher trainer. in in out-of-class and after-school activities. al evaluation: oservation records from lessons. esson projects of preparation for lessons. t of observations and own lesson of the trainee. evaluation of the trainee's teaching practice. port on the continuous pedagogical practice. edback sheet from the continuous pedagogical practice. sful completion of the course: oing and final assignments.
pedagogical skills in	al supervision of an experienced teacher trainer, the student acquires practical teaching the subject of informatics. He gets acquainted with school life, out-ool activities activities.
	ourse: er trainer lessons, consultations of lesson preparations, preparation of teaching sons, methodological and scientific analysis of lessons, active participation ir

Recommended literature:

KOSOVÁ, Beata, Alena TOMENGOVÁ et al., 2015. Profesijná praktická príprava budúcich učiteľov [online]. Banská Bystrica: Vydavateľstvo Belianum, Univerzita Mateja Bela, Banská Bystrica, 226 pp. [cited. 2021-7-28]. ISBN 978-80-557-0860-7. Available from: https://publikacie.umb.sk/publication/publicationFileDownload.php?ID=18667

OROSOVÁ, Renáta and Zuzana BOBEROVÁ, 2016. Pregraduálna príprava učiteľov: Organizácia pedagogickej praxe na UPJŠ [online]. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 142 pp. [cited 2021-7-28]. ISBN 978-80-8152-460-8. Available from: https:// unibook.upjs.sk/sk/pedagogika/342-pregradualna-priprava-ucitelov-organizacia-pedagogickejpraxe-na-upjs

BOBEROVÁ, Zuzana, 2017. Začínajúci učiteľ a školská legislatíva I. [online]. Košice:

Univerzita Pavla Jozefa Šafárika v Košiciach, 104 pp. [cited 2021-7-28]. ISBN

978-80-8152-490-5. Available from: https://unibook.upjs.sk/sk/pedagogika/398-zacinajuci-ucitel-a-skolska-legislativa-i

Current informatics textbooks for primary and secondary schools in Slovakia.

Course language:

Slovak

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 22

abs	n
100.0	0.0

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 04.08.2021

University: P. J. Šafá	rik University in Košic	e
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ MPPd/15	Course name: Contin	uous practice teaching II
Course type, scope a Course type: Practic Recommended cou Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 6t	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the c	ourse: 4.
Course level: II.		
Prerequisities: ÚBE	V/MPPc/15	
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 302	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 16.12.2021	
	r. Oľga Orosová, CSc., Stanislav Krajči, PhD.	doc. RNDr. Marcel Uhrin, PhD., univerzitný

Faculty: Faculty of Sc	eience
Course ID: ÚINF/ MPPd/15	Course name: Continuous practice teaching II
Course type, scope an Course type: Practic Recommended cour Per week: Per study Course method: pres	e se-load (hours): y period: 6t
Number of ECTS cre	dits: 2
Recommended semes	ter/trimester of the course: 4.
Course level: II.	
Prerequisities: ÚINF/	MPPc/15
 Participation in ana Active participation Conditions for the fina Submission of 8 ob Submission of 30 le Submission of a list Submission of an ev Submission of a rep Submission of a fee Conditions for success 	g of 30 lessons of the subject informatics. lyzes from 30 lessons with a teacher trainer. in out-of-class and after-school activities. al evaluation: servation records from lessons. esson projects of preparation for lessons. t of observations and own lesson of the trainee. valuation of the trainee's teaching practice. bort on the continuous pedagogical practice. edback sheet from the continuous pedagogical practice. sful completion of the course: bong and final assignments.
pedagogical skills in t	l supervision of an experienced teacher trainer, the student acquires practical eaching the subject of informatics. He gets acquainted with school life, out- ool activities activities.
Brief outline of the co Observations of teacher aids, leading own less	ourse: er trainer lessons, consultations of lesson preparations, preparation of teaching

KOSOVÁ, Beata, Alena TOMENGOVÁ et al., 2015. Profesijná praktická príprava budúcich učiteľov [online]. Banská Bystrica: Vydavateľstvo Belianum, Univerzita Mateja Bela, Banská Bystrica, 226 pp. [cited. 2021-7-28]. ISBN 978-80-557-0860-7. Available from: https://publikacie.umb.sk/publication/publicationFileDownload.php?ID=18667

OROSOVÁ, Renáta and Zuzana BOBEROVÁ, 2016. Pregraduálna príprava učiteľov: Organizácia pedagogickej praxe na UPJŠ [online]. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 142 pp. [cited 2021-7-28]. ISBN 978-80-8152-460-8. Available from: https:// unibook.upjs.sk/sk/pedagogika/342-pregradualna-priprava-ucitelov-organizacia-pedagogickejpraxe-na-upjs

BOBEROVÁ, Zuzana, 2017. Začínajúci učiteľ a školská legislatíva I. [online]. Košice:

Univerzita Pavla Jozefa Šafárika v Košiciach, 104 pp. [cited 2021-7-28]. ISBN

978-80-8152-490-5. Available from: https://unibook.upjs.sk/sk/pedagogika/398-zacinajuci-ucitel-a-skolska-legislativa-i

Current informatics textbooks for primary and secondary schools in Slovakia.

Course language:

Slovak

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 19

abs	n
100.0	0.0

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 04.08.2021

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science			_	
Course ID: KPE TTUP/15	Course na	ame: Creating Te	ext Teaching Aids	5	
Course type, sco Course type: P Recommended Per week: 2 Pe Course methoo	ractice course-load (h r study period:	ours):			
Number of ECT	S credits: 2				
Recommended s	semester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for a	ourse completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Notes:					
Course assessm Total number of		.ts: 278			
А	В	С	D	Е	FX
57.55	31.29	7.91	2.52	0.72	0.0
Provides: doc. P	aedDr. Renáta (Drosová, PhD., N	Igr. Zuzana Vaga	ská, PhD.	
Date of last mod	lification: 12.03	3.2024			
Approved: prof. profesor, prof. R	-		. RNDr. Marcel U	Jhrin, PhD., univ	erzitný

Faculty: Faculty of S	clence
Course ID: ÚINF/	
ODPU/22	Course name: Defence of diploma thesis
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:
Number of ECTS cr	edits: 14
Recommended seme	ster/trimester of the course:
Course level: II.	
Prerequisities:	
fraud and must meet 21/2021, which lays Košice and its composite	the result of the student's own work. It must not show elements of academic the criteria of good research practice defined in the Rector's Decision no. down the rules for assessing plagiarism at Pavol Jozef Šafárik University in nents. Fulfillment of the criteria is verified mainly in the process of supervision thesis defense. Failure to do so is reason for disciplinary action.
	emonstrates mastery of extended theory and professional terminology of the
profile of the graduate selected field problem of content, formal and 1/2011 on the basic r	e of the study program, as well as the ability to apply them creatively in solving ns. Student demonstrates the ability of independent professional work in terms d ethical. Further details on the diploma thesis are determined by Directive no
profile of the graduate selected field problem of content, formal and 1/2011 on the basic r the 1st, 2nd and comb Brief outline of the c 1. Elaboration of the 2, Presentation of the	
profile of the graduate selected field problem of content, formal and 1/2011 on the basic r the 1st, 2nd and comb Brief outline of the c 1. Elaboration of the 2, Presentation of the 3. Answering question Recommended litera	e of the study program, as well as the ability to apply them creatively in solving as. Student demonstrates the ability of independent professional work in terms d ethical. Further details on the diploma thesis are determined by Directive no. equirements of final theses and the Study Regulations of UPJŠ in Košice for bined 1st and 2nd degree. ourse: diploma thesis in accordance with the instructions of the supervisor. results of the diploma thesis before the examination commission. ns related to the topic of the diploma thesis within the discussion.
profile of the graduate selected field problem of content, formal and 1/2011 on the basic r the 1st, 2nd and comb Brief outline of the c 1. Elaboration of the 2, Presentation of the 3. Answering question Recommended litera The recommended litera	e of the study program, as well as the ability to apply them creatively in solving as. Student demonstrates the ability of independent professional work in terms d ethical. Further details on the diploma thesis are determined by Directive no. equirements of final theses and the Study Regulations of UPJŠ in Košice for bined 1st and 2nd degree. ourse: diploma thesis in accordance with the instructions of the supervisor. results of the diploma thesis before the examination commission. ns related to the topic of the diploma thesis within the discussion.

Course assess	ment				
Total number of	of assessed studen	ts: 4			
А	В	С	D	Е	FX
50.0	25.0	0.0	0.0	25.0	0.0
Provides:	· · · · · ·			· · · · · ·	
Date of last m	odification: 08.02	.2022			
	of. PhDr. Ol'ga Orc RNDr. Stanislav K		. RNDr. Marcel	Uhrin, PhD., unive	erzitný

University: P. J. Šafá	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚBEV/ DNR/06	BEV/ Course name: Dendrology	
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28	
Number of ECTS cr	redits: 5	
Recommended seme	ester/trimester of the course: 2.	
Course level: II.	-	
Prerequisities:		

Conditions for course completion:

1. Attending lectures is optional, participation in exercises is mandatory. 2. During the exercises, it is necessary to master the recognition of selected trees and shrubs in their various phenological phases according to significant identifying features (buds, bark, shape of leaves and flowers, habitus) and some species-specific features (cork wings, thorns, prominent pubescence, distinctive color of shoots in winter, etc.). 3. Within the framework of forest tree seed production, it is necessary to master the identification of fruits and seeds of selected taxa of woody plants.

Learning outcomes:

Brief outline of the course:

1. Summary of basic terms within the subject Dendrology. 2. Individual variability of woody plants (morphological, biochemical, biological, technical forms). 3. Geographic variability of woody plants (climate type, edaphotype). 4. Individual ecological requirements of woody plants with a basic overview of taxa (woody plants in shade and sunny conditions, oceanic and continental climate). 5. Special communities of woody plants, their characteristics and overview of the most important taxa. Pioneer woody plants, melioration woody plants, woody plants in ravines and scree, forest-steppe woody plants, floodplain woody plants, peatland woody plants and woody plants of upper forest border. 6. Saving the gene pool of forest trees (generative and clone seed orchards, selected trees and stands). 7. Selected chapters from the seed production of forest trees (external and internal factors of seed production, methods of collecting and technology of seed processing and its subsequent storage). 8. Selected chapters from forest tree seed production (seed lifespan, short-term and long-term seed storage, germination ability and germination process, methods of pre-sowing seed preparation). 9. Introduction of woody plants - definition of the term, phases of introduction. Benefits of introduction and possible environmental risks. 10. Invasive trees, overview and characteristics of the most important taxa. Ecological, economic and health consequences of invasions. 11. The most important dendrological objects in Slovakia (Mlyňany Arboretum, Borová hora Arboretum, Kysihýbel Arboretum, Topoľčianky Castle Park). 12. Introduction to arboriculture, protection and care of trees growing outside the forest. The exercises are aimed at practical recognizing the most important coniferous and deciduous both native and introduced trees. During the summer semester, dealing with woody plants in the winter (in a sterile state), the specific characteristics of woody plants (general habitus of the wood, buds, thorns, specific color of the surface of the branch, pubescence, cork lamellas, etc.). During the growing season, recognizing the shape of the leaves and flowers..

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 83

72.29	13.25	7.23	7.23	0.0	0.0
Provides: Ing. Peter Kelbel, Dr.					

Date of last modification: 19.07.2022

University DI Č C	
University: P. J. Safa	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ TSM1a/15	Course name: Development and processing of multimedia
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): Idy period: 28
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 1., 3.
Course level: I., II.	
Prerequisities:	
 Creation of an educe Creation of an instruction Conditions for succession 	ng evaluation:
a) deepen the knowleprocessing of multimb) create multimediaselected topics of sch	teaching aids with accompanying methodological commentary for teaching
	rocessing of raster image. rocessing of raster image. ns. graphics. graphics. graphics. orinting pointing bund processing.
11. Digitization and v	video processing
-	

LACHS, V., 2000. Making Multimedia in the Classroom. London : RoutledgeFalemer. ISBN 0415216842.

GÖBEL, S. et al., 2006. Technologies for Interactive Digital Storytelling and Entertainment (LNCS 4326). Darmstadt : Springer. ISBN 3540499342.

ADÁMEK, R. et al., 2010. Moderná didaktická technika v práci učiteľa. Elfa, s.r.o., Košice. ISBN 978-80-8086-135-3.

GUNIŠ, Ján, Ľudmila JAŠKOVÁ, Katarína MIKOLAJOVÁ and Jana PEKÁROVÁ, 2009. Ďalšie vzdelávanie učiteľov základných škôl a stredných škôl v predmete informatika: Multimédiá. Bratislava: Štátny pedagogický ústav, 52 p. ISBN 978-80-89225-51-4. Also available from: https://www.statpedu.sk/files/sk/o-organizacii/projekty/projekt-dvui/publikacie/ multimedia.pdf

ŠNAJDER, Ľubomír and Marián KIREŠ, 2005. Informatika pre stredné školy - Práca s multimédiami: tematický zošit. Bratislava: Slovenské pedagogické nakladateľstvo. ISBN 80-10-00422-7.

Course language:

Slovak and partly English due to selected programs and information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 28

А	В	С	D	Е	FX
64.29	17.86	10.71	3.57	3.57	0.0

Provides: doc. RNDr. Ľubomír Šnajder, PhD., RNDr. Katarína Brinziková

Date of last modification: 24.08.2021

cience
Course name: Development and processing of multimedia
nd the method: e rse-load (hours): dy period: 28 sent
edits: 2
ster/trimester of the course: 2., 4.
e completion: ig evaluation: image. ation. I or melody. media application. sful completion of the course: 6 of points for ongoing assignments.
course, students are able to: rinciples and procedures in multimedia programming, n multimedia applications.
burse: Ill images. Ill images

Publishing. ISBN 978-1-849510-16-5. GUNIŠ, Ján, Viera MICHALIČKOVÁ, Martin CÁPAY a Ľubomír ŠNAJDER, 2020. Riešenie problémov a programovanie [online]. Bratislava: Centrum vedecko-technických informácií SR [cited 2021-7-10]. ISBN 9788089965625. Available from: https://registracia.itakademia.sk/ media/themes/nip-rpp.pdf

BLAHO, Andrej, 2016. Programovanie v Pythone 1 (prednášky k predmetu Programovanie (1) 1-AIN-130/13) [online]. Bratislava: Knižničné a edičné centrum FMFI UK, 322 s. [cited 2021-7-10]. ISBN 978-80-8147-067-7. Available from: http://python.input.sk/

Course language:

Slovak and partly English due to selected programs and information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 6

А	В	С	D	Е	FX
16.67	66.67	16.67	0.0	0.0	0.0

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 24.08.2021

University: P. J. Šafár	rik University in Košice
Faculty: Faculty of So	cience
Course ID: KPPaPZ/VPU/17	Course name: Developmental Psychology for Teachers
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	e se-load (hours): dy period: 28
Number of ECTS cre	edits: 2
Recommended semes	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
final test - 40%	-
characterize the norm school age and adoles published in foreign j the topics covered. Th	derstand the principles of developmental psychology, and will be able to a in separate developmental stages with a specific focus on the period of cence. As part of the seminar work, a students will process current knowledge journals. They will have a knowledge about the current social discourse on the graduate will be able to consider various aspects of the possible influence is on the development of piupils and apply the knowledge of developmental ctice of the teacher.
Socialization in separ in the period of sch development. Applica - communication with	Durse: actors of development, cognitive development, personality development. rate developmental stages (family, peers, school). Specifics of development ool age, in pubescence and adolescence. Parents and their role in child ation of knowledge of developmental psychology in the teacher's practice th students in different developmental stages, creating a teacher-student ect to the development needs of the student.
Vágnerová, M. Vývoj Říčan, P. Cesta živote Thorová, K. Vývojov Macek, P. Adolescenc Matějček, Z rôzne c Bačíková, M. Psychol	 B). Keď dieťa potrebuje nielen psychológa. Grada publishing. B). Keď dieťa potrebuje nielen psychológa. Grada publishing. B) pová psychologie. Portál, Praha 2000 A) psychologie. Portál, Praha, 2015. C) Praha: Portál, 2003
Course language:	

Notes:					
Course assessn Total number o	nent f assessed studen	ts: 135			
А	В	С	D	Е	FX
79.26	15.56	2.96	2.22	0.0	0.0
Provides: doc.	Mgr. Mária Bačíl	ková, PhD.		<u>.</u>	•
Date of last mo	dification: 03.09	0.2024			
	f. PhDr. Ol'ga Oro RNDr. Stanislav F		. RNDr. Marcel U	Jhrin, PhD., univ	verzitný

	irik University in Košice					
Faculty: Faculty of Science						
Course ID: ÚBEV/ DIB1/03						
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 3 Per Course method: pro-	re / Practice rse-load (hours): study period: 28 / 42					
Number of ECTS cr	redits: 6					
Recommended seme	ester/trimester of the course: 2.					
Course level: II.						
Prerequisities: KPPa	aPZ/PPgU/15 or KPE/DPP/14 or KPE/PDU/15					
lecture, the develope the final project acco final exam is oral. T Average points for co A for an average of average 7-8 b. = C, (evaluation is part of points to a grade: A 9	se completion: ct with compulsory participation in exercises. The activity at the output of the d and continuously submitted solutions to assignments from the exercises and ording to the assignment at the beginning of the semester are evaluated. The he share of the grade from the evaluated activities on the final grade: 10% - ompleted assignments (min. 8 points/item) is counted as the value of the grade 9-10 b. as B for average 8-9 b. For a lower average value after correction: 6-7 b. = D, 5-6 b. = E. 10% - Output at the lecture. 20% - semester project f the evaluation form). 60% - the result of the final oral exam. Conversion of 95 - $100 \text{ B } 85 - 94 \text{ C } 65 - 84 \text{ D } 55 - 64 \text{ E } 50 - 54 \text{ FX } 0 - 49 \text{ The resulting grade}$ ighted average according to the standard value of classification grades A to E.					
Learning outcomes:	ts teaching biology in high school and an elementary school. Learn and apply					

- 1 Didactics of biology in the system of sciences
- 2 Domains of biology education
- 3 Biology standards
- 4 Curriculum and textbooks in SR
- 5 Biological sciences
- 6 Complex of didactic tools of biology
- 7 Hands-on education as an educational concept
- 8 Teaching organization forms
- 9 Lesson preparation
- 10 Principles of knowledge
- 11 Formative and summative evaluation in biology
- 12 Biological educational strategies
- 13 Teaching aids of biology
- 14 School garden and the environment corner at school

15 Biological excursion

16 Working with talents and biological competitions for students

Recommended literature:

Katarína Kimáková Sprievodca didaktikou biológie, 2022 Šafárik press UPJŠ v Košiciach https:// unibook.upjs.sk/img/cms/2022/sprievodca-didaktikou-biologie.pdf Ganajová, M. a kol. Formatívne hodnotenie vo výučbe prírodných vied, matematiky a informatiky. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 2021. ISBN 9788081529733. Ganajová a kol. Formatívne hodnotenie a jeho implementácia do výučby prírodných vied, matematiky a informatiky. Bratislava: Wolters Kluwer SR, 2022. Školstvo. ISBN 9788057104834. Samuel Kai Wah Chu · Rebecca B. Reynolds, Nicole J. Tavares · Michele Notari, Celina Wing Yi Lee 21st Century Skills Development Through Inquiry Based Learning From Theory to Practice, Springer 2017 https://link.springer.com/content/pdf/10.1007/978-981-10-2481-8.pdf Kimáková, K.: Úvod do štúdia didaktiky biológie, elektronický študijný text, 2008 Kireš, M., Ješková, Z., Ganajová, M, Kimáková K.. Bádateľské aktivity v prírodovednom vzdelávaní, ŠPÚ 2016 Periodical publications for teaching biology. Internal study materials in Moodle https:// lms.upjs.sk/login/index.php Existing curriculum standards and biology textbooks for elementary and secondary schools Fišer, R.: Učíme deti myslet a učit se. Praha: Portál, 2011. 176 s. ISBN 978-80262-0043-7 Gavora, P.: Akí sú moji žiaci. (Pedagogická diagnostika žiaka). Nitra: ENIGMA, 2011. 216 s. ISBN 978-80-89132-91-1 Karnsová, M.: Jak budovat dobrý vztah mezi učitelem a žákem. Praha: Portál, 1995. 151 s. ISBN 80-7178-032-4

Kotrba, T., Lacina, L.: Praktické využití aktivizačných metod ve výuce. Brno: Společnost pro odbornou literaturu, 2007. 188 s. ISBN 978-80-87029-12-1

Kyriacou, Ch.: Klíčové dovednosti učitele. Praha: Portál, 1996. 153 s. ISBN 80-7178-022-7 Petty, G.: Moderní vyučování. Praha: Portál, 2013. 380 s. ISBN 80-7178-070-7

Silberman, M.: 101 Metod pre aktivní výcvik a vyučování. Praha: Portál, 1997. 312 s. ISBN: 80-7178-124-X

Course language:

SK, EN

Notes:

Course assessment

Total number of assessed students: 686

А	В	С	D	Е	FX
53.06	29.15	14.29	3.35	0.15	0.0

Provides: PaedDr. Andrea Lešková, PhD., RNDr. Anna Mišianiková, PhD., Mgr. Zuzana Boberová, PhD.

Date of last modification: 12.02.2024

	irik University in Košice					
Faculty: Faculty of S	Science					
Course ID: ÚINF/ DIN1a/15						
Course type, scope a Course type: Practi- Recommended cou Per week: 3 Per stu Course method: pro	ce rse-load (hours): ıdy period: 42					
Number of ECTS cr	redits: 3					
Recommended seme	ester/trimester of the course: 2.					
Course level: II.						
Prerequisities:						
 by 1 disponible hour. 2. Creation of a corrinformatics. 3. Creation of a grade 4. Proposal for the proposal for the proposal for succes Obtaining at least 50 Learning outcomes: After completing this a) acquire an overvious informatics, 	hatic plan for teaching informatics at secondary or elementary school extended incept map and specific educational objectives for selected topic of school ed system of tasks for teaching selected topic of school informatics. reparation of a lesson with a 5E inquiry cycle. ssful completion of the course: % of points for ongoing assignments.					
school informatics,						
c) create a inquiry-ba	ased methodology of teaching a seleced topic of school informatics.					
 Objectives and c educational program. Maturita on information plan. Logical structure constructives and creational task, in the structure of the structure	controlse: content of teaching informatics in primary and secondary schools. State . Informatics textbooks. matics. Examples of school educational programs. Designing own thematic of the curriculum, conceptual mapping. Determination of specific educational on of a concept map for a selected topic of school informatics (RBT). its forms, and parameters. A graded system of tasks. ed system of tasks for teaching a selected topic of school informatics. Is of teaching school informatics (discussion and situational methods).					

9. Activating methods of teaching school informatics (project teaching, flipped learning).

10. Inquiry-based learning, inquiry cycle, inquiry skills, levels of inquiry, 5E learning cycle.

11. Formative assessment, cognitive and metacognitive tools. Creating a worksheet with selected formative assessment tools.

12. Creating preparation for a lesson with a 5E learning cycle.

Recommended literature:

HAZZAN, Orit, Tami LAPIDOT and Noa RAGONIS, 2011. Guide to teaching computer science: an activity-based approach. New York: Springer. ISBN 9780857294425.

LAU, William, 2017. Teaching Computing in Secondary Schools: A Practical Handbook [online]. Taylor & Francis Group, 211 p. [cited 2021-7-10]. ISBN 9781315298191. Available from:

https://ebookcentral.proquest.com/lib/upjs-ebooks/detail.action?docID=5056529

ČAPEK, Robert, 2015. Moderní didaktika: lexikon výukových a hodnoticích metod. Praha: Grada. Pedagogika (Grada). ISBN 978-80-247-3450-7.

LUKÁČ, Stanislav, Ľubomír ŠNAJDER, Ján GUNIŠ and Zuzana JEŠKOVÁ, 2016. Bádateľsky orientované vyučovanie matematiky a informatiky na stredných školách [online]. Košice: Prírodovedecká fakulta UPJŠ v Košiciach [cited 2021-7-10]. ISBN 978-80-8152-471-4. Available from: https://unibook.upjs.sk/img/cms/2016/pf/bov.pdf

SPENDLOVE, David, 2015. 100 Ideas for Secondary Teachers: Assessment for Learning [online]. Bloomsbury Publishing, 129 p. [cited 2021-7-9]. ISBN 9781472911018. Available from:: https://ebookcentral.proquest.com/lib/upjs-ebooks/detail.action?docID=1990785 GANAJOVÁ, Mária, Beáta BRESTENSKÁ, Ján GUNIŠ, et al., 2021. Formatívne hodnotenie vo výučbe prírodných vied, matematiky a informatiky. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach. ISBN 978-80-8152-973-3.

GUNIŠ, Ján, Miloslava SUDOLSKÁ and Ľubomír ŠNAJDER, 2009. Ďalšie vzdelávanie učiteľov základných a stredných škôl v predmete informatika: Aktivizujúce metódy vo výučbe školskej informatiky. Bratislava: Štátny pedagogický ústav, 40 p. ISBN 978-80-89225-96-5. Also available from: https://www.statpedu.sk/files/sk/o-organizacii/projekty/projekt-dvui/publikacie/ aktivizujuce_metody.pdf

Course language:

Slovak and partly English due to selected programs and information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 80

А	В	С	D	Е	FX
30.0	18.75	20.0	18.75	11.25	1.25

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 01.08.2021

	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚINF/ DIN1b/15						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28					
Number of ECTS cr	edits: 5					
Recommended seme	ster/trimester of the course: 3.					
Course level: II.						
Prerequisities:						
 Microteaching with Assessment of adm Creation of an assign junior competition, conditions for the firm Elaboration of a firm Elaboration of a firm Presentation of own Conditions for success Obtaining at least 500 	ng evaluation: practive educational aid. h a sample solution of an algorithmic problem. ninistered didactic test. gnment and a commented author's solution of the STEAM task for the PALMA orrection, and assessment of student solutions. hal evaluation: inal paper focused on the conceptual process, creation of assignments with ctions, naming misconceptions, and assessment of learning outcomes of					
a) select and explainb) create and presentc) analyze and assess	n teaching portfolio.					
 Assessment of stud Assessment of stud Conceptual proces Informatics conception Informatics conception 	dents' learning outcomes in school informatics. Didactic tests. dent projects. Student portfolio. s in school informatics. ots in informatics competitions (iBobor). ots in activities outside the computer (Computer Science Unplugged). teaching selected topics in the field of Representation and tools (coding.					

7. Methodology of teaching selected topics in the field of Representation and tools (encryption, steganography).

8. Methodology of teaching selected topics in the field of Representation and tools (data analysis and visualization).

9. Methodology of teaching selected topics in the field of Communication and Cooperation (communication and collaboration tools).

10. Methodology of teaching selected topics in the field of hardware and software (kits with sensors and actuators).

11. Methodology of teaching selected topics in the field of Information Society (information security and cybersecurity).

12. Completion of the portfolio of an informatics teacher (thematic plan, preparations from teaching self-reflection of student, worksheet with formative assessment tools, interactive educational aid, sample solution of an algorithmic problem, maturita assignment, system of tasks with increasing difficulty, assessment of an administered didactic test).

Recommended literature:

HAZZAN, Orit, Tami LAPIDOT and Noa RAGONIS, 2011. Guide to teaching computer science: an activity-based approach. New York: Springer. ISBN 9780857294425.

LAU, William, 2017. Teaching Computing in Secondary Schools: A Practical Handbook [online]. Taylor & Francis Group, 211 p. [cited 2021-7-10]. ISBN 9781315298191. Available from: https://ebookcentral.proquest.com/lib/upjs-ebooks/detail.action?docID=5056529

COMPUTER SCIENCE EDUCATION RESEARCH GROUP AT THE UNIVERSITY OF CANTERBURY, NEW ZEALAND. Computer Science Field Guide: An online interactive resource for high school students learning about computer science [online]. [cited 2021-7-10]. Available from: https://www.csfieldguide.org.nz/en/

COMPUTER SCIENCE EDUCATION RESEARCH GROUP AT THE UNIVERSITY OF CANTERBURY, NEW ZEALAND. Computer Science without a computer [online]. [cited 2021-7-10]. Available from: https://csunplugged.org/en/

QUEEN MARY, UNIVERSITY OF LONDON. Computer Science For Fun: A magazine where the digital world meets the real world [online]. [cited 2021-7-10]. Available from: http://www.cs4fn.org/

GUNIŠ, Ján and Ľubomír ŠNAJDER, 2009. Ďalšie vzdelávanie učiteľov základných škôl a stredných škôl v predmete informatika: Tvorba úloh a hodnotenie žiakov v predmete informatika. Bratislava: Štátny pedagogický ústav, 40 p. ISBN 978-80-8118-012-5. Also available from: https://www.statpedu.sk/files/sk/o-organizacii/projekty/projekt-dvui/publikacie/ tvorba_uloh_a_hodnotenie.pdf

GUNIŠ, Ján and Ľubomír ŠNAJDER, 2010. Ďalšie vzdelávanie učiteľov základných škôl a stredných škôl v predmete informatika: Metodika výučby tematickej oblasti Informácie okolo nás. Bratislava: Štátny pedagogický ústav, 40 p. ISBN 978-80-8118-030-9. Also available from: https://www.statpedu.sk/files/sk/o-organizacii/projekty/projekt-dvui/publikacie/ metodika_informacie_okolo_nas.pdf

GUNIŠ, Ján and Ľubomír ŠNAJDER, 2010. Ďalšie vzdelávanie učiteľov základných škôl a stredných škôl v predmete informatika: Metodika výučby tematickej oblasti Komunikácia prostredníctvom IKT. Bratislava: Štátny pedagogický ústav, 32 p. ISBN 978–80–8118–036-1. Also available from: https://www.statpedu.sk/files/sk/o-organizacii/projekty/projekt-dvui/ publikacie/metodika_komunikacia_prostrednictvom_ikt.pdf

GUNIŠ, Ján and Ľubomír ŠNAJDER. Ďalšie vzdelávanie učiteľov základných škôl a stredných škôl v predmete informatika: Metodika výučby oblastí Princípy fungovania IKT a Informačná spoločnosť. Bratislava: Štátny pedagogický ústav, 32 p. ISBN 978–80–8118–045-3. Also

available from: https://www.statpedu.sk/files/sk/o-organizacii/projekty/projekt-dvui/publikacie/ metodika_informacna_spolocnost.pdf

Course language:

Slovak and partly English due to selected programs and information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 160

А	В	С	D	Е	FX
18.75	33.13	23.75	15.63	8.13	0.63

Provides: doc. RNDr. Ľubomír Šnajder, PhD., PaedDr. Ján Guniš, PhD., univerzitný docent

Date of last modification: 01.08.2021

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚINF/ DPRG/19Course name: Didactics of programmin					
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: 2.

Course level: II.

Prerequisities:

Conditions for course completion:

Conditions for ongoing evaluation:

1. Creation of an assignment and an commented author's solution of a task using several problemsolving strategies.

2. Proposal of a pair of maturita assignments with solutions and methodological comments.

3. Creation of an assignment and an commented author's solution of the STEAM task for the PALMA junior competition, correction and evaluation of student solutions.

Conditions for the final evaluation:

1. Creation and presentation of the final project with a collection of solved and commented tasks for a selected topic of programming in Python.

2. Elaboration of a final test focused on the elaboration of sample and commented solutions to given problems in Python and Scratch languages.

Conditions for successful completion of the course:

Obtaining at least 50% of points for ongoing and final assignments.

Learning outcomes:

After completing this course, students are able to:

a) define specific educational objectives for a selected topic of programming,

b) create assignments and sample solutions for STEAM tasks using various problem-solving strategies,

c) analyze and evaluate solutions to student tasks and identify their misconceptions,

d) design a methodology for teaching a selected programming topic.

Brief outline of the course:

1. Educational standards in programming in secondary and primary schools. Graduation in informatics.

2. Programming competitions.

- 3. Algorithmic thinking. Algorithmic games.
- 4. Computational thinking. Problem solving strategies.
- 5. Data structures around us, algorithms over data structures.
- 6. Teaching selected algorithms and problem solving strategies (recursion).
- 7. Basic concepts and misconceptions of programming.

- 8. Teaching programming in Scratch.
- 9. Teaching programming in AppInventor.
- 10. Teaching programming in Python.
- 11. Programming of mathematical models of selected phenomena/systems.
- 12. Specifics of computer arithmetic.

Recommended literature:

BEECHER, Karl, 2017. Computational thinking: A beginner's guide to problem-solving and programming. © BCS Learning & Development, 308 p. ISBN 978-1-78017-36-41.

COMPUTING AT SCHOOL. Computational Thinking Concepts and Approaches

Barefoot [online]. [cited 2021-7-12]. Available from: https://www.barefootcomputing.org/ concept-approaches/computational-thinking-concepts-and-approaches

FINCHER, Sally and Marian PETRE, 2004. Computer science education research. New York: Taylor & Francis. ISBN 9789026519697.

GUTSCHANK, Jörg et al. 2019. coding in STEM Education [online]. Berlin: Science

on Stage Deutschland e.V., 76 p. [cited 2021-7-10]. ISBN 978-3-942524-58-2.

Available from: https://www.science-on-stage.eu/sites/default/files/material/

coding_in_stem_education_en_2nd_edition.pdf

BRIGGS, Jason R., 2013. Python for kids: a playful introduction to programming. San Francisco: No Starch Press. ISBN 1593274076.

BLAHO, Andrej, 2016. Programovanie v Pythone 1 (prednášky k predmetu Programovanie (1) 1-AIN-130/13) [online]. Bratislava: Knižničné a edičné centrum FMFI UK, 322 p. [cited

2021-7-10]. ISBN 978-80-8147-067-7. Available from: http://python.input.sk/

ŠNAJDER, Ľubomír and Ján GUNIŠ, 2014. Tvorba úloh pre programátorské súťaže

[online]. 1. Košice: Prírodovedecká fakulta UPJŠ v Košiciach, 79 p. [cited 2021-7-10]. ISBN 978-80-8152-139-3. Available from: https://unibook.upjs.sk/img/cms/2014/pf/tvorba-uloh-pre-prog-sutaze.pdf

GUNIŠ, Ján and Ľubomír ŠNAJDER, 2021. Programovanie v Pythone 1. Košice: Prírodovedecká fakulta UPJŠ v Košiciach, 170 p. ISBN 978-80-8152-969-6. Also available from: https://unibook.upjs.sk/img/cms/2021/pf/programovanie-v-pythone-1.pdf

GUNIŠ, Ján, Viera MICHALIČKOVÁ, Martin CÁPAY and Ľubomír ŠNAJDER, 2020. Riešenie problémov a programovanie [online]. Bratislava: Centrum vedecko-technických informácií SR [cited 2021-7-10]. ISBN 9788089965625. Available from: https://registracia.itakademia.sk/ media/themes/nip-rpp.pdf

ŠNAJDER, Ľubomír, Gabriela LOVÁSZOVÁ, Viera MICHALIČKOVÁ and Ján GUNIŠ, 2020. Programovanie mobilných zariadení [online]. Bratislava: Centrum vedecko-technických informácií SR, 300 p. [cited 2020-11-30]. ISBN 978-80-89965-63-2. Available from: https://registracia.itakademia.sk/media/themes/nip-pmz.pdf

Course language:

Slovak and partly English due to selected programs and information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 149

А	В	С	D	Е	FX
14.77	33.56	22.15	14.09	12.08	3.36

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 03.08.2021

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	science			
Course ID: ÚINF/ DPP2/14	Course name: Diplom	a Project II		
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:			
Number of ECTS cr	redits: 2			
Recommended seme	ester/trimester of the co	ourse: 2.		
Course level: II.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 15			
	abs	n		
	100.0 0.0			
Provides:				
Date of last modifica	ation:			
	Dr. Oľga Orosová, CSc., Stanislav Krajči, PhD.	doc. RNDr. Marcel Uhrin, PhD., univerzitný		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚBEV/ DPP2/22	Course name: Diploma Pr	oject II
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: 3	
Recommended seme	ster/trimester of the cours	e: 2.
Course level: II.		
Prerequisities:		
	e of the supervisor with the	research process, regular consultations, study of essary, modification of the project.
1		methodology and obtained the first results. He t, where the assignment of the diploma thesis is
Brief outline of the c Data collection to ver	ourse: ify hypotheses, study of cur	rent literature.
diploma thesis assign requisites of final the access, including ann 15 March 2010 no. M rigorous and habilitati and habilitation thesis theses and habilitatio and control of original Supplement no. 1 and	ssional literature on a specif ment. Methodological guide ses, their bibliographic regis exes; Decree of the Ministry IŠSR-5 / 2010-071 on the m ion thesis and the format of s; Directive no. 1/2011 on the n theses, their publication an ility valid for Pavel Jozef Ša	ic topic of the diploma thesis is a part of the eline 14/2009-R of 27 August 2009 on the stration, control of originality, storage and v of Education of the Slovak Republic of odel of the cover and title page of the final, the exchange of data on the final, rigorous he basic requirements of final theses, rigorous and making available during their preservation offarik University in Košice and its components; 11 Template for the creation of ZP in dot and ter of Final Theses)
Course language:		
Notes:		
Course assessment Total number of asses	ssed students: 33	
	-1	
	abs	n

Provides:

Date of last modification: 13.05.2022

Faculty: Faculty of S	
Faculty. Faculty of S	cience
Course ID: ÚBEV/ DPP3/22	Course name: Diploma Project III
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: 3
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
•	e completion: as on the progress and results of the project with the thesis supervisor. inar on a diploma project with preliminary results.
aids. He has the data and formulate conclu	d the obtained data and / or verified the created methodological materials or to process the theoretical part of his thesis and to confirm / refute hypotheses isions. He begins to formulate the text of his diploma thesis and continues to
monitor new relevant	t information.
	tinformation.
Brief outline of the c Processing and interp Recommended litera Recommended profe diploma thesis assign requisites of final the access, including ann 15 March 2010 no. M rigorous and habilitati and habilitation thesi theses and habilitatio and control of origina	t information.
Brief outline of the c Processing and interp Recommended litera Recommended profe diploma thesis assign requisites of final the access, including ann 15 March 2010 no. M rigorous and habilitati and habilitation thesi theses and habilitatio and control of origina	t information. Fourse: pretation of results. Solution: ssional literature on a specific topic of the diploma thesis is a part of the ment. Methodological guideline 14/2009-R of 27 August 2009 on the ses, their bibliographic registration, control of originality, storage and nexes; Decree of the Ministry of Education of the Slovak Republic of MŠSR-5 / 2010-071 on the model of the cover and title page of the final, tion thesis and the format of the exchange of data on the final, rigorous s; Directive no. 1/2011 on the basic requirements of final theses, rigorous n theses, their publication and making available during their preservation ality valid for Pavel Jozef Šafárik University in Košice and its components; d no. 2 to Directive no. 1/2011 Template for the creation of ZP in dot and

Course assessment Total number of assessed students: 53	
abs	n
100.0	0.0
Provides:	
Date of last modification: 13.05.2022	
Approved: prof. PhDr. Oľga Orosová, CSc., dod profesor, prof. RNDr. Stanislav Krajči, PhD.	c. RNDr. Marcel Uhrin, PhD., univerzitný

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ DPP3/14	Course name: Diplom	Course name: Diploma Project III		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:			
Number of ECTS cr	edits: 2			
Recommended seme	ester/trimester of the co	burse: 3.		
Course level: II.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 9			
	abs	n		
	100.0	0.0		
Provides:				
Date of last modifica	ntion:			
	Dr. Oľga Orosová, CSc., Stanislav Krajči, PhD.	doc. RNDr. Marcel Uhrin, PhD., univerzitný		

University: P. J.	. Šafárik Univers	sity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚB ODP/22	EV/ Course n	ame: Diploma Tl	nesis and its Defe	nse	
	d course-load (h study period:				
Number of EC	FS credits: 14				
Recommended	semester/trime	ster of the cours	e:		
Course level: II					
Prerequisities:	ÚBEV/DPP3/22	2			
academic fraud no. 21/2021, wh in Košice and it and in the proce Learning outco With the diplor terminology of with the declared in an original w of content, form 1/2011 on the b	esis is the result and must meet the nich lays down the ts components. He ess of job defens mes: ma thesis the stat the field of study and profile of the ay. The student of and ethical. F	of the student's of ne criteria of good he rules for asses Fulfillment of the e. Failure to do so udent demonstrat y, acquisition of k graduate of the st demonstrates the urther details of t ts of final theses	research practice sing plagiarism a criteria is verifie o is grounds for d es mastery of ex cnowledge, skills udy program, as ability of indeper he diploma thesis	e defined in the R t Pavel Jozef Ša ed mainly in the isciplinary actio tended theory a and competence well as the abilit ident professions are determined	ector's Decision fárik University training process on. and professional es in accordance ty to apply them al work in terms by Directive no.
	the course:				
Presentation of Qualified discus	he printed version work results and ssion on the topi	he diploma thesis on to the opponen l answers to oppo c with the commi	t. nents' questions.	s state final exam	ns.
Presentation of Qualified discus Recommended	he printed version work results and ssion on the topi	on to the opponen l answers to oppo c with the commi	t. nents' questions.	s state final exar	ns.
Presentation of Qualified discus Recommended	he printed version work results and ssion on the topi literature: proved thesis as	on to the opponen l answers to oppo c with the commi	t. nents' questions.	s state final exar	ns.
Presentation of Qualified discus Recommended Listed in the ap	he printed version work results and ssion on the topi literature: proved thesis as	on to the opponen l answers to oppo c with the commi	t. nents' questions.	s state final exam	ns.
Presentation of Qualified discus Recommended Listed in the ap Course languag Notes: Course assessm	he printed version work results and ssion on the topi literature: proved thesis ass ge:	on to the opponen l answers to oppo c with the commi signment.	t. nents' questions.	s state final exam	ns.
Presentation of Qualified discus Recommended Listed in the ap Course languag Notes: Course assessm	he printed version work results and ssion on the topi literature: proved thesis ass ge:	on to the opponen l answers to oppo c with the commi signment.	t. nents' questions.	s state final exam	ns. FX

Provides:

Date of last modification: 13.05.2022

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚBEV/ DPP1/22	Course name: Diploma project I
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:
Number of ECTS cr	edits: 2
Recommended seme	ster/trimester of the course: 1.
Course level: II.	
Prerequisities:	
research plan. Active	e completion: e of the supervisor with the progress on the agreed tasks. Submission of a e participation in seminars organized for diploma projects implemented a he topic of the project and the assignment of the diploma thesis are listed.
questions and has a return the diploma project at on a topic listed at A	tered the theoretical preparation for the assigned topic, formulates research esearch plan, or the first preliminary results. The student can also implement t a workplace outside the UPJŠ under the guidance of an expert from practice PU ÚBEV PF UPJŠ in Košice. He also has a job consultant at ÚBEV, he is tion with experts in electronic and face-to-face form.
Brief outline of the c Hypothesis formulati	ourse: on, study of literature, preparation of materials for hypothesis testing.
diploma thesis assign requisites of final the access, including ann 15 March 2010 no. M rigorous and habilitati and habilitation thesis theses and habilitatio and control of origina Supplement no. 1 and	ture: ssional literature on a specific topic of the diploma thesis is a part of the ment. Methodological guideline 14/2009-R of 27 August 2009 on the ses, their bibliographic registration, control of originality, storage and exes; Decree of the Ministry of Education of the Slovak Republic of IŠSR-5 / 2010-071 on the model of the cover and title page of the final, tion thesis and the format of the exchange of data on the final, rigorous s; Directive no. 1/2011 on the basic requirements of final theses, rigorous n theses, their publication and making available during their preservation ality valid for Pavel Jozef Šafárik University in Košice and its components; d no. 2 to Directive no. 1/2011 Template for the creation of ZP in dot and RZP website (Central Register of Final Theses)
Course language:	
Notes:	
SK, EN	

Course assessment Total number of assessed students: 44	
abs	n
100.0	0.0
Provides:	
Date of last modification: 13.05.2022	
Approved: prof. PhDr. Ol'ga Orosová, CSc., doc. profesor, prof. RNDr. Stanislav Krajči, PhD.	. RNDr. Marcel Uhrin, PhD., univerzitný

University: P. J. Safá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/PUDU/15	Course name: Drug Addiction Prevention in Educational Practice
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14
Number of ECTS cro	edits: 4
Recommended seme	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
semester evaluation: preparation (10p) and of the evaluation - w 90p and the final grad less: FX. Detailed inf of the subject will be	ter evaluation: active participation in the training part (30p). 2nd part of the active participation in workshops (20p) 3rd part of the semester evaluation implementation (10p) of block activities (20p, minimum 11 points). 4th part ritten knowledge exam (20p, minimum 11 points). In total, students can ge de is as follows: 90 - 82: A 81 - 73: B 72 - 66: C 65 - 59: D 58 - 54: E 53 and formation in the electronic bulletin board of the course in AIS2. The teaching realized by a combined method.
and explain the deter use. Understands and non-substance addict The student is also a approaches in preven The student is able to in the field of drug u	nds principals of research data based prevention of risk behavior, can describe minants of risk behavior as well as protective and risk factors for substance adequately interprets the theory explaining the background of substance and ions. able to state and classify the types and forms of prevention, strategies and tion, can distinguish effective strategies from ineffective ones. apply the learned rules, procedures and competencies for the work of a teacher use prevention, as well as the acquired professional skills for the work of a bin coordinator at school.
prevention Prevention of substan Primary, secondary an Universal, selective a Effective substance p	ourse: gogical-psychological, medical and legal-forensic aspects of substance use nee use based on risk and resilience and tertiary prevention of substance use and indicated prevention of substance use revention strategies based on research data ementation of components of effective substance use prevention programs
Recommended litera Orosová, O. a kol. (20 internetu v školskej p	012). Základy prevencie užívania drog a problematického používania

Sloboda, Z., & Bukoski, J. (Eds.). (2006). Handbook of Drug Abuse Prevention: Theory, Science, and Practice. New York: Springer.

National and international scientific journals.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 430

А	В	С	D	Е	FX
51.16	41.16	6.98	0.7	0.0	0.0

Provides: prof. PhDr. Oľga Orosová, CSc., Mgr. Janka Liptáková, PhDr. Anna Janovská, PhD., Mgr. Zuzana Michalove

Date of last modification: 24.06.2022

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPPaPZ/VP/09	Course na	me: Educationa	ll Counselling		
	ractice course-load (h r study period:	ours):			
Number of ECT	TS credits: 2				
Recommended	semester/trimes	ter of the cours	se: 2.		
Course level: II.					
Prerequisities:					
Conditions for c	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Notes:					
Course assessme Total number of		ts: 262			
А	В	С	D	Е	FX
76.72	14.5	5.73	2.29	0.76	0.0
Provides: PhDr.	Anna Janovská,	PhD.		·	
Date of last mod	lification: 30.01	.2025			
Approved: prof. profesor, prof. R	-		e. RNDr. Marcel I	Jhrin, PhD., univ	erzitný

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPE ZSP/15	/ Course na	me: Essentials o	of Special Educat	tion	
Course type, sco Course type: La Recommended Per week: 2 Per Course method	ecture course-load (h r study period:	ours):			
Number of ECT	S credits: 2				
Recommended s	emester/trimes	ster of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcom	nes:				
Brief outline of t	the course:				
Recommended l	iterature:				
Course language	2:				
Notes:					
Course assessme Total number of		ts: 805			
A	В	С	D	E	FX
52.42	24.35	12.3	6.58	3.6	0.75
Provides: PaedD	r. Michal Novo	cký, PhD., doc. F	aedDr. Renáta C	Drosová, PhD.	
Date of last mod	ification: 14.09	0.2024			
Approved: prof. profesor, prof. RN	•		RNDr. Marcel U	Uhrin, PhD., univ	verzitný

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: 1., 3. Course level: II. Prerequisities: Conditions for course completion: Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect is biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space ar animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996.			sity in Košice			
ETO1/03 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per weck: 2/2 Per study period: 28 / 28 Course method: present Number of ECTS credits: 6 Recommended semester/trimester of the course: 1., 3. Course level: II. Prerequisities: Conditions for course completion: Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect i biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space ar animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S: An introduction to animal behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Notes: Course assessment Total number of assessed students: 1131 A B C D						
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: 1,, 3. Course level: II. Prerequisities: Conditions for course completion: Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect is biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. Th simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space ar animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Not	Course ID: ÚBE ETO1/03	V/ Course na	ame: Ethology			
Recommended semester/trimester of the course: 1., 3. Course level: II. Prerequisities: Conditions for course completion: Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect ibiological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space ar animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course assessment Total number of assessed students: 1131 A B C D E FX <td< td=""><th>Course type: Le Recommended Per week: 2 / 2</th><td>cture / Practice course-load (h Per study peri</td><td>e ours):</td><td></td><td></td><td></td></td<>	Course type: Le Recommended Per week: 2 / 2	cture / Practice course-load (h Per study peri	e ours):			
Course level: II. Prerequisities: Conditions for course completion: Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect is biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space an animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thicme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87	Number of ECTS	S credits: 6				
Prerequisities: Conditions for course completion: Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect is biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space ar animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour: Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Notes: Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	Recommended so	emester/trimes	ster of the cours	e: 1., 3.		
Conditions for course completion: Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect i biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space are animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Notes: Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	Course level: II.					
Fulfilled conditions for the exercises Successfully completed oral exam Learning outcomes: To teach the students to know and to be aware of the importance of the behavioural aspect is biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space are animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Notes: Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	Prerequisities:					
To teach the students to know and to be aware of the importance of the behavioural aspect is biological sciences Brief outline of the course: History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space ar animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Notes: Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	Fulfilled conditio	ns for the exerc	cises			
History and development of ethology. Ethological methods. The innate forms of behaviour. The simplest forms of learning – conditioning and instrumental learning. Higher form of learning. Social behaviour. Sexual behaviour. Play behaviour. Biological rhythms. Orientation in space are animal migrations. Communication systems of animals. Emotions. Aggression in animal and huma behaviour. Abnormal forms of behaviour Recommended literature: Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Notes: Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	To teach the stud	lents to know	and to be aware	of the importan	nce of the behav	ioural aspect i
Franck, D.: Verhaltensbiologie. Einfuhrung in die Ethologie. Georg Thieme-Verlag, 1993 Manning, A., Dawkins, M. S.: An introduction to animal behaviour. Cambridge University Press 1992 DRICKMER, L.C., VESSEY, S.H., MEIKLE, D. Animal Behavior: mechanisms, ecology, evolution. 4th ed. Dubuque : Wm. C. Brown Publishers, 1996. Internet Course language: Notes: Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	History and deve simplest forms o Social behaviour. animal migrations	lopment of eth f learning – co Sexual behavi s. Communicati	onditioning and our. Play behavio ion systems of an	instrumental lea our. Biological rl	rning. Higher for hythms. Orientation	orm of learning
Notes:Course assessment Total number of assessed students: 1131ABCDEFX43.3224.3122.817.871.590.09	Franck, D.: Verha Manning, A., Dav 1992 DRICKMER, L.O	lltensbiologie. 1 wkins, M. S.: A C., VESSEY, S.	An introduction to	animal behavio Animal Behavi	our. Cambridge U	niversity Press
Course assessment Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	Course language	:				
Total number of assessed students: 1131 A B C D E FX 43.32 24.31 22.81 7.87 1.59 0.09	Notes:					
43.32 24.31 22.81 7.87 1.59 0.09		nt	.ta. 1121			
	Course assessme		Its. 1131			
Provides: RNDr. Igor Majláth, PhD., RNDr. Natália Pipová, PhD.	Course assessme Total number of a	assessed studen	1	D	E	FX
	Course assessme Total number of a A	assessed studen B	С			

University: P. J. Šafá	
Faculty: Faculty of S	cience
Course ID: ÚBEV/ EB1/99	Course name: Evolutionary Biology
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): dy period: 28
Number of ECTS cr	edits: 3
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities:	
Conditions for cours In the written exam	, the student must demonstrate, in addition to knowledge in the field of
to problem-formulate studies of his field.	, knowledge of analytical and synthetic thinking when solving the answers ed questions, while using knowledge from the entire bachelor's and master's
to problem-formulate studies of his field. Learning outcomes: Graduates of the cour based on the most mo living nature at vario solve scientific, but a argue and critically ev	ed questions, while using knowledge from the entire bachelor's and master's rse will gain an overview of evolutionary theories in the past and today, and odern scientific knowledge about macro- and microevolutionary processes in us levels of investigation and knowledge, they should be able to analytically also philosophical questions in the field of evolutionary theory. He is able to valuate different views on evolution and apply his knowledge in different types y in an academic environment, but also in practice, e.g. in agriculture, ecology

Mayr, E.: Co je evoluce. Aktuální pohled na evoluční biologii. Academia Praha, 2009. Flegr, J.: Evoluční biologie. Academia Praha 2005

Kejnovský, E., Hobza, R.: Evoluční genomika. (http://www.evolucnigenomika.cz/Skripta/ Evolucni%20genomika%20skripta%202008.pdf) 2009

Futuyma, D.J.: Evolution. Sinauer Associates, Sunderland, 2005.

Briggs D., Walters S. M.: Proměnlivost a evoluce rostlin. Univerzita Palackého, Olomouc, 2001. Dobzhansky T. et al.: Evolution. San Francisco 1977.

E.J.Larson : Evolúcia. Neobyčajná história jednej vedeckej teórie. Slovart, 2006.

Course language:

Notes:

Course assessment

Total number of assessed students: 675

А	В	С	D	Е	FX
12.0	22.22	25.33	24.0	14.96	1.48

Provides: prof. RNDr. Pavol Mártonfi, PhD., prof. RNDr. Ľubomír Kováč, CSc., RNDr. Linda Petijová, PhD., Priv.-Doz. Souvik Kusari, Dr. rer. nat., univerzitný profesor

Date of last modification: 24.07.2022

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: KPE ZZP/12	/ Course na	Course name: Experiential Education				
Course type, sco Course type: L Recommended Per week: 1/2 Course method	ecture / Practice course-load (h Per study peri	e ours):				
Number of ECT	'S credits: 4					
Recommended s	semester/trimes	ster of the cours	e: 1., 3.			
Course level: II.						
Prerequisities:						
Conditions for c	ourse completi	on:				
Learning outcom	nes:					
Brief outline of	the course:					
Recommended I	iterature:					
Course language	e:					
Notes:						
Course assessme Total number of		ts: 451				
Α	В	С	D	E	FX	
41.46	38.58	14.63	4.21	0.89	0.22	
Provides: doc. P	aedDr. Renáta (Drosová, PhD., M	Igr. Beáta Sakalo	ová, PhD.	1	
Date of last mod	lification: 14.09	9.2024				
Approved: prof. profesor, prof. R			RNDr. Marcel	Uhrin, PhD., univ	verzitný	

University: P. J. Šafárik University in Košice
Faculty: Faculty of Science
Course ID: ÚINF/ FO1/15Course name: Formal languages and automata
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: 1., 3.
Course level: II.
Prerequisities:
Conditions for course completion: Test and oral examination.
Learning outcomes: To provide theoretical background for studying computer science in general, by giving the necessary knowledge in theory of automata.
 Brief outline of the course: 1: Pushdown automata: definition of a pushdown automaton, accepting by final states, accepting by empty pushdown 2: Deterministic pushdown automata: examples of application in practice 3: Context-free grammars: basic definition, leftmost derivation, derivation tree, elimination of rules of type A→epsilon and A→B, Chomsky normal form 4: Relation between context-free grammars and pushdown automata: transforming context-free grammar to a pushdown automaton, transforming pushdown automaton to a context-free grammar 5: Pumping lemma I: Statement of the lemma and its proof 6: Pumping lemma II: applications of the lemma 7: Closure properties of context-free languages 8: Closure properties of deterministic context-free languages 9: Pushdown automata producing an output: basic definitions and properties, applications in practice 10: Context-sensitive languages: context-sensitive grammar to an LBA, transforming LBA to a context-sensitive grammar 11: Closure properties of context-sensitive languages 12: Recursively enumerable languages: phrase-structure grammar, nondeterministic and deterministic Turing machine, transforming nondeterministic Turing machine to a phrase-structure grammar to a deterministic Turing machine, closure properties 13: Universal Turing machine

1. J.E. Hopcroft, R.Motwani, J.D. Ullman: Introduction to automata theory, languages, and computation, Addison-Wesley, 2001.

2. J. Shallit: A second course in formal languages and automata theory, Cambridge University press, 2009.

3. M. Sipser: Introduction to the theory of computation, Thomson Course Technology, 2006.

Course language:

Slovak or English

Notes:

Content prerequisities:

 Basic mathematical background (proof by contradicion and by mathematical induction), basic notions from the set theory (union, intersection, complement, cartesian product).
 Basic knowledge about finite state automata and regular languages.

Course assessment

Total number of assessed students: 15

А	В	С	D	Е	FX
33.33	33.33	26.67	6.67	0.0	0.0

Provides: prof. RNDr. Viliam Geffert, DrSc., RNDr. Juraj Šebej, PhD.

Date of last modification: 23.11.2021

•	árik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚINF/ ZNA1/21	Course name: Foundations of knowledge systems
Course type, scope Course type: Lectu Recommended cou Per week: 3 Per st Course method: pr	ure urse-load (hours): udy period: 42
Number of ECTS c	redits: 4
Recommended sem	ester/trimester of the course: 2.
Course level: II.	
Prerequisities:	
Conditions for cour Test of theoretical k Written and oral exa	nowledge in the middle of the semester.
-	students some advanced applications of logic, fuzzy logic and basic clustering in database and knowledge systems.
 2. closure operator, of 3. basic notions of feedback 4. basic algorithms of 5. optimal decomposition 	Ordered sets and Formal concept analysis, motivation example closure system, Galois conection and concept lattice, example uzzy logic, one-sided and fuzzy formal concept analysis of Formal concept analysis sition of formal context, optimal factors, algorithms, example ructures, bonds, direct products and selection of best bonds, relationship with
Kluwer Academic/P 2. Carpineto, C., & F Hoboken, NJ: John 3. Ganter, B., & Wil Springer. 4. Guniš, J., Šnajder Analysis of Students Education. doi:10.11 5. Krídlo, O., Anton formal contexts for the	002). Fuzzy Relational Systems: Foundations and Principles. New York: lenum Publishers. Romano, G. (2004). Concept Data Analysis: Theory and Applications.

6. Krídlo, O., López-Rodríguez, D., Antoni, Ľ., Eliaš, P., Krajči, S., & Ojeda-Aciego, M. (2023). Connecting concept lattices with bonds induced by external information. Information Sciences, 648, 119498. ISSN 0020-0255. https://doi.org/10.1016/j.ins.2023.119498.

7. Pitka, T., Bucko, Ľ., Šnajder, L., et al. (2024). Time analysis of online consumer behavior by decision trees, GUHA association rules, and formal concept analysis. Journal of Marketing Analytics. https://doi.org/10.1057/s41270-023-00274-y.

Course language:

Slovak or English

Notes:

content prerequisites: basics of logic, introduction to computer science

Course assessment

Total number of assessed students: 101

А	В	С	D	Е	FX
52.48	5.94	18.81	7.92	11.88	2.97

Provides: doc. RNDr. Ondrej Krídlo, PhD.

Date of last modification: 03.11.2024

Faculty: Faculty					
i acuity • 1 acuity	y of Science				
Course ID: ÚBI VMK/22	EV/ Course na	me: General Mic	crobiology		
Course type: I Recommended	ope and the met Lecture / Practice I course-load (h 2 Per study perio d: present	ours):			
Number of EC	FS credits: 4				
Recommended	semester/trimes	ster of the course	e: 3.		
Course level: II	•				
Prerequisities:					
Conditions for of Attendance of examination	1		itten examinati	ons during seme	ester, final ora
their cytology, p	ohysiology, genet		sification, and i	and eukaryotic m mportance . Infor	-
	yotic and eukaryo	otic microorganism f microorganisms		gy, physiology, ge l environment.	netics, ecology
Viruses, prokary	yotic and eukaryo The importance of				netics, ecology
Viruses, prokary classification. T	yotic and eukaryo he importance of literature:				netics, ecology
Viruses, prokary classification. T Recommended	yotic and eukaryo he importance of literature:				netics, ecology
Viruses, prokary classification. T Recommended Course languag Notes: Course assessm	yotic and eukaryo he importance of literature: ge:	f microorganisms			netics, ecology
Viruses, prokary classification. T Recommended Course languag Notes: Course assessm	yotic and eukaryo 'he importance of literature: ge: ment	f microorganisms			netics, ecology FX
Viruses, prokary classification. T Recommended Course languag Notes: Course assessm Total number of	yotic and eukaryo 'he importance of literature: ge: ent f assessed studen	f microorganisms ts: 263	for humans and	l environment.	
Viruses, prokary classification. T Recommended Course languag Notes: Course assessm Total number of A 63.12 Provides: doc. F	yotic and eukaryo The importance of literature: ge: Tent f assessed studen B 21.29 RNDr. Peter Prist	f microorganisms ts: 263 C 11.03	for humans and D 3.8	environment.	FX 0.0
Viruses, prokary classification. T Recommended Course languag Notes: Course assessm Total number of A 63.12 Provides: doc. F RNDr. Ivana Sle	yotic and eukaryo The importance of literature: ge: Tent f assessed studen B 21.29 RNDr. Peter Prist	f microorganisms ts: 263 C 11.03 taš, CSc., univerz	for humans and D 3.8	E 0.76	FX 0.0

University: P. J. Š	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚGE GEOB/22	Course na	Course name: Geology			
Course type, scop Course type: Le Recommended Per week: 3 / 2 1 Course method:	ecture / Practice course-load (h Per study peri	e ours):			
Number of ECTS	S credits: 6				
Recommended so	emester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom	nes:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	:				
Notes:					
Course assessme Total number of a		ts: 329			
A	В	С	D	Е	FX
26.75	34.35	27.05	9.12	2.74	0.0
Provides: doc. In	g. Katarína Bói	nová, PhD., Mgr.	Anton Uhrin		
Date of last modi	ification: 30.10).2021			
Approved: prof. profesor, prof. RN	-		RNDr. Marcel U	Uhrin, PhD., univ	erzitný

University: P. J					
Faculty: Facult	y of Science				
Course ID: ÚE DGO/17	ÚBEV/ Course name: Geology and nature protection education				
Course type: Recommende	d course-load (l er study period	nours):			
Number of EC	TS credits: 2				
Recommended	semester/trime	ster of the cours	e: 3.		
Course level: I	Ι.				
Prerequisities:	ÚBEV/DIB1/03				
Active particip				tation of a self- are evaluated.	planned school
experiments an	the course will ad modeling of g	geological proces	ses and phenom	the implementa ena. At the same	time, they will
Graduates of experiments ar learn the proceed need for nature	the course will ad modeling of g dures of student n protection using be able to choose	geological proces research focused of digital technolog	ses and phenom on the issue of en gies.	1	time, they will ponents and the
Graduates of experiments ar learn the proceed need for nature Graduates will curriculum and methods Brief outline of Components of education in bit the inanimate nature and ecolo topics for stud	the course will ad modeling of g dures of student n protection using be able to choose f the course: f the environme tology as part of logy in biology to ents' work - Mo	eological proces research focused of digital technolog e a suitable form ent in SEP - Spe a cross-cutting t extbooks - Motiva deling of phenor	ses and phenom on the issue of en gies. for the interpreta ecifics of didact heme - Elaborat ation of students nena and proces	ena. At the same	Environmental en
Graduates of experiments ar learn the proceed need for nature Graduates will curriculum and methods Brief outline of Components of education in bit the inanimate nature and ecol topics for stud involvement pro-	the course will ad modeling of g dures of student n protection using be able to choose f the course: f the environme iology as part of logy in biology to ents' work - Mo apils in nature pr	eological proces research focused of digital technolog e a suitable form ent in SEP - Spe a cross-cutting t extbooks - Motiva deling of phenor	ses and phenom on the issue of en gies. for the interpreta ecifics of didact heme - Elaborat ation of students nena and proces	ena. At the same avironmental com ation of geologica ics of geology - ion of thematic u to protect nature sses in the enviro	Environmental en
Graduates of experiments ar learn the proceed need for nature Graduates will curriculum and methods Brief outline of Components of education in bit the inanimate nature and ecol topics for stud involvement pro- excursions Recommended	the course will ad modeling of g dures of student n protection using be able to choose f the course: f the environme iology as part of logy in biology to ents' work - Mo apils in nature pr l literature:	eological proces research focused of digital technolog e a suitable form ent in SEP - Spe a cross-cutting t extbooks - Motiva deling of phenor	ses and phenom on the issue of en gies. for the interpreta ecifics of didact heme - Elaborat ation of students nena and proces	ena. At the same avironmental com ation of geologica ics of geology - ion of thematic u to protect nature sses in the enviro	Environmental en
Graduates of experiments ar learn the procee- need for nature Graduates will curriculum and methods Brief outline of Components o education in bi- the inanimate nature and ecol topics for stud involvement pro- excursions Recommended Course langua	the course will ad modeling of g dures of student n protection using be able to choose f the course: f the environme iology as part of logy in biology to ents' work - Mo apils in nature pr l literature:	eological proces research focused of digital technolog e a suitable form ent in SEP - Spe a cross-cutting t extbooks - Motiva deling of phenor	ses and phenom on the issue of en gies. for the interpreta ecifics of didact heme - Elaborat ation of students nena and proces	ena. At the same avironmental com ation of geologica ics of geology - ion of thematic u to protect nature sses in the enviro	Environmental en
Graduates of experiments ar learn the proceed need for nature Graduates will curriculum and methods Brief outline of Components of education in bit the inanimate nature and ecol topics for stud involvement pre excursions Recommended Course langua Notes: Course assessme	the course will ad modeling of g dures of student n protection using be able to choose f the course: f the environme iology as part of logy in biology to ents' work - Mo upils in nature pr l literature: ge:	eological proces research focused of digital technolog e a suitable form ent in SEP - Spe a cross-cutting t extbooks - Motiva deling of phenor rotection - Pupils	ses and phenom on the issue of en gies. for the interpreta ecifics of didact heme - Elaborat ation of students nena and proces	ena. At the same avironmental com ation of geologica ics of geology - ion of thematic u to protect nature sses in the enviro	Environmental en
Graduates of experiments ar learn the proceed need for nature Graduates will curriculum and methods Brief outline of Components of education in bit the inanimate nature and ecol topics for stud involvement pre excursions Recommended Course langua Notes: Course assessme	the course will ad modeling of g dures of student n protection using be able to choose f the course: f the environme fology as part of logy in biology to ents' work - Mo upils in nature pr l literature: ge: nent	eological proces research focused of digital technolog e a suitable form ent in SEP - Spe a cross-cutting t extbooks - Motiva deling of phenor rotection - Pupils	ses and phenom on the issue of en gies. for the interpreta ecifics of didact heme - Elaborat ation of students nena and proces	ena. At the same avironmental com ation of geologica ics of geology - ion of thematic u to protect nature sses in the enviro	Environmental en

Date of last modification: 05.04.2023

University: P. J. Sa	ıfárik University in Košice		
Faculty: Faculty of	f Science		
Course ID: KPPaPZ/PsZ/15Course name: Health Psychology			
Course type, scope Course type: Prace Recommended co Per week: 2 Per s Course method: 1	ctice ourse-load (hours): study period: 28		
Number of ECTS			
Recommended ser	nester/trimester of the course: 1., 3.		
Course level: II.			
Prerequisities:			
Preparation and pro- agreed timeframe (Final paper and its Final Grading Scal A: $100 - 90\%$ B: $89 - 80\%$ C: $79 - 70\%$ D: $69 - 60\%$ E: $59 - 50\%$	tions: n in seminars (25%) – a maximum of 2 absences is allowed. esentation of a seminar paper on a topic assigned during the seminar, within the (25%). ongoing presentation (50%).		

Knowledge: Students will gain basic knowledge of health psychology, including factors that promote health and those contributing to the development of illnesses. They will learn to formulate the basic theses of health psychology, explain its concepts, and understand the principles of the biopsycho-social model of health. They will expand their understanding of the applications of health psychology in working with individuals and groups, including in school settings.

Skills: Students will develop the ability to prepare a basic preventive program focused on promoting a healthy lifestyle and managing stress. They will learn to implement acquired knowledge in practice, including working with children and youth in school environments.

Competencies: Graduates will be able to effectively participate in the creation and implementation of preventive programs that support health and mental well-being. They will know how to apply psychological knowledge when working with students in school settings, contributing to the improvement of both mental and physical health of individuals and society.

Brief outline of the course:

- 1. Health psychology. Definition of health. Bio-psycho-social model of health.
- 2. Mental health and quality of life, well being.
- 3. Physiological aspects of mental health, lifestyle

- 4. Stress. Coping, resilience.
- 5. Psychosomatic diseases, placebo.
- 6. Social support and its importance for health.
- 7. Burnout syndrome.
- 8. The meaning of life, faith.
- 9. Health-related behavior and prevention. Risky behavior, excessive use of the Internet and screens.
- 10. Socio-economic inequalities in health. Unemployment and health.

Recommended literature:

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

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

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

Sarafino, E. P. (2007). Health psychology: Biopsychosocial interactions. John Wiley & Sons. Taylor, E. (2006). Health psychology. Singapore: McGraw-Hill.

Vollrath, M. E. (2006). Handbook of personality and health. Chichester: John Wiley & Sons.

Marks, D. F., Murray, M., Estacio, E. V., & others. (2024). Health psychology: Theory, research and practice (7th ed.). SAGE Publications Ltd

Mareš, J., & Kebza, V. (2024). Psychologie zdraví. Grada.

Course language:

Notes:

Course assessment

Total number of assessed students: 149

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

Provides: doc. Mgr. Gabriel Baník, PhD.

Date of last modification: 04.02.2025

University: P. J.	Šafárik Universi	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚBE SBD/08	EV/ Course name: History of Biology Seminar				
	ractice course-load (he r study period:	ours):			
Number of ECT	S credits: 3				
Recommended s	semester/trimes	ter of the cours	e: 1.		
Course level: I.,	II.				
Prerequisities:					
Conditions for c	course completion	on:			
Learning outcor Introduction to h		e, especially biol	ogy		
Brief outline of Introduction to h ages to present.		(and related sc	ientific areas) fro	om ancient times,	through middle
Recommended Magner, L.N. (2		f the life science	es. Marcel Dekke	er, Inc.	
Course languag	e:				
Notes:					
Course assessme Total number of		ts: 508			
A	В	С	D	Е	FX
97.64	2.17	0.2	0.0	0.0	0.0
Provides: prof. I	RNDr. Martin Ba	ičkor, DrSc.	1	L	
Date of last mod	lification: 03.05	.2015			
Approved: prof. profesor, prof. R	•		. RNDr. Marcel	Uhrin, PhD., univ	verzitný

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	y of Science					
Course ID: ÚB IMU1/03	3EV/ Course name: Immunology					
Course type: I Recommended	l course-load (he er study period:	ours):				
Number of EC	FS credits: 3					
Recommended	semester/trimes	ter of the cours	e: 1.			
Course level: II						
Prerequisities:						
Conditions for Recognition. Oral examination	course completi	on:				
the role and in lessons is the pr	portance of importance of importance of the	nunology in var e organization ar	rious human dis	nmunology as we seases. The aim ne immune systen during the induc	of Immunology n, as well as the	
Responses of In Recognition by Clinical immun	ogy: Lymphatic nate Immunity, T B-cell and T-cell	he Adaptive Imn Receptors, Anti and other Hypers	nune Response, . gen Presentatior sensitivities, Au	Immune Systen Antigens and Anti to T-lymphocyte toimmunity and	ibodies, Antigen es, Complement,	
Murphy, K. (20		nmunobiology. 8	8th ed. Garland		d Science, 2004	
Course languag	ge:					
Notes:						
Course assessm Total number of	ent fassessed studen	ts: 1087				
А	В	С	D	E	FX	
40.02	23.83	23.64	6.99	1.93	3.59	
Provides: RND	r. Vlasta Demečk	ová, PhD., unive	erzitná docentka	L		
Date of last mo		2022		=		

Faculty: Facult	ty of Science				
Course ID: ÚE IB/22	BEV/ Course n	ame: Informatic	es in Biology		
Course type: Recommende	ed course-load (h Per study period	nours):			
Number of EC	TS credits: 2				
Recommended	l semester/trime	ster of the cour	rse: 3.		
Course level: I	I.				
Prerequisities:					
			ach of the three	thematic units:	image analysis
e		2	the optional cours	se Informatics in I	Natural Sciences
of particles (eg Modeling (coa impact of vac relationship)	blood cells), me ching modeling a cination, cell cu abases (working	asurement of ler nd working with llture growth, tu	ngths and areas, p ready-made Pyth umor growth, for	al objects, detection processing of acquinon programs: spr rest development nal migration more	uired data) ead of infection t, predator prey
,	Mišianiková, A. Centrum vedeck -72-4	5	-	rodných vedách a atislava 2020, ISF	,
Course langua	ge:				
Notes:					
Course assess Total number o	nent of assessed studer	nts: 18			
А	В	С	D	E	FX
100.0	+	1			·
100.0	0.0	0.0	0.0	0.0	0.0

University: P. J.	Šafárik Universi	ty in Košice				
Faculty: Faculty	of Science					
Course ID: ÚIN TIK1/22	INF/ Course name: Information theory, encoding					
Course type, sco Course type: La Recommended Per week: 2 / 1 Course method	ecture / Practice course-load (ho Per study perio	ours):				
Number of ECT	S credits: 3					
Recommended s	emester/trimes	ter of the cours	se: 1.			
Course level: II.						
Prerequisities:						
Conditions for c Satisfiable know	-					
Learning outcom To understand pr		ess coding and o	entropy and their	r mutual relations	hip.	
 Word and lang Decodable cool Prefix-free cool Krafto-McMill 57. Entropy 89. Price of cool Shannon's the Fano's code so Huffman's op 	les des lan inequality le sequence eorem sequence	ence				
Recommended l	iterature: n, G. Harris, P. Jo RC Pr., 1998. ódovaní a teorie	ohnson: Introdu informace, Vyd	avatelství ČVU	tion Theory and I F, Praha 1994	Data	
Course language Slovak						
Notes:						
Course assessme Total number of		s: 136				
A	В	С	D	E	FX	
59.56	19.85	11.76	3.68	0.0	5.15	
Provides: prof. R	NDr. Stanislav	Krajči, PhD.	•	·		

Date of last modification: 08.02.2022

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: KPPaPZ/UPN/17	Course name: Introduction into Psychology of Religion			
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: 2.			
Course level: II.				
Prerequisities:				
distance format. Up-t	e completion: sed on the interim evaluation. The subject will be taught in both present and o-date information concerning the subject for the given academic year can be ic board of the subject in the Academic Information System (AIS) of the UPJŠ.			
of research and applie and evaluate this kno orientation in the field	ire a basic overview of the origin and current state of knowledge in the field cation the psychology of religion. He/she will be able to described, explaine, wlege. The student will be able to apply the acquired knowledge in the basic d, and develop critical thinking and will be able to apply and integrate already from other (psychological) distributions			
 Psychological pers Psychology of relig Basic approaches t Different types of t Psychological view Spirituality versus Coping in the cont 	ogy of religion in national and world context pective on religion and religious experience gion in an interdisciplinary context to psychological interpretation and selected views religious experience v of religion from a biodromal perspective religiosity in a postmodern society			
Eliade, M. (1995). De Freud, S. (1999). Nut Praha: Psychoanalytic Fromm, E. (2003). Ps Erikson, E. (1996). M Psychoanalytické nak James, W. (1930). Dr	osvátné a profánní. Praha: Česká křesťanská akademie. ějiny náboženského myšlení 1. Praha: Oikoymenh. kavá jednání a náboženské úkony. In Freud, S., Spisy z let 1906–1909. cké nakladatelství. sychoanalýza a náboženství. Praha: Aurora íladý muž Luther: studie psychoanalytická a historická. Praha:			

Pargament, K. (Říčan, P. (2007 Říčan P. (2002)	(2000). Pastoráln (1997), Psycholo). Psychologie ná , Psychologie nál 2001) Súčasná ps	gy of religion an boženství a spiri boženství, Portál	d coping, tuality. Praha: Po , Praha,	ortál.	
Course languag	ge:				
Notes:					
Course assessn Total number o	nent f assessed studen	.ts: 87			
А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: Mgr.	Jozef Benka, Phl	D.	•	·	
Date of last mo	dification: 21.02	2.2025			
		/ 00 1			•. •

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ Course name: Introduction to Ecology VEK1/03					
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	e rse-load (hours): dy period: 42 esent				
Number of ECTS cr					
Recommended seme	ster/trimester of the course: 1.				
Course level: I., II.					
Prerequisities:					
Conditions for cours oral examination	e completion:				

Learning outcomes:

Fundamental parameters and relations in ecological science. Abiotic, biotic and anthropogenic factors in air, aquatic and terrestrial/soil environment. Autecology, Demecology and Synecology. Ecosystem and Nature Protection.

Brief outline of the course:

Ecological factors and relations in environment (air, water, soil); influence of ecological factors on individuals (morphological adaptations, behavioral reactions); populations and communities; ecosystems (impact assessment); conservation and biodiversity.

1. Basic ecological terms. 2. Characterisation of the basic ecological factors (light, temperature, water). 3. Air environment (composition of atmosphere, physical and chemical factors, air pollutants, organisms and their adaptations in air environment). 4. Aquatic environment (water properties physical and chemical factors, gases in water, water pollutants, eutrophication and saprobity, aquatic organisms). 5. Soil environment (physical and chemical properties, soil profile, humus layer, soil pollutants, soil organisms and their adaptations). 6. Characterization of Populations, structure and ppuatin dynamics. 7.Biocenoses and biotops. 8. Qualitative and quantitative community characteristics. 9. Ecosystems. 10. Biomes and their characteristics, 11. Bidiversity-factors affecting biodiversity, Species-Area relationships. 12. Biodiversity protection.13. Biospheric cycles.

Recommended literature:

Begon, M., Harper, J. L., Townsend, C. L.: Ecology: individuals, populations, and communities. Blackwell Sci. Publ., 1990

Course language:

Notes:

Course assessm Total number of	nent of assessed studen	ts: 1871					
А	В	С	D	Е	FX		
21.65	17.42	17.42 24.85 17.1 11.65 7.32					
Provides: RNE	Provides: RNDr. Natália Raschmanová, PhD., univerzitná docentka						
Date of last modification: 16.03.2023							
	f. PhDr. Ol'ga Or RNDr. Stanislav H		RNDr. Marcel U	Jhrin, PhD., univ	erzitný		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID:Course name: Introduction to Research Methodoly in Education and PsychologyKPPaPZ/ZMPPV/15Psychology			
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28		
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the course: 2.		

Course level: II.

Prerequisities: KPE/PDU/15 and KPPaPZ/PPgU/15

Conditions for course completion:

- active participation in seminars, presentation of assignments in groups, final exam

Learning outcomes:

The graduate of the course will gain information about the research methodology, will understand the basic methods of pedagogical and psychological research that can be used in the practice of the teacher. Within the seminars, students will develop professional skills through their own demonstration of a specific research method. The graduate of the course will be able to carry out simple scientific research, present the results of research and read the results of the latest research in the field of pedagogy and psychology.

Brief outline of the course:

Research in pedagogy and psychology. Scientific research, scientific thinking. Parts of a research project. Research planning. Topic selection, research problem formulation. Types of research plans. Hypothesis, variables, operationalization. Ethical issues of scientific research. Experiment (experiment problems, control of variables in the experiment). Experimental plans, quasi-experiment. Reliability and validity of research. Research sample, methods of sample selection. Data collection techniques - questionnaire, interview, sociometry, semantic differential, observation, tests. Introduction to qualitative methodology. Possibilities of quantitative data processing. How to write a scientific article, presentation, poster, qualification work. Interpretation of findings, integration of findings into context.

Recommended literature:

Bačíková, M., Janovská, A., Orosová, O. Základy metodológie pedagogicko-psychologického výskumu. 2.doplnené vydanie. Šafárik Press, 2019. dostupné online: https://unibook.upjs.sk/img/ cms/2019/FF/zaklady-metodologie-ped-psych-vyskumu-2-vyd-web.pdf

Gavora, P.: Úvod do pedagogického výskumu. Bratislava, UK 1999.

Švec, Š. a kol.: Metodológia vied o výchove. Bratislava, Iris 1998. Turek, I.: K základom pedagogického výskumu. Prešov, KPÚ 1991.

Ferjenčík, J.: Úvod do metodológie psychologického výskumu. Praha, Portál 2000. http://www.e-metodologia.fedu.uniba.sk/

Course language:

Notes:					
Course assessm Total number o	nent f assessed studen	ts: 825			
А	В	С	D	Е	FX
19.27	28.48	24.61	19.03	8.48	0.12
Provides: doc.]	Mgr. Mária Bačíl	ková, PhD., PhDi	r. Anna Janovská	, PhD.	•
Date of last mo	dification: 24.06	5.2022			
•••	f. PhDr. Ol'ga Oro NDr. Stanislav F		. RNDr. Marcel U	Jhrin, PhD., univ	verzitný

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚIN UGR1/15	F/ Course name: Introduction to computer graphics					
Recommended	ecture / Practice course-load (h Per study peri	ours):				
Number of ECT	S credits: 5					
Recommended	semester/trimes	ster of the cours	e: 1., 3.			
Course level: I.,	II.					
Prerequisities:						
Conditions for a	course completi	on:				
Learning outcom To provide the sigraphics.		owledge of grapl	nics algorithms	and basic princip	oles of computer	
spline forms, Bé perspective and	zier curves, B-s parallel projec niques, photore	plines, surfaces. I ptions. Visible-su alism, textures,	Homogenous co rface determin	nterpolations and bordinates, affine ation, illumination adiosity. Object	transformations, on and shading.	
Practice, Addisc	an DAM, A., FE on-Wesley, 1991	EINER, S., HUGI c modeling, 2.ed	· •	iter Graphics: Prin	nciples and	
Course languag	e:					
Notes:						
Course assessm Total number of	ent assessed studen	ts: 326				
А	В	С	D	E	FX	
12.58	12.58 10.12 13.8 23.62 32.21 7.67					
Provides: RNDr	. Rastislav Krivo	oš-Belluš, PhD., o	doc. RNDr. Joz	ef Jirásek, PhD.		
Date of last mod	dification: 08.01	.2022				
Approved: prof. prof. R	-		RNDr. Marcel	Uhrin, PhD., univ	verzitný	

Faculty: Faculty of S	cience
Course ID: ÚBEV/ BIL/19	Course name: Lichen Biology
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	redits: 4
Recommended seme	ester/trimester of the course: 3.
Course level: II.	
Prerequisities:	
3. show and demonst4. be able to assemb metabolites)	
of lower plants - lic specifically lichenism lichen from other lo secondary metabolite of the practical part, spot-test, TLC, HPLC	mpleting the subject, the student should be able to use the key for identification hens, understand and better understand the meaning of symbioses and thus n, understand the meaning of photobiont and mycobiont, be able to distinguish wer plants in nature. The student should understand the significance of the es of lichens, how they are formed and how they are used in practice. As part methods for the isolation and identification of secondary metabolites such as C should be mastered. These methods are connected with basic knowledge of lculations, dilutions, preparation of solutions.

- 1. introduction to the study of lichenology and concepts
- 2. history from antiquity to the present
- 3. Symbiosis and lichenism
- 4. the role of photobiont and mycobiont in lichenism
- 5. Lichen thallus, types and subtypes
- 6. reproduction and reproduction
- 7. secondary metabolism of lichens and biosynthetic pathways
- 8. biological and ecological role of lichens and their secondary metabolites
- 9. extraction of secondary metabolites of lichens

10. Methods for identification and separation of secondary metabolites: TLC (thin layer chromatography), column chromatography

- 11. Methods for identification: HPLC (high-performance liquid chromatography)
- 12. Methods for identification: NMR (nuclear magnetic resonance)

13. presentation	of results from	the practical part			
Recommended recommended li Purvis: Lichens Ahmadjian The Nash: Lichen B Ranković: Liche	terature: (2000) lichens (1973)	tabolites (2019)			
Course languag slovak, english	e:				
Notes:					
Course assessm Total number of	ent assessed studen	ts: 21			
А	В	С	D	Е	FX
95.24	0.0	4.76	0.0	0.0	0.0
Provides: doc. F	RNDr. Michal Go	oga, PhD., prof. F	NDr. Martin B	ačkor, DrSc.	1
Date of last mo	dification: 31.07	2.2022			
Approved: prof profesor, prof. R	•		RNDr. Marcel	Uhrin, PhD., univ	verzitný

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ LOP1/15	Course name: Logic programming
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 5
Recommended seme	ester/trimester of the course: 2., 4.
Course level: I., II.	
Prerequisities:	
	se completion: participation in exercises and homework, test of theoretical knowledge during and oral exam together with assessment from exercises.
	arative programming (as complementary method to procedural programming) fimplementations of logic programming languages.
Brief outline of the c 1. Introduction to log 2. theory, models, He 3. SLD resolution 4. Basics of Prolog la 5. Prologue in examp 6. Lists 7., 8., 9. Data analysi 10., 11., 12. Graph th	gic erbrand model anguage bles is in Prolog
Wesley, 1990. ISBN NILSON U., MALU	og. Programming for Artificial Intelligence. 2 ed. Wokingham: Addison- 0-201-41606-9. SINSKI J.: Logic, Programming and Prolog, John Wiley & Sons Ltd. 1995 IG Sh.H., WOLF R.: Foundations of Inductive Logic Programming,
Course language: Slovak or English	
Notes: Prerequisites: none	

Course assessm Total number o	nent f assessed studen	ts: 339					
А	В	С	D	Е	FX		
24.48	13.27	13.27 16.52 22.42 21.83 1.47					
Provides: doc.	Provides: doc. RNDr. Ondrej Krídlo, PhD.						
Date of last modification: 23.11.2021							
	f. PhDr. Ol'ga Oro RNDr. Stanislav F		. RNDr. Marcel U	Jhrin, PhD., univ	erzitný		

	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ STU1/16	Course name: Machine learning
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of ECTS cr	edits: 5
Recommended seme	ester/trimester of the course: 2.
Course level: II.	
Prerequisities:	
practical tasks. Succe learning, classification	Se completion: project focused on the application of machine solution methods in solving essful completion of two written tests based on machine learning, probabilistic on tasks. Successful completion of the written and oral part of the exam based probabilistic learning, classification tasks.
will gain the ability	on is an understanding of the basic principles of machine learning. The student to analyze data using selected methods of machine learning and artificial rk with a selected tool for modeling neural networks.
	ns, concepts, hypotheses. Training and learning, learning by construction and
representation.	and their representation. Learning algorithms for monocells. Hypothesis space
and credibility.	ing. An estimate of the number of examples needed to achieve some accuracy
5. Relationships betw the least squares met	
Classification.	generalization, nonlinear responses from a linear model, data validation.
 VC (Vapnik - Cerv Bayesian approach 	sing probability theory and maximum confidence. vonenkis) dimension of its relation to perceptrons. to learning. SVM.
 10. Clustering. 11. Hidden Markov r 	nodels.
Recommended litera 1. ANTHONY, Mart University Press, 199	ature: in a Norman BIGGS. Computational Learning Theory, Cambridge

3. WATT, Jeremy, Reza BORHANI a Aggelos K. KATSAGGELOS. Machine learning refined: foundations, algorithms, and applications. Cambridge: Cambridge University Press, 2016. ISBN 978-1-107-12352-6.

Course language:

Slovak language or English language

Notes:

Course assessment

Total number of assessed students: 77

А	В	С	D	Е	FX
38.96	16.88	25.97	11.69	6.49	0.0

Provides: doc. RNDr. Ľubomír Antoni, PhD., doc. RNDr. Gabriela Andrejková, CSc., RNDr. Zoltán Szoplák, RNDr. Šimon Horvát, PhD.

Date of last modification: 31.03.2022

University: P. J.	Šafárik Universit	y in Košice				
Faculty: Faculty	of Science					
Course ID: ÚIN MLO/22	IF/ Course name: Mathematical logic					
	ecture / Practice course-load (ho Per study perio	urs):				
Number of ECT	S credits: 5					
Recommended s	emester/trimest	er of the cours	se: 1.			
Course level: II.						
Prerequisities:						
Conditions for c Knowledge of st	ourse completio udied notions wi					
Learning outcor Understanding o	nes: f basic concepts	of mathematica	l logic.			
Brief outline of 1 12. Boolean al 34. Filters and 56. Rasiowa-S 7. Safe substituti 8. Lindenbaum- 911. Syntactic 12. Completenes	gebra ultrafilters ikorski's theorem on Farski's algebra al interpretation	1				
2. Goldstern M.,	s://ics.upjs.sk/~k	completeness 1	cba/ucebneTexty/ Phenomenon, A N 95	0 1		
Course languag Slovak	2:					
Notes:						
Course assessme Total number of	ent assessed students	s: 21				
A	В	С	D	Е	FX	
38.1	23.81	9.52	14.29	9.52	4.76	
Provides: prof. F	NDr. Stanislav k	Krajči, PhD.		I		
Date of last mod	ification: 12.11.	2021				

Faculty: Faculty of S	rik University in Košice
Course ID: ÚFV/ MDT/19	Course name: Modern Didactical Technology
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: 2.
Course level: II.	
Prerequisities:	
 Active participati participation. Practical ongoing a 	based on ongoing assessment: on at the seminars (in the contact or online form) with minimum 80% assignments (10) and their defense. At least 50% must be obtained from each d according to assessment criteria.
recognize current avto use all types of ac	om subject will be able: vailable digital tools and their parameters for educational activities, ctual digital tools in education of science or humanities, e educational activities by using the modern technologies.
 01. Modern hybrid cl 02. Digital learning s 03. Cloud repositorie 04. Cloud editors for 05. Digital text (scan, 06. Digital image and 07. Interactive E-voti 08. Digital collaborat 09. Virtual and digita 10. Education video (11. Smartphone and t 	als and didactic principles assroom in 21st century
2. Redecker, C., & P	nture: odern didactical technics in teacher practice (in Slovak), Košice: Elfa, 2010 unie, Y. (2017). European Framework for the Digital Competence of Edu. Luxembourg: Publications Office of the European Union.

3. C. R. Tucker, T. Wycoff, J. T. Green, Blended Learning in Action: A Practical Guide Toward Sustainable Change. Thousand Oaks: Corwin Press, 2016.

4. D. Bannister, Guidelines on Exploring and Adapting: LEARNING SPACES IN SCHOOLS. Brussels: European Schoolnet, 2017.

5. current information from web sites related to didactical technologies,

catalogues of teaching tools,

current articles about modern trends in science and humanities education.

Course language:

Slovak, English

Notes:

Course assessment

Total number of assessed students: 121

А	В	С	D	Е	FX
56.2	27.27	12.4	2.48	1.65	0.0

Provides: doc. RNDr. Jozef Hanč, PhD.

Date of last modification: 07.07.2022

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPE PDK/17	Course na	Course name: Pedagogical Communication			
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ractice course-load (h r study period:	ours):			
Number of ECT	'S credits: 2				
Recommended s	semester/trimes	ster of the cours	se: 1.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcom	nes:				
Brief outline of	the course:				
Recommended I	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 217			
Α	В	С	D	E	FX
77.42	20.28	2.3	0.0	0.0	0.0
Provides: Mgr. H	Beáta Sakalová,	PhD., Mgr. Kata	rína Petríková, P	hD.	
Date of last mod	lification: 14.09	0.2024			
Approved: prof. profesor, prof. R	-		. RNDr. Marcel U	Uhrin, PhD., univ	verzitný

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPE PDD/17	Course na	Course name: Pedagogical Diagnostics			
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ractice course-load (h r study period:	ours):			
Number of ECT	S credits: 2				
Recommended s	semester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcor	nes:				
Brief outline of	the course:				
Recommended I	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 113			
Α	В	С	D	E	FX
85.84	10.62	3.54	0.0	0.0	0.0
Provides: PaedD	r. Michal Novo	cký, PhD., Mgr.	Beáta Sakalová,	PhD.	
Date of last mod	lification: 12.03	3.2024			
Approved: prof. profesor, prof. R	-		RNDr. Marcel U	Uhrin, PhD., univ	verzitný

i acarej i acarej or o	University: P. J. Šafárik University in Košice Faculty: Faculty of Science					
Course ID: KPE/ Course name: Pedagogy						
PD/22	course name. I cougogy					
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: 2					
Recommended seme	ster/trimester of the course:					
Course level: II.						
Prerequisities: KPE/	PDU/15					
Conditions for cours Obtaining the require	e completion: ad number of credits in the prescribed composition by the study plan.					
Learning outcomes: The student is able to graduate.	demonstrate the acquired competencies in accordance with the profile of the					
 2. Education, pages a 3. Factors of educat competencies. 4. School education, 5. Educational goals, 6. Methods of educat 7. Pedagogical princi 8. School system of t 9. Didactics, basic qu 10. Objectives of the 11. Content of educat 	taxonomy, requirements, classification of educational goals. ion. ples.					

Dytrtová, R., Krhutová, M. Učitel. Příprava na profesi. Praha: Grada, 2009. Kalhous, Z. – Obst, O. 2002. Školní didaktika. Praha: Portál, 2002. Petlák, E.: Kapitoly zo súčasnej didaktiky. Bratislava: IRIS, 2005. Prucha, J.: Moderní pedagogika. Praha: Portál, 2012. Turek, I.: Didaktika. Bratislava: Wolters Kluwer, 2014. Vališová, A., Kasíková, H.: Pedagogika pro učitele. Praha: Grada, 2010. Zormanová, L.: Obecná didaktika. Praha: Grada, 2014.

Course language:

Notes:

Course assessment

Total number of assessed students: 25

А	В	С	D	Е	FX
24.0	44.0	16.0	12.0	4.0	0.0

Provides:

Date of last modification: 12.03.2024

University: P. J. Šat	fárik University in Košice		
Faculty: Faculty of	Science		
Course ID: KPE/ PPD/22	Course name: Pedagogy and Psychology		
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (hours): ıdy period:		
Number of ECTS of	credits: 2		
Recommended sem	nester/trimester of the course:		

Course level: II.

Prerequisities: KPE/PDU/15 and KPPaPZ/PPgU/15

Conditions for course completion:

Obtaining the required number of credits in the prescribed composition by the study plan.

Learning outcomes:

The student is able to demonstrate the acquired competencies in accordance with the profile of the graduate.

Brief outline of the course:

Pedagogy: 1. Pedagogy, basic pedagogical categories, system of pedagogical scientific disciplines. 2. Education, pages and functions of education, educational process, self-education.3. Factors of education, educated individual, pedagogue, pedagogical profession, professional competencies.4. School education, family education. 5. Educational goals, taxonomy, requirements, classification of educational goals.6. Methods of education. 7. Pedagogical principles. 8. School system of the Slovak Republic. 9. Didactics, basic questions of didactics, current starting points of didactics. 10. Objectives of the teaching process, the teacher's work with the objectives of teaching.11. Content of education, basic curriculum, extension curriculum, elements and components of curriculum. 12. Assessment in school education, types, functions and criteria of assessment.13. Pedagogical control, methods and forms of pedagogical control.14. Teacher's work planning, written preparation of the teacher for teaching.15. Teaching process, stages of the teaching process and their didactic functions.16. Organizational forms of teaching, lesson, stages, types of lessons.17. Teaching methods, classification, functions, selection of teaching methods. 18. Didactic principles of the teaching process. 19. Basic pedagogical documents, textbook, functions and structural components of the textbook.20. Current concepts of the teaching process.

Psychology: 1.Psychology as a science, goals and subject of psychology in terms of influential psychological directions.2.Pedagogical psychology in teacher training, its subject, function.3.Psychology in school practice: professional forms of control and assistance, psychological examination, counseling process. Crisis intervention. Code of ethics.4.Psychology in school practice: approaches and models of prevention, prevention spectrum, protective and risk factors of risk behavior of schoolchildren in the context of the theory of triadic influence.5.Psychology in school practice: effective strategies for prevention of substance use.6.Psychology of education from from the point of view of psychodynamic approach (Psychoanalysis and Individual Psychology).7.Psychology of education from the point of

view of humanistic psychology.8.Psychology of education from the point of view of cognitive psychology.9.Psychology of learning and types of learning supplemented by examples from school practice. / success in the context of individual theories of cognitive development.11. Nutritional peculiarities, school non-success / intelligence in terms of intelligence.12. Memory and developmental peculiarities, school non-success 13. Attention and developmental peculiarities, school non / success peculiarities of individual types of family, educational styles.15.Social relations at school, me modes of cognition of interaction U and Ž. Psychosocial climate of school class and school, methods of cognition, sociometry.16.Social influence: presence of others, interpersonal influences and meaningful understanding of social influence in teacher's work.17.Teacher as a professional, his professional ability, teaching style, attitudes towards students, expectations towards students, coping with stress, burnout syndrome.18.Students: gifted and talented, school failure, non-thriving pupils and failing pupils, pupils' self-efficacy.19. Types of research plans and their creation (setting goals, hypotheses, variables, selection of research sample) in the context of pedagogical-psychological research.20. Selected methods of pedagogicalpsychological research - questionnaire, interview, observation and possibilities of their use in school practice.

Recommended literature:

Pedagogika:

Čapek, R.: Moderní didaktika. Praha: Grada, 2016.

Dytrtová, R., Krhutová, M. Učitel. Příprava na profesi. Praha: Grada, 2009.

Kalhous, Z. – Obst, O. 2002. Školní didaktika. Praha: Portál, 2002.

Petlák, E.: Kapitoly zo súčasnej didaktiky. Bratislava: IRIS, 2005.

Prucha, J.: Moderní pedagogika. Praha: Portál, 2012.

Turek, I.: Didaktika. Bratislava: Wolters Kluwer, 2014.

Vališová, A., Kasíková, H.: Pedagogika pro učitele. Praha: Grada, 2010.

Zormanová, L.: Obecná didaktika. Praha: Grada, 2014.

Psychológia:

Mareš, J.: Pedagogická psychologie. Praha : Grada 2013.

Mareš, J., & ČÁP, J.: Psychologie pro učitele. Praha: Portál, 2001.

Džuka, J.: Základy pedagogickej psychológie. Prešov: UK 2003.

Orosová, O. a kol: Psychológia a pedagogická psychológia 1. Košice: UPJŠ, 2005.

Orosová, O. a kol.: Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ 2012.

Bačíková, M., Janovská, A. (2019). Základy metodológie pedagogicko-psychologického

výskumu. Sprievodca pre študentov učiteľstva. 2. rozšírené vydanie. Šafárik press, Košice.

Gavora, P. a kol. (2010). Elektronická učebnica pedagogického výskumu. Bratislava: Univerzita Komenského, 2010. dostupné online na www. e-metodologia. fedu. uniba. sk.

Vágnerová, M.: Základy psychológie. Praha : Karolinum 2005.

Vágnerová, M.: Vývojová psychológie. Praha : Karolinum 2005.

Vágnerová, M.: Škoní podadenská psychologie pro pedagogy. Praha : Karolinum 2005. Výrost,

J., Slaměník, I.: Sociální psychologie. Praha : Grada 2008.

Výrost, J., Salměník, I.: Aplikovaná sociální psychológie I. Praha: Portál 1998.

Strana: 2

Fontana, D. : Psychologie ve školní praxi. Praha: Portál 1997.

Zelina, M.: Stratégie a metódy rozvoja osobnosti. Bratislava, Iris: 1996.

Křivohlavý, J.: Pozitívni psychologie. Praha: Portál 2004.

Křivohlavý, J.: Psychologie zdraví. Praha: Portál 2003.

Course language:

Notes:					
Course assessn Total number o	nent f assessed studen	ts: 157			
А	В	С	D	Е	FX
31.85	33.76	24.2	8.92	0.64	0.64
Provides:			L	<u> </u>	
Date of last mo	dification: 12.03	6.2024			
	f. PhDr. Ol'ga Oro RNDr. Stanislav k		. RNDr. Marcel U	Jhrin, PhD., univ	verzitný

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of Science		
Course ID: ÚBEV/ Course name: Phytogeography FG1/03 FG1/03		
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 14	
Number of ECTS credits: 5		
Recommended semester/trimester of the course: 1., 3.		

Course level: I., II.

Prerequisities:

Conditions for course completion:

1. Lectures are optional, but highly recommended due to the presentation of otherwise difficult-toaccess information and its synthesis.

2. In addition to the exam, the student must complete a mandatory 5-hour field trip focusing on the aspects that determine the spread of plants on Earth, solve practical tasks from the topic of the subject and prepare a semester presentation on the given topic, the presentation is defended at a scientific mini-conference.

Learning outcomes:

After completing the subject, the student is oriented in various aspects of phytogeographic issues and can apply the acquired knowledge both in basic research within chorology, historical and regional phytogeography, as well as in the evaluation of world biomes. The practical application of the subject is within the study of geographically and climatically conditioned changes in vegetation, in the assessment of the reduction of biodiversity and the extinction of the natural plant communities of the Earth, and the acquired knowledge can be used in work in environmental protection.

Brief outline of the course:

- 1. History of the subject. Plants and environment. Dynamics of the earth's surface.
- 2. Abiotic and biotic factors of the plant environment.
- 3. Chorology, range, areal disjunctions, relics, endemism, vicarism.
- 4. Elements of flora older and newer approaches.
- 5. Main features of florogenesis. Paleozoic, Mesozoic, Cenozoic.
- 6. Main features of florogenesis. Cenozoic Pleistocene, Holocene.
- 7. Basics of GIS (geographic information systems) and their use in botanical research.
- 8. Postglacial development of vegetation in Slovakia.
- 9. Current changes in terrestrial vegetation and their study, plant invasions.
- 10. Geography of vegetation: from tropical rainforests to tundra I.
- 11. Geography of vegetation: from tropical rainforests to tundra II.
- 12. Geographical origin of cultivated plants.

Seminars and exercises consist of a 5-hour excursion focusing on the connections and conditionality of plant distribution and indoor exercises focusing on an overview of phytogeographical literature, atlases of plant distribution and their importance, types of mapping, types of areas, practical

assessment of floristic elements and types of disjunctions, work with maps of specific taxa throughout Europe. Further: regional phytogeography of the Earth, historical overview of opinions on the phytogeographical (floristic) division of Slovakia. Plant phylogeography. Student presentations of final semester theses (phytogeographical mini-conference).

Recommended literature:

Hendrych R.: Fytogeografie. - SPN, Praha 1984.

Prach K., Štech M., Říha P.: Ekologie a rozšíření biomů na Zemi. - Scientia, Praha 2009. Krippel E.: Postglaciálny vývoj vegetácie Slovenska. – Veda, vyd. SAV, Bratislava, 1986.

Dahl, E.: The Phytogeography of Northern Europe, - Cambridge University Press, 2007.

Brown J. H., Lomolino M. V.: Biogeography. - Sinauer Associates, Sunderland, 1998.

Myers A. A., Giller P. S.: Analytical Biogeography. - Chapman & Hall, 1990.

Various literature devoted to the geography of vegetation (mainly nature and travel), articles in National Geographic, Živa, Vesmír and other magazines.

Course language:

Notes:

Course assessment

Total number of assessed students: 404

А	В	С	D	Е	FX
38.61	22.03	21.53	8.66	8.42	0.74

Provides: prof. RNDr. Pavol Mártonfi, PhD., Mgr. Vladislav Kolarčik, PhD., univerzitný docent

Date of last modification: 24.07.2022

-	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚINF/ PDSI2/22	Course name: Pro-seminar to diploma thesis in informatics
Course type, scope a Course type: Practic Recommended cour Per week: 1 Per stu Course method: pre	ce rse-load (hours): Idy period: 14
Number of ECTS cr	edits: 1
Recommended seme	ester/trimester of the course: 1.
Course level: II.	
Prerequisities:	
 Analysis of selecter Analysis of selecter Analysis of a selecter Analysis of a selecter Conditions for the fire Creation of a thesis Creation of an over Creation and preser Conditions for success Fulfillment of all ong 	ng evaluation: Formatics curriculum of a selected country. Ed contributions of educational journals. Ed papers of conference proceedings. Eted educational project.
and life cycle). The student actively of conference proceeding The student gains an as the teaching of cur	an idea of a thesis focused on the teaching of informatics (its types, structure exploit educational information resources (publication databases, journals and hgs, educational projects). overview of the content of informatics teaching at home and abroad, as well rrent topics in informatics. ate an overview of the current state of teaching issues related to the selected tesis.
theses).2. Analysis of selecter3. Overview of infordatabases, journals and4. Study and analysis	sed on teaching informatics (types of theses, structure of thesis, life cycle o ed theses on teaching informatics (CRZP). formation resources (curricula of informatics abroad, available publication and conference proceedings, educational projects). s of informatics curricula in selected countries (CSTA, UK, Czech Republic). of selected papers of educational journals (INFEDU, C&E, JTIE, ICTE, MFI

6. Study and analysis of selected papers of educational journals (INFEDU, C&E, JTIE, ICTE, MFI, OMFI, sciED).

7. Study and analysis of selected papers of conference proceedings (DidInfo, ISSEP, EduLearn, MIPRO, ICETA).

8. Study and analysis of selected conference proceedings (DidInfo, ISSEP, EduLearn, MIPRO, ICETA).

9. Study and analysis of selected educational projects (NP ITA, ĎVUi, PRIM, eTwinning).

10. Study and analysis of selected educational projects (NP ITA, ĎVUi, PRIM, eTwinning).

11. Creation of a diploma website with an overview of the current state of the topic of the diploma thesis.

12. Creation of a diploma website with an overview of the current state of the topic of the diploma thesis.

Recommended literature:

MEŠKO, Dušan, Dušan KATUŠČÁK and Ján FINDRA, 2013. Akademická príručka: Chcete byť úspešní na vysokej škole? 3. vydanie. Osveta, 495 pp. ISBN 9788080633929.

KATUŠČÁK, Dušan, 2013. Ako písať záverečné a kvalifikačné práce. Enigma, 162 pp. ISBN 8089132454.

COMPUTER SCIENCE TEACHERS ASSOCIATION. Home Page

Computer Science Teachers Association [online]. [cited 2021-7-30]. Available from: https://www.csteachers.org/

ASSOCIATION FOR COMPUTING MACHINERY. The ACM Digital Library [online]. [cited 2021-7-30]. Available from: https://dl.acm.org/

SPRINGER NATURE SWITZERLAND AG. Home - Springer [online]. [cited 2021-7-30]. Available from: https://link.springer.com/

BAČÍKOVÁ, Mária, Anna JANOVSKÁ and Oľga OROSOVÁ, 2019. Základy metodológie pedagogicko-psychologického výskumu: Sprievodca pre študentov učiteľstva [online]. 2. doplnené vydanie. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 195 pp. [cited 2021-7-29]. ISBN 978-80-8152-805-7. Available from: https://unibook.upjs.sk/sk/filozoficka-fakulta/1266-zaklady-metodologie-pedagogicko-psychologickeho-vyskumu-sprievodca-pre-

studentov-ucitelstva

Informatics in Education. Vilnius University Institute of Data Science and Digital Technologies. ISSN 2335-8971 (online). Also available from: https://infedu.vu.lt/journal/INFEDU

Matematika–fyzika–informatika. Praha: PROMETHEUS. ISSN 1805-7705. Also available from: http://www.mfi.upol.cz/index.php/mfi/index

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, TECHNICKÁ UNIVERZITA V LIBERCI, 2021. Zborníky medzinárodnej konferencie DidInfo (od roku 2011) [online]. [cited 2021-7-30]. Available from: http://www.didinfo.net/minule-rocniky

CENTRUM VEDECKO-TECHNICKÝCH INFORMÁCIÍ SR. Centrálny register záverečných a kvalifikačných prác [online]. [cited 2021-7-30]. Available from: https://cms.crzp.sk/

Course language:

Slovak and partly English due to selected information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment Total number of assessed students: 5	
abs	n
100.0	0.0
Provides: doc. RNDr. L'ubomír Šnajder, PhD.	· ·
Date of last modification: 08.02.2022	
Approved: prof. PhDr. Ol'ga Orosová, CSc., profesor, prof. RNDr. Stanislav Krajči, PhD.	doc. RNDr. Marcel Uhrin, PhD., univerzitný

Faculty: Facult					
-	ty of Science				
Course ID: KPPaPZ/PASZ				s. Etiology,	
	Practice ed course-load Per study perio	(hours):			
Number of EC	CTS credits: 2				
Recommended	l semester/trin	nester of the cours	e: 2.		
Course level: I	Ι.				
Prerequisities:					
Conditions for	· course comple	etion:			
Learning outco	omes:				
and adolescent	ts. Definition o	f aggressive behav	vior. Concepts o	1	
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro	broaches to aggr ily. Bullying. F lems arising from emotional exp School classrood sis intervention beration with of bom and school drojovom texte	of aggressive behaver ression. Causes and Psychology of prob- m group relationship erience. Solving pro- om management, g . Work with parent ther experts. Preve- climate, school pro- Na získanie ďalších	factors of aggress lem students. Pr ps. Adolescent li oblematic and a roup preventive s of problem stu ntion of aggress evention program	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavior and intervention dents. Principles ive and problems ns.	olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro Viac o tomto z Odoslať spätnú	proaches to aggr ily. Bullying. F lems arising from emotional expension School classroot sis intervention peration with of bom and school drojovom texter i väzbu	ression. Causes and Psychology of prob m group relationshi erience. Solving pro- om management, g . Work with parent ther experts. Preve climate, school pro-	factors of aggress lem students. Pr ps. Adolescent li oblematic and a roup preventive s of problem stu ntion of aggress evention program	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavior and intervention dents. Principles ive and problems ns.	aggressiveness olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro Viac o tomto z Odoslať spätnú Bočné panely	broaches to aggr ily. Bullying. F lems arising from emotional expension School classrood sis intervention beration with of bom and school drojovom texter i väzbu I literature:	ression. Causes and Psychology of prob m group relationshi erience. Solving pro- om management, g . Work with parent ther experts. Preve climate, school pro-	factors of aggress lem students. Pr ps. Adolescent li oblematic and a roup preventive s of problem stu ntion of aggress evention program	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavior and intervention dents. Principles ive and problems ns.	aggressiveness olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro Viac o tomto z Odoslať spätnú Bočné panely Recommended	broaches to aggr ily. Bullying. F lems arising from emotional expension School classrood sis intervention beration with of bom and school drojovom texter i väzbu I literature:	ression. Causes and Psychology of prob m group relationshi erience. Solving pro- om management, g . Work with parent ther experts. Preve climate, school pro-	factors of aggress lem students. Pr ps. Adolescent li oblematic and a roup preventive s of problem stu ntion of aggress evention program	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavior and intervention dents. Principles ive and problems ns.	aggressiveness olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro Viac o tomto z Odoslať spätnú Bočné panely Recommended Course langua Notes: Course assess	proaches to aggr iily. Bullying. F lems arising from emotional expension School classrood sis intervention peration with of bom and school drojovom texter i väzbu I literature: ge:	ression. Causes and Psychology of prob m group relationshi erience. Solving pro- om management, g . Work with parent ther experts. Preve climate, school pro- Na získanie ďalších	factors of aggress lem students. Pr ps. Adolescent li oblematic and a roup preventive s of problem stu ntion of aggress evention program	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavior and intervention dents. Principles ive and problems ns.	aggressiveness olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro Viac o tomto z Odoslať spätnú Bočné panely Recommended Course langua Notes: Course assess	broaches to aggr ily. Bullying. F lems arising from emotional expension School classrood sis intervention beration with other boom and school drojovom texter i väzbu I literature: ge: nent	ression. Causes and Psychology of prob m group relationshi erience. Solving pro- om management, g . Work with parent ther experts. Preve climate, school pro- Na získanie ďalších	factors of aggress lem students. Pr ps. Adolescent li oblematic and a roup preventive s of problem stu ntion of aggress evention program	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavior and intervention dents. Principles ive and problems ns.	aggressiveness. olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro Viac o tomto z Odoslať spätnú Bočné panely Recommended Course langua Notes: Course assess Total number of	broaches to aggr ily. Bullying. F lems arising from emotional expension School classrood sis intervention beration with of bom and school drojovom texter a väzbu I literature: age: ment of assessed stud	ents: 125	factors of aggres olem students. Pr ps. Adolescent li roblematic and a roup preventive as of problem stu ntion of aggress evention program h informácií o pr	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavio and intervention dents. Principles ive and problems is. eklade sa vyžadu	aggressiveness olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at je zdrojový text
Theoretical app and in the fam behavior. Probl from impaired environment. S classroom. Cri a parent. Coop school. Classro Viac o tomto z Odoslať spätnú Bočné panely Recommended Course langua Notes: Course assess Total number of A	broaches to aggr iily. Bullying. F lems arising from emotional expension School classrood sis intervention beration with of bom and school drojovom texter i väzbu I literature: age: nent of assessed stud B 14.4	ents: 125	factors of aggress elem students. Pr ps. Adolescent li roblematic and a roup preventive s of problem stu ntion of aggress evention program h informácií o pr	f aggression vs. ssive behavior. Vi oblems resulting festyle issues. Pro ggressive behavio and intervention dents. Principles ive and problems is. eklade sa vyžadu	aggressiveness olence at school from disturbed oblems resulting or in the school work with the of interviewing atic behavior at je zdrojový text

University: P. J. Šafán	rik University in Košice
Faculty: Faculty of S	cience
Course ID: KPPaPZ/KPE/ EPU/15	Course name: Professional Ethics for Teachers and School Counsellors
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: 2., 4.
Course level: II.	
Prerequisities:	
Preparation (descripti during the semester, t 77 - 86, C 69 - 76, D 6	n in seminars (max. 1 absence) - 30p, 2. Preparation for the seminar - 40p, 3. ion and analysis) of the moral dilemma - 30p. By summing the points obtained the student obtains the final evaluation according to the scale: A 87 - 100, B 51 - 68, E 56 - 60, FX 55 and less. Detailed information in the electronic board b. The teaching of the subject will be realized by a combined method.
of school counselors, related to these profes Skills: They will learn issues, and critically of Competencies: They	will acquire basic knowledge of the principles of teacher ethics and the ethics , understanding the theoretical foundations of moral issues and ethical codes ssions. In to analyze and solve moral problems in pedagogical practice, discuss ethical evaluate situations with a moral context. Will be able to apply ethical principles in practice, resolve moral dilemmas, oriented school culture.
their manifestations) Development of mora (Piaget, Kohlberg, Gi Moral behavior (from intelligence in the wo Possibilities of exan conformity, obedience judgment)	bries of emotion, the center of emotions in the brain, types of emotions and al reasoning, cognitive approaches to moral reasoning and their comparison illigan, Eisenberg, Selman, Lind), in the point of view of learning theories) and moral (vs. social and emotional)

Possibilities of influencing and stimulating moral judgment, use of moral dilemma in education Cheating and other unethical manifestations in the school environment, ethics and etiquette of final exams

Recommended literature:

Ráczová, B., & Babinčák, P. (2009). Základy psychológie morálky. Košice: Equilibria. ISBN 978-80-7097-786-6.

Gluchmanová, M. (2007). K niektorým terminologickým otázkam učiteľskej etiky. Pedagogická orientace, 17(2), 11–25. ISSN 1211-4669.

Malankievičová, S. (2008). Profesijná etika. Prešov: FF PU.

Miezgová, J., & Vargová, D. (2007). Etika. Bratislava: SPN Mladé letá.

Remišová, A. (2008). Dejiny etického myslenia v Európe a USA. Bratislava: Kalligram.

Zelina, M. (2010). Teória výchovy alebo hľadanie dobra. Bratislava: SPN.

Gluchmanová, M. (2009). Uplatnenie princípov a hodnôt etiky sociálnych dôsledkov v učiteľskej etike. Prešov: FF PU. ISBN 978-80-555-0042-3.

Campbell, E. (2003). The ethical teacher. Berkshire, England: Open University Press. ISBN 0-335-21219-0.

Miller, C. B. (2021). Moral psychology (Elements in Ethics). Cambridge University Press. Tiberius, V. (2023). Moral psychology: A contemporary introduction (2nd ed.). Routledge.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 567

А	В	С	D	Е	FX
97.35	2.29	0.35	0.0	0.0	0.0

Provides: doc. Mgr. Gabriel Baník, PhD.

Date of last modification: 04.02.2025

University: P. J. Šaf	ărik University in Košice
Faculty: Faculty of	Science
Course ID: KPPaPZ/PPgU/15	Course name: Psychology and Educational Psychology
Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p	ure / Practice urse-load (hours): r study period: 28 / 28
Number of ECTS c	eredits: 5
Recommended sem	ester/trimester of the course: 1.
Course level: II.	
Prerequisities:	
and a written verifier of 30 points earned (60%). For more in evaluation: A 87 – method. The inform	rse completion: imum of 40 points can be earned during the semester (through two assignments cation). Exam entry criteria: Active participation in exercises and a minimum during the semester. Continuous assessment (40%) and written examination formation and updates, refer to the electronic board of the course AIS2. Final 100 B 77 – 86 C 69 – 76 D 61 – 68 E 56 – 60 FX 55 and less Combined nation will be yearly specified on the electronic noticeboard of the course in v in LMS UPJŠ or MS Teams environment.
	: e to show understanding of the human behaviour in educational situations. ble to describe, explain and justify possible teachers' decisions by using

Students will be able to describe, explain and justify possible teachers' decisions by using psychological concepts, principles and theories.

Students will be able to apply the psychological findings in the field of education.

Students will be able to explain how adolescents learn and retain new information, to explain their behaviour in response to educational environment.

Students will be able to explain the desired data-based modification of adolescents' behaviour to bring an all-round development of his personality and school performance, to explain the desired data-based modification of the behaviour of adolescents with educational problems, with disadvantages.

Brief outline of the course:

Introduction: The content of the course is based on current knowledge of psychological disciplines, especially pedagogical and school psychology.

Teaching is realized by a combination of lectures with engaging narrative interpretation and seminars using interactive, experiential methods, discussion and open communication with mutual respect, support of independence, activity and motivation of students.

Syllabus: Goals and Subject of Psychology and Educational Psychology, the field and its transformations (Educational psychology and its changes over time, its mission, and possible personality transformations). School psychology, school psychologist. Professional forms of support in school practice. Psychological assessment. Counseling process. Crisis intervention. Effective strategies and programs for the prevention of risky behavior among schoolchildren.

Risk/protective factors of risky behavior. Implementation of psychological concepts of personality into school practice. Psychological and educational-psychological characteristics of learning (psychology of learning, types of learning, learning styles). Developmental characteristics and school (un)success (Cognitive, social, emotional, and personality development in childhood and adolescence, Psychological characteristics of adolescence and adulthood. Intelligence, memory, attention, and developmental characteristics of schoolchildren, and school (un)success). Social psychology of the school (teacher-student relationships, methods of understanding teacherstudent interaction, the psychosocial climate of the school) and family (factors of family functionality, functional/problematic/dysfunctional/non-functional family, parenting styles). Main actors: Teacher (the teacher as a professional, their professional competence, teaching style, attitudes toward students, expectations of students, coping with stress, burnout syndrome), students (gifted and talented, school failure, successful/unsuccessful students, and failing students, student self-efficacy), school class (as a small social group, internal and external differentiation, bullying, and prevention), psychosocial climate of the school class.

Recommended literature:

Compulsory:

Lectures (Literary sources in published lectures)

Mareš, J.: Pedagogická psychologie. Praha : Grada 2013.

Recommended:

Mareš, J., & ČÁP, J.: Psychologie pro učitele. Praha: Portál, 2001.

Džuka, J.: Základy pedagogickej psychológie. Prešov: UK 2003.

Orosová, O. a kol: Psychológia a pedagogická psychológia 1. Košice: UPJŠ, 2005.

Orosová, O. a kol.: Základy prevencie užívania drog a problematického používania internetu v školskej praxi. Košice: UPJŠ 2012.

Vágnerová, M.: Základy psychológie. Praha : Karolinum 2005.

Vágnerová, M.: Vývojová psychológie. Praha : Karolinum 2005.

Vágnerová, M.: Škoní podadenská psychologie pro pedagogy. Praha : Karolinum 2005. Výrost,

J., Slaměník, I.: Sociální psychologie. Praha : Grada 2008.

Výrost, J., Salměník, I.: Aplikovaná sociální psychológie I. Praha: Portál 1998.

Fontana, D. : Psychologie ve školní praxi. Praha: Portál 1997.

Zelina, M.: Stratégie a metódy rozvoja osobnosti. Bratislava, Iris: 1996.

Křivohlavý, J.: Pozitívni psychologie. Praha: Portál 2004.

Křivohlavý, J.: Psychologie zdraví. Praha: Portál 2003.

ELECTRONIC INFORMATION RESOURCES (UL UPJŠ)

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 1820

А	В	С	D	Е	FX
10.88	20.27	24.12	22.25	20.16	2.31

Provides: prof. PhDr. Oľga Orosová, CSc., PhDr. Anna Janovská, PhD.

Date of last modification: 09.09.2024

	rik University in Košice
Faculty: Faculty of S	
Course ID: KPPaPZ/PTPN/17	Course name: Psychology of Creativity and Working with Gifted Students in Teacher Practice
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: 2.
Course level: II.	
Prerequisities:	
seminar work - 30p. I final evaluation accor FX 55 and less. Deta	e completion: a in lessons (max. 2 absences) - 30p, 2. own output at the seminar - 40p, 3. By summing the points obtained during the semester, the student obtains the rding to the given scale: A 87 - 100, B 77 - 86, C 69 - 76, D 61 - 68, E 56 - 60, iled information in the electronic board of the course in AIS2. The teaching realized by a combined method.
the specifics of work	nds the basic factors and process of creativity. The student is able to explain ing with the gifted. He knows the methods of identifying talent and also can port creativity and the development of talent in the implementation of creative n.
Cognitive processes i Creativity and cogniti Development of creat Talent and giftedness Methods of determini Methods of developin Creativity and talent of Recommended litera DOČKAL, V. (2006) štruktúru osobnosti. I	vity. theory of creativity. and biological factors of creativity. n creativity. ive style. tivity. ing creativity and talent. ng creativity and talent. development programs. Specifics of working with the gifted children. ture: : Inteligencia a tvorivosť, tvorivé nadanie od intelektovej schopnosti po n: KUSÁ, D. a kol. EDS. (2006): Zjavná a skrytá tvorivosť. Bratislava:
výzkumy a jejich vzta	ess 19): Nadání a nadaní. Pedagogicko- psychologické přístupy, modely, ah ke školské praxi. Praha: Grada Publishing ON, K.H. (2000): Kreativita. Praha: Grada

GROSS, M.U.M. (2009): Highly Gifted Young People: Development from Childhood to Adulthood. In: SHAVININA, L. (2009): International Handbook on Giftedness. Part one. Springer

KUSÁ, D. a kol. EDS. (2006): Zjavná a skrytá tvorivosť. Bratislava: Slovak Academic Press KOLKOVÁ, S. (2000): Tvorivosť a jej rozvoj vo voľnočasových aktivitách detí (v školskom klube). Bratislava: Metodické centrum v Bratislave

LOKŠOVÁ, I., - LOKŠA, J.: (2003): Tvořivé vyučování. Praha: Grada

LAZNIBATOVÁ, J. (2004): Špecifiká vývinu a vzdelávania nadaných detí. In: Psychológia a patopsychológia dieťaťa, roč.39, č. 2-3

LAZNIBATOVÁ, J. (2001): Nadané dieťa, jeho vývin, vzdelávanie a podporovanie. Bratislava: Iris

MESÁROŠOVÁ, M. (1998): Nadané deti. Poznávanie a rozvíjanie ich osobnosti. Prešov: Manacon

SZOBIOVÁ, E. (2004): Tvorivosť – Od záhady k poznaniu. Bratislava: Stimul - Centrum informatiky a vzdelávania FIF UK

National and international scientific journlas

Course	language:
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slovak

Notes:

Course assessment

Total number of assessed students: 81

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

Provides: Mgr. Lucia Barbierik, PhD.

Date of last modification: 24.06.2022

University: P. J. Šafárik University in Koš	śice
Faculty: Faculty of Science	
Course ID:Course name: ReadKSSFaK/ČGUAP/15	ding Literacy in Educational Process
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: 2	
Recommended semester/trimester of the	e 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: 48	
abs	n
100.0	0.0
Provides: doc. PaedDr. Ivica Hajdučekova	á, PhD.
Date of last modification: 07.03.2025	
Approved: prof. PhDr. Ol'ga Orosová, CS profesor, prof. RNDr. Stanislav Krajči, Ph	c., doc. RNDr. Marcel Uhrin, PhD., univerzitný D.

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ PPU1a/15	Course name: Running pr	actice
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 cours	e: 2.
Course level: II.		
Prerequisities:		
internship supervisor. Conditions for the fir	uous evaluation: in the selected type of int al evaluation: lent's approach to the intern	ernship based on the instructions given by the ship and the work performed in the internship by
Learning outcomes: Experiences with the	implementation of a selecte	d type of internship.
a menu of topics pres1. assistance in the resubmitted homework2. assistance in the in3. realizations of court	the internship is specified by ented by the course adminis alization of exercises for yu s	
Recommended litera The study or technica internship by the inte	l literature is determined in	dividually depending on the focus of the
Course language: Slovak or English		
Notes:		
Course assessment Total number of asses	ssed students: 216	
	abs	n
	97.69	2.31

Provides: Ing. Miron Kuzma, PhD.

Date of last modification: 23.11.2021

Faculty: Faculty of S	Science
Course ID: ÚINF/ MPPb/15	Course name: Scheduled practice teaching
Course type, scope a Course type: Practi Recommended cou Per week: Per stuc Course method: pro	ce rse-load (hours): ly period: 36s
Number of ECTS cr	redits: 1
Recommended seme	ester/trimester of the course: 2.
Course level: II.	
Prerequisities: KPE/	/MPPa/15 and KPE/PDU/15 and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)
 Independent leading Participation in 6 and Participation in a matching Participation in a matching Submission of 11 and Submission of a participation of a participation of a lip Submission of a lip Submission of a matching 	1 lessons of the subject of informatics. ng 1 lesson from the subject of informatics. analyzes from lessons. reflexive colloquium with a didactician of informatics. nal evaluation:
the subject of inform	wledge by observing the practical application of teaching skills for teaching atics and get to know the organization of school work. They also acquire their the practical implementation of a informatics lesson.
it with teacher trainer is scheduled once a v	process of teaching informatics at secondary and primary school and analysed r. Practice takes place continuously during the course of the semester. Practice week at the time of first to third lesson in schools. are students observing/teaching, the third lesson is for analysis of the first two
učiteľov [online]. Ba Bystrica, 226 pp. [cit	ature: lena TOMENGOVÁ et al., 2015. Profesijná praktická príprava budúcich Inská Bystrica: Vydavateľstvo Belianum, Univerzita Mateja Bela, Banská ted. 2021-7-28]. ISBN 978-80-557-0860-7. Available from: https:// ublication/publicationFileDownload.php?ID=18667

OROSOVÁ, Renáta and Zuzana BOBEROVÁ, 2016. Pregraduálna príprava učiteľov: Organizácia pedagogickej praxe na UPJŠ [online]. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 142 pp. [cited 2021-7-28]. ISBN 978-80-8152-460-8. Available from: https:// unibook.upjs.sk/sk/pedagogika/342-pregradualna-priprava-ucitelov-organizacia-pedagogickejpraxe-na-upjs BOBEROVÁ, Zuzana, 2017. Začínajúci učiteľ a školská legislatíva I. [online]. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 104 pp. [cited 2021-7-28]. ISBN 978-80-8152-490-5. Available from: https://unibook.upjs.sk/sk/pedagogika/398-zacinajuci-ucitela-skolska-legislativa-i Current informatics textbooks for primary and secondary schools in Slovakia.

Course language:

Slovak

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course	assessment

Total number of assessed students: 74

abs	n
100.0	0.0

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 01.08.2021

University: P. J. Salarik	University in Košice	
Faculty: Faculty of Scie	ence	
Course ID: ÚBEV/ C MPPb/15	ourse name: Scheduled p	practice teaching
Course type, scope and Course type: Practice Recommended course Per week: Per study J Course method: prese	e-load (hours): period: 36s	
Number of ECTS cred	its: 1	
Recommended semeste	er/trimester of the cours	e: 2.
Course level: II.		
Prerequisities: KPE/MI	PPa/15 and KPE/PDU/15	and (KPPaPZ/PaSPP/09 or KPPaPZ/PPgU/15)
Conditions for course o During the practice stud guidance of a teacher tra Confirmation of classro Written assessment from	dent observe 11 biology le ainer. oom visits.	essons and leads one own biology hour under the
Learning outcomes:		
Students acquire knowle	getting to know the organi	ctical application of teaching skills for teaching the zation of school work. Introduction into practical
Students acquire knowled subject of biology and g implementation of biology Brief outline of the cou Students observe the pro- with teacher trainer. Pra- is scheduled once a wee	getting to know the organi ogy lesson. Irse: ocess of teaching biology actice takes place continu- ek at the time of first to th	zation of school work. Introduction into practical at primary and secondary school and analyzed it ously during the course of the semester. Practice
Students acquire knowled subject of biology and g implementation of biology Brief outline of the cour Students observe the pro- with teacher trainer. Pra- is scheduled once a weet The first two hours obs a teacher trainer. Recommended literatur	getting to know the organi ogy lesson. Trse: ocess of teaching biology actice takes place continu- ek at the time of first to the servation/teaching, the thi	zation of school work. Introduction into practical at primary and secondary school and analyzed it ously during the course of the semester. Practice ird lesson in schools. rd hour analysing process under the guidance of
Students acquire knowled subject of biology and g implementation of biology Brief outline of the cours Students observe the pro- with teacher trainer. Pra- is scheduled once a weet The first two hours obs a teacher trainer. Recommended literature	getting to know the organi ogy lesson. Inse: occess of teaching biology actice takes place continu- ek at the time of first to the servation/teaching, the this Inre:	zation of school work. Introduction into practical at primary and secondary school and analyzed it ously during the course of the semester. Practice ird lesson in schools. rd hour analysing process under the guidance of
Students acquire knowled subject of biology and g implementation of biology Brief outline of the cours Students observe the pro- with teacher trainer. Pra- is scheduled once a weet The first two hours obs a teacher trainer. Recommended literatur Current biology textboor	getting to know the organi ogy lesson. Inse: occess of teaching biology actice takes place continu- ek at the time of first to the servation/teaching, the this Inre:	zation of school work. Introduction into practical at primary and secondary school and analyzed it ously during the course of the semester. Practice ird lesson in schools. rd hour analysing process under the guidance of
Students acquire knowled subject of biology and g implementation of biology Brief outline of the cours Students observe the pro- with teacher trainer. Pra- is scheduled once a weet The first two hours obs a teacher trainer. Recommended literatur Current biology textboor Course language:	getting to know the organi ogy lesson. Irse: occess of teaching biology actice takes place continu- ek at the time of first to the servation/teaching, the this irre: oks for primary and second	zation of school work. Introduction into practical at primary and secondary school and analyzed it ously during the course of the semester. Practice ird lesson in schools. rd hour analysing process under the guidance of
Students acquire knowled subject of biology and g implementation of bioloc Brief outline of the course Students observe the pro- with teacher trainer. Pra- is scheduled once a weet The first two hours observe a teacher trainer. Recommended literatur Current biology textboor Course language: Notes: Course assessment Total number of assessed	getting to know the organi ogy lesson. Irse: occess of teaching biology actice takes place continu- ek at the time of first to the servation/teaching, the this irre: oks for primary and second	zation of school work. Introduction into practical at primary and secondary school and analyzed it ously during the course of the semester. Practice ird lesson in schools. rd hour analysing process under the guidance of
Students acquire knowled subject of biology and g implementation of bioloc Brief outline of the course Students observe the pro- with teacher trainer. Pra- is scheduled once a wee The first two hours obs a teacher trainer. Recommended literatur Current biology textboor Course language: Notes: Course assessment Total number of assessed al	ed students: 568	zation of school work. Introduction into practical at primary and secondary school and analyzed it ously during the course of the semester. Practice ird lesson in schools. rd hour analysing process under the guidance of dary schools in Slovakia.
Students acquire knowled subject of biology and g implementation of bioloc Brief outline of the course Students observe the pro- with teacher trainer. Pra- is scheduled once a wee The first two hours obs a teacher trainer. Recommended literatur Current biology textboor Course language: Notes: Course assessment Total number of assessed al	ed students: 568	at primary and secondary school and analyzed it ously during the course of the semester. Practice ird lesson in schools. rd hour analysing process under the guidance of dary schools in Slovakia.

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚBEV/ SPP/08	Course name: School experiments and observations
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:	
of practical exercize	e completion: er conducted experiments and observations. Semester Project Methodology on the chosen topic biology curriculum, presentation and demonstration of t at the end of the semester.
	how to carry out biological school experiments and classroom observations.
experiments and observations practical work during biological observation	ourse: at training and application skills that are necessary for the implementation of ervations in the classroom. It helps students develop theoretical knowledge in g training and familiarizes them with didactic methods in demonstrating the n and educational experiments. It focuses on the possibilities of applying these as stages of a teaching unit.
rastlín. Košice: UPJŠ UŠÁKOVÁ, K. ČIPH Praktické cvičenia a s vyd. ISBN: 97880100 UŠÁKOVÁ, K. ČIPH Praktické cvičenia a s ISBN9788010023912	IMÁKOVÁ, K. 2005. Demonštračné pokusy a pozorovania z biológie ; Prírodovedecká fakulta, 84 s. ISBN 80-7097-610-1. KOVÁ, E., NAGYOVÁ, S. GÁLOVÁ, T. 2012, Biológia pre gymnáziá 7: seminár I, Slovenské pedagogické nakladateľstvo - Mladé letá (Bratislava) 2 023905 KOVÁ, E., NAGYOVÁ, S. GÁLOVÁ, T. 2012, Biológia pre gymnáziá 8: seminár II, Slovenské pedagogické nakladateľstvo - Mladé letá (Bratislava)
Course language: Slovak	
Notes: x	

Course assessment					
Total number of	of assessed studen	ts: 115			
А	В	С	D	Е	FX
66.96	19.13	11.3	1.74	0.0	0.87
Provides: PaedDr. Andrea Lešková, PhD.					
Date of last modification: 31.05.2021					
Approved: prof. PhDr. Oľga Orosová, CSc., doc. RNDr. Marcel Uhrin, PhD., univerzitný profesor, prof. RNDr. Stanislav Krajči, PhD.					

	University:	ΡJ	Šafárik	University	in Košice
I	University.	1	Juliant	Oniversity	

Faculty: Faculty of Science

Course ID: ÚINF/	Course name: Seminar to diploma theses in informatics XI
DSU1a/15	

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: ÚINF/PDSI1/15 or ÚINF/PDSI2/22

Conditions for course completion:

Conditions for ongoing evaluation:

- 1. Creation of a glossary of terms and a concept map for teaching a selected topic.
- 2. Creation of a collection of solved tasks for teaching the selected topic.
- 3. Creation of learning objectives and a graded system of tasks for teaching a selected topic.

Conditions for the final evaluation:

- 1. Update and presentation of the thesis website.
- Conditions for successful completion of the course:

Fulfillment of all ongoing and final assignments.

Learning outcomes:

The student will gain an overview of the issues of pedagogical research in the field of teaching informatics.

The student continuously works on his / her thesis (analyzes the content of teaching a selected topic, creates a glossary of terms and a concept map, creates a collection of tasks and then a system of graded tasks) and presents the ongoing results of his / her thesis.

Brief outline of the course:

1. Pedagogical research in the field of teaching informatics (analysis of selected scientific studies with discussion).

2. Pedagogical research in the field of teaching informatics (analysis of selected scientific studies with discussion).

3. Pedagogical research in the field of teaching informatics (design of own pedagogical action research).

4. Analysis of the content of teaching of the selected topic (creation of a glossary of terms and a concept map).

5. Analysis of the content of teaching of the selected topic (creation of a glossary of terms and a concept map).

- 6. Creation of a collection of solved problems for teaching the selected topic.
- 7. Creation of a collection of solved problems for teaching the selected topic.
- 8. Creation of a collection of solved problems for teaching the selected topic.
- 9. Creation of learning objectives and a graded system of tasks for teaching the selected topic.

- 10. Creation of learning objectives and a graded system of tasks for teaching the selected topic.
- 11. Presentations of ongoing results of students' theses, updating of thesis websites.
- 12. Presentations of ongoing results of students' theses, updating of thesis websites.

Recommended literature:

MEŠKO, Dušan, Dušan KATUŠČÁK and Ján FINDRA, 2013. Akademická príručka: Chcete byť úspešní na vysokej škole? 3. vydanie. Osveta, 495 pp. ISBN 9788080633929.

KATUŠČÁK, Dušan, 2013. Ako písať záverečné a kvalifikačné práce. Enigma, 162 pp. ISBN 8089132454.

COMPUTER SCIENCE TEACHERS ASSOCIATION. Home Page

Computer Science Teachers Association [online]. [cited 2021-7-30]. Available from: https://www.csteachers.org/

ASSOCIATION FOR COMPUTING MACHINERY. The ACM Digital Library [online]. [cited 2021-7-30]. Available from: https://dl.acm.org/

SPRINGER NATURE SWITZERLAND AG. Home - Springer [online]. [cited 2021-7-30]. Available from: https://link.springer.com/

BAČÍKOVÁ, Mária, Anna JANOVSKÁ and Oľga OROSOVÁ, 2019. Základy metodológie pedagogicko-psychologického výskumu: Sprievodca pre študentov učiteľstva [online]. 2. doplnené vydanie. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 195 pp. [cited 2021-7-29]. ISBN 978-80-8152-805-7. Available from: https://unibook.upjs.sk/sk/filozoficka-fakulta/1266-zaklady-metodologie-pedagogicko-psychologickeho-vyskumu-sprievodca-pre-

studentov-ucitelstva

Informatics in Education. Vilnius University Institute of Data Science and Digital Technologies. ISSN 2335-8971 (online). Also available from: https://infedu.vu.lt/journal/INFEDU Matematika–fyzika–informatika. Praha: PROMETHEUS. ISSN 1805-7705. Also available from:

http://www.mfi.upol.cz/index.php/mfi/index UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, TECHNICKÁ UNIVERZITA V

LIBERCI, 2021. Zborníky medzinárodnej konferencie DidInfo (od roku 2011) [online]. [cited 2021-7-30]. Available from: http://www.didinfo.net/minule-rocniky

CENTRUM VEDECKO-TECHNICKÝCH INFORMÁCIÍ SR. Centrálny register záverečných a kvalifikačných prác [online]. [cited 2021-7-30]. Available from: https://cms.crzp.sk/

Course language:

Slovak and partly English due to selected information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

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Course assessment

Total number of assessed students: 12

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Provides: doc. RNDr. Ľubomír Šnajder, PhD.

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Date of last modification: 01.08.2021

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ DSU1b/22	Course name: Seminar to diploma theses in informatics XI
Course type, scope a Course type: Practic Recommended cour Per week: 1 Per stu Course method: pre	ce rse-load (hours): dy period: 14
Number of ECTS cr	edits: 1
Recommended seme	ster/trimester of the course: 3.
Course level: II.	
Prerequisities: ÚINF	/DSU1a/15
2. Creation of teaching	ng evaluation: stic tools for teaching selected topics. ng aids for teaching selected topics. on for teaching selected topics.

- Conditions for the final evaluation:
- 1. Update and presentation of the thesis website.
- Conditions for successful completion of the course:
- Conditions for successful completion of the course.
- Fulfillment of all ongoing and final assignments.

Learning outcomes:

The student continuously works on his / her thesis (creates diagnostic tools, teaching aids, thematic plan, preparation for teaching, implements and evaluates pilot teaching) and presents the ongoing results of his /her thesis.

Brief outline of the course:

1. Creation of diagnostic tools for teaching the selected topic (didactic test, evaluation section of the project).

2. Creation of diagnostic tools for teaching the selected topic (didactic test, evaluation section of the project).

- 3. Creation of teaching aids (reference materials, work files, tutorials, instructional videos).
- 4. Creation of teaching aids (reference materials, work files, tutorials, instructional videos).
- 5. Creation of teaching aids (reference materials, work files, tutorials, instructional videos).
- 6. Creating a thematic plan. Creation of preparations and implementation of pilot teaching.
- 7. Creation of preparations and implementation of pilot teaching.
- 8. Creation of preparations and implementation of pilot teaching.

9. Evaluation of pilot teaching (results of teaching, identified misconceptions of students, interesting student solutions, other observations from teaching).

10. Evaluation of pilot teaching (results of teaching, identified misconceptions of students, interesting student solutions, other observations from teaching).

11. Presentations of ongoing results of students' theses, updates of diploma websites.

12. Presentations of ongoing results of students' theses, updates of diploma websites.

Recommended literature:

MEŠKO, Dušan, Dušan KATUŠČÁK and Ján FINDRA, 2013. Akademická príručka: Chcete byť úspešní na vysokej škole? 3. vydanie. Osveta, 495 pp. ISBN 9788080633929.

KATUŠČÁK, Dušan, 2013. Ako písať záverečné a kvalifikačné práce. Enigma, 162 pp. ISBN 8089132454.

COMPUTER SCIENCE TEACHERS ASSOCIATION. Home Page

Computer Science Teachers Association [online]. [cited 2021-7-30]. Available from: https://www.csteachers.org/

ASSOCIATION FOR COMPUTING MACHINERY. The ACM Digital Library [online]. [cited 2021-7-30]. Available from: https://dl.acm.org/

SPRINGER NATURE SWITZERLAND AG. Home - Springer [online]. [cited 2021-7-30]. Available from: https://link.springer.com/

BAČÍKOVÁ, Mária, Anna JANOVSKÁ and Oľga OROSOVÁ, 2019. Základy metodológie pedagogicko-psychologického výskumu: Sprievodca pre študentov učiteľstva [online]. 2. doplnené vydanie. Košice: Univerzita Pavla Jozefa Šafárika v Košiciach, 195 pp. [cited

2021-7-29]. ISBN 978-80-8152-805-7. Available from: https://unibook.upjs.sk/sk/filozofickafakulta/1266-zaklady-metodologie-pedagogicko-psychologickeho-vyskumu-sprievodca-prestudentov-ucitelstva

Informatics in Education. Vilnius University Institute of Data Science and Digital Technologies. ISSN 2335-8971 (online). Also available from: https://infedu.vu.lt/journal/INFEDU Matematika, fuzika, informatika, Proha: PROMETHEUS, ISSN 1805-7705, Also available from:

Matematika–fyzika–informatika. Praha: PROMETHEUS. ISSN 1805-7705. Also available from: http://www.mfi.upol.cz/index.php/mfi/index

UNIVERZITA MATEJA BELA V BANSKEJ BYSTRICI, TECHNICKÁ UNIVERZITA V LIBERCI, 2021. Zborníky medzinárodnej konferencie DidInfo (od roku 2011) [online]. [cited 2021-7-30]. Available from: http://www.didinfo.net/minule-rocniky

CENTRUM VEDECKO-TECHNICKÝCH INFORMÁCIÍ SR. Centrálny register záverečných a kvalifikačných prác [online]. [cited 2021-7-30]. Available from: https://cms.crzp.sk/

Course language:

Slovak and partly English due to selected information sources

Notes:

By default, teaching is carried out face to face. If this is not possible (eg due to a pandemic), teaching is provided at a distance through video conferencing programs and LMS.

Course assessment

Total number of assessed students: 14

abs	n
100.0	0.0

Provides: doc. RNDr. Ľubomír Šnajder, PhD.

Date of last modification: 08.02.2022

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	Science
Course ID: KSSFaK/VSJU/15	Course name: Slovak Language for Teachers
Course type, scope a Course type: Lectur Recommended cou Per week: 2 Per stu Course method: pro	re rse-load (hours): ıdy period: 28
Number of ECTS cr	redits: 2
Recommended seme	ester/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
c) elaboration of sem d) successful comple Conditions for obtain 56%) Final evaluation D 64.99 - 56.00% E	ning the final evaluation: a) seminar work / creative task b) final test (min on: 100,00 - 92,00% A 91,99 - 83,00% B 82,99 - 74,00 % C 73.99 - 65.00%
course, which is defi of the performance s standard Slovak in o citation standard. Th basis of current ortho of the text and functi	hation, the student demonstrates adequate mastery of the content standard of the ned by the required literature and seminar content, and demonstrates mastery standard, within which the student is able to practically apply the standard of ral and written communications. manuals, gain skill in the bibliographic and he graduate of the course normatively masters written communication on the ographic rules and knows the basic characteristics of the means of expression onal language style.
sign character of lang	course: sic terms of general linguistics (language – speech, language functions, the guage, language levels, content and form in language, individual and genera nite) on interdisciplinary background and with the application to Slovak as

sign character of language, language levels, content and form in language, individual and general aspect of language units) on interdisciplinary background and with the application to Slovak as a national language. Language standard, codification, usus. Basic codification manuals. Application of orthographic rules in practical documents. Sound culture, pronunciation styles. Orthoepic phenomena in vowels and consonants. Application of rhythmic law and its exceptions. Assimilation and its specific features in Slovak. Style, stylization – methods and demonstration of structure of text components.

Recommended literature:

BÓNOVÁ, I. - JASINSKÁ, L.: Jazyková kultúra nielen pre lingvistov. Košice: UPJŠ 2019. 100 s.

FINDRA, J.: Štylistika slovenčiny. Martin : Osveta, 2004.

FINDRA, J.: Štylistika slovenčiny v cvičeniach. Martin : Osveta, 2005.

KRÁĽ, Á.: Pravidlá slovenskej výslovnosti. Martin: Matica slovenská 2006. 423 s.

Krátky slovník slovenského jazyka. Martin: Matica slovenská 2020.

SABOL, J.- SLANČOVÁ, D. - SOKOLOVÁ, M.: Kultúra hovoreného slova. Prešov, FF UPJŠ 1989.

Pravidlá slovenského pravopisu. Bratislava: Veda 2000 (2013).

SABOL, J. – BÓNOVÁ, I. – SOKOLOVÁ, M.: Kultúra hovoreného prejavu. Prešov: FF PU 2006.

SLANČOVÁ, D.: Praktická štylistika. 2., upravené a doplnené vydanie. Prešov: Slovacontact 1996. 178 s. ISBN 80-901417-9-X.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2006.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2011.

Slovník súčasného slovenského jazyka. Bratislava: Veda 2015.

Course language:

Slovak language

Notes:

Course assessment

Total number of assessed students: 161

А	В	С	D	Е	FX
15.53	23.6	30.43	14.29	13.66	2.48

Provides: PhDr. Iveta Bónová, PhD., univerzitná docentka, PhDr. Lucia Jasinská, PhD.

Date of last modification: 24.06.2022

University: P. J. Šafa	árik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚINF/ Course name: Student scientific conference SVK2/24					
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	ırse-load (hours): dy period:				
Number of ECTS c	redits: 4				
Recommended sem	ester/trimester of the course: 2., 4.				
Course level: II.					
Prerequisities:					

Conditions for course completion:

It is required to be registered for the participation on the Student Scientific Conference (ŠVK) in accordance to the Statute of the Student Scientific Conference at PF UPJŠ and the specific conditions for participation in a given year, which are announced by the dean of the faculty. Within one year of the ŠVK, a student or a research team can register in one track only. It is also possible to apply with a written work that is an integral part of a bachelor's or master's thesis or a result of a student support program. The written work at ŠVK is the result of the student's own work or the work of the research team. It must not show elements of academic fraud and must meet the criteria of good research practice defined in the Rector's Decision no. 21/2021, which lays down the rules for assessing plagiarism at Pavol Jozef Šafárik University in Košice and its components. Fulfillment of the criteria is verified mainly in the process of supervision and in the process of work presentation. Failure to do so is reason for disciplinary action. The condition for the evaluation is a successful presentation and defense of the work in the relevant track headed by a commission appointed by the dean of the faculty. The commission decides on the eligibility of credits and states its decision in the memorandum of the ŠVK.

Learning outcomes:

The student demonstrates mastery of extended theory and professional terminology of the field of study, acquisition of knowledge, skills and competences, the ability to apply them creatively in solving selected field problems, ability to present the results using appropriate presentation methods and tools and ability to actively participate in a professional discussion.

Brief outline of the course:

- 1. Analysis of the state of the art in the field.
- 2. Design and implementation of a solution to the researched problem.
- 3. Evaluation of achieved results.
- 4. Preparation of work annotation.
- 5. Processing the written work.
- 6. Preparation of results presentation.
- 7. Presentation and defense of the obtained results.

Recommended literature:

The recommended literature is specified individually by the student or research team in	
agreement with the consultant or the supervisor.	

Course language:

Slovak or english

Notes:

Course assessment

Total number of assessed students: 101

Provides:					
100.0	0.0	0.0	0.0	0.0	0.0
А	В	С	D	Е	FX

Date of last modification: 24.03.2024

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: KPE/ MPPa/15				
Course type, scope a Course type: Practi- Recommended cou Per week: Per stud Course method: pre	ce rse-load (hours): ly period: 36s			
Number of ECTS cr	edits: 2			
Recommended seme	ster/trimester of the cours	e: 1.		
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: 868			
	abs	n		
	100.0	0.0		
Provides: doc. PhDr. Vagaská, PhD.	Beata Gajdošová, PhD., do	c. PaedDr. Renáta Orosová, PhD., Mgr. Zuzana		
Date of last modifica	ntion: 14.09.2024			
11 1	r. Oľga Orosová, CSc., doc. Stanislav Krajči, PhD.	. RNDr. Marcel Uhrin, PhD., univerzitný		

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: KPE PDU/15	Course na	Course name: Teaching Methodology and Pedagogy				
Course type, sco Course type: Le Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study perio	ours):				
Number of ECT	S credits: 5					
Recommended s	emester/trimes	ster of the cours	e: 1.			
Course level: II.						
Prerequisities:						
Conditions for c	ourse completi	on:				
Learning outcon	nes:					
Brief outline of t	the course:					
Recommended li	iterature:					
Course language	2:					
Notes:						
Course assessme Total number of		ts: 947				
А	В	С	D	Е	FX	
24.08	27.98	26.19	14.68	6.55	0.53	
Provides: doc. Pa	aedDr. Renáta C	Drosová, PhD., M	Igr. Zuzana Vaga	ská, PhD.		
Date of last mod	ification: 18.09	0.2024				
Approved: prof. profesor, prof. RN	•		. RNDr. Marcel U	Jhrin, PhD., univ	verzitný	

	rik University in Košice
Faculty: Faculty of So	cience
Course ID: KPPaPZ/UPR/15	Course name: The Art of Aiding by Verbal Exchange
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	ce rse-load (hours): dy period: 28
Number of ECTS cre	
Recommended semes	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
points 20; minimum r 3. Final test in the ran points 20; minimum r presentation and the te The evaluation of the set requirements, which ensure an objective an	age of 20 questions from selected chapters and lectures. Maximum number of number of points 11. The final evaluation (mark) is the sum of points for the est. A 40b - 37b B 36b - 33b C 32b - 29b D 28b - 25b E 24b - 21b FX 20b - 0b course and its subsequent completion will be based on clearly and objectively ch will be set in advance and will not change. The aim of the assessment is to nd fair mapping of the student's knowledge while adhering to all ethical and re is no tolerance for students' fraudulent behavior, whether in the teaching
clarify orders. Reflect The student is able to helping conversation. The student is able to	demonstrate an understanding of the theoretical principles of conducting a

Psychological preparation for conducting an interview. Self-reflection of one's own possibilities, abilities to lead a conversation, to help. Possibilities of helping with conversations from the point of view of selected psychological approaches. Systematic approach to helping. Interview and professional ways to help and control. Objectivist and constructivist framework of conversation in theory and practice. Is it possible to help with control? Opening the interview, negotiating the course, course, ending the interview. Constructivist questions in the interview. Analysis of individual phases of conducting the interview. Reflex team possibilities of help in conversation. Models of reflective teams. Model situations of conducting an interview with a group. Professional possibilities, advantages and pitfalls of solving problems with an individual, with a group.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 199

А	В	С	D	Е	FX
90.95	3.02	4.52	1.01	0.5	0.0

Provides: Mgr. Ondrej Kalina, PhD.

Date of last modification: 10.02.2025

v	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ ZOG1/03	Course name: Zoogeography			
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 28			
Number of ECTS cr	redits: 6			
Recommended seme	ester/trimester of the course: 1., 3.			
Course level: I., II.				
Prerequisities:				
	-			
	e subject is to get knowledge on the basic reasons of recent distribution of the , zoogeographic regionalization of the Earth's surface and human influence on n in the history.			
processes that influe information on the h	course: iew our current understanding of the patterns of animal distribution and the nce distributions of species and their attributes. Zoogeography will integrate distorical and current ecology, genetics, and physiology of animals and their rironmental processes (continental drift, climate) in regulating geographic			

distributions. The course will emphasize descriptive and analytical approaches useful in hypothesis testing in zoogeography and will illustrate applied aspects of zoogeography (e.g. refuge design in

conservation).

Recommended literature:

Buchar, J., 1983: Zoogeografie. SPN Praha

Darlington, P.J., 1998: Zoogeography: The geographical distribution of animals. Krieger, USA Lomolino M.V., Brown J.H., Riddle B. R., 2005: Biogeography. Sinauer Associates, 1-845 Plesník, P., Zatkalík, F., 1996: Biogeografia. Vysokoškolské skriptá, PríFUK Bratislava

Course language:

Notes:

Course assessn		ta. 1022			
Total number o	f assessed studer	lls: 1055			
А	В	C	D	Е	FX
25.56	23.14	23.43	18.49	7.74	1.65
Provides: prof. docentka	RNDr. Ľubomír	Kováč, CSc., RN	NDr. Natália Rasc	hmanová, PhD.,	univerzitná
Date of last mo	dification: 10.12	2.2021			
	f. PhDr. Ol'ga Or NDr. Stanislav l		. RNDr. Marcel U	Jhrin, PhD., univ	verzitný