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23. International conference abroad.	
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27. Local journal	
28. Logic	
29. Member of the internal project team.	
30. Membership in a conference organizing committee	
31. Methods of computational learning and artificial intelligence	
32. Methods of computer and network security analysis	
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35. Monograph	
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39. Patents, inventions, and software	
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University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ PfMRI/19	Course name: Advanced fMRI data Analysis
Course type, scope a Course type: Lectur Recommended cou Per week: 3 Per stu Course method: pro	re rse-load (hours): Idy period: 42
Number of ECTS cr	edits: 9
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Midterm exam. Proje	se completion: ect Final exam consisting of written and/or oral part.
Learning outcomes: Skills necessary for a	upplication of advanced computational tools to fMRI data analysis.
	nodeling earning n Analysis: A neuroscientific perspective n analysis v/s Univariate set on analysis /sis
pattern analysis of ne 2016. doi:10.3389/fn Connolly, A. C., Gur H., and Haxby, J. V. Neuroscience, 32(8): Haxby, J. V., Gobbin	nnolly, A. C., and Haxby, J. V. CoSMoMVPA: multi-modal multivariate euroimaging data in Matlab / GNU Octave. Frontiers in Neuroinformatics, inf.2016.00027. htupalli, J. S., Gors, J., Hanke, M., Halchenko, Y. O., Wu, Y. C., Abdi, The Representation of Biological Classes in the Human Brain. Journal of 2608–2618, February 2012. i, M. I., Furey, M. L., Ishai, A., Schouten, J. L., and Pietrini, P. Distributed esentations of faces and objects in ventral temporal cortex. Science,
Course language: English	
U U	

Course assessment Total number of assessed students: 1	
abs	n
100.0	0.0
Provides: doc. Ing. Norbert Kopčo, PhD., univer	zitný profesor, doc. RNDr. Jozef Jirásek, PhD.
Date of last modification: 11.11.2021	
Approved: prof. RNDr. Stanislav Krajči, PhD.	

University: P. J. Šafărik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ COK/22 Course name: Certified training course Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Completion of a certified professional/training course. Learning outcomes: The PhD student acquires up-to-date scientific knowledge, develops the capa work and familiarizes himself with the methodologies of making scientific kit He confronts his own knowledge and skills with other course participants, deve peer discussion in the given scientific field. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 1 abs n 100.0 Provides: 0.0		ik University in Košice	
Course ID: ÚINF/ COK/22 Course name: Certified training course Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Perweek: Per study period: Course method: present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Pererequisities: Conditions for course completion: Completion of a certified professional/training course. Conditions for course completion: Completion of a certified professional/training course. Learning outcomes: The PhD student acquires up-to-date scientific knowledge, develops the capa work and familiarizes himself with the methodologies of making scientific ki He confronts his own knowledge and skills with other course participants, developeer discussion in the given scientific field. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 1 abs n 100.0			
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Course type: Recommended course-load (hours): Per week: Per study period: Course method: present Number of ECTS credits: 4 Recommended semester/trimester of the course: Course level: III. Prerequisities: Conditions for course completion: Completion of a certified professional/training course. Learning outcomes: The PhD student acquires up-to-date scientific knowledge, develops the capa work and familiarizes himself with the methodologies of making scientific kn He confronts his own knowledge and skills with other course participants, developeer discussion in the given scientific field. Brief outline of the course: Recommended literature: Course language: Notes: Notes: Course assessment 100.0 0.0		Course name: Certified tr	raining course
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Course level: III. Prerequisities: Conditions for course completion: Completion of a certified professional/training course. Learning outcomes: The PhD student acquires up-to-date scientific knowledge, develops the capa work and familiarizes himself with the methodologies of making scientific knowledge and skills with other course participants, developer discussion in the given scientific field. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 1 abs n 100.0 0.0	Number of ECTS cre	edits: 4	
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Conditions for course completion: Completion of a certified professional/training course. Learning outcomes: The PhD student acquires up-to-date scientific knowledge, develops the capa work and familiarizes himself with the methodologies of making scientific knowledge and skills with other course participants, developer discussion in the given scientific field. Brief outline of the course: Recommended literature: Course language: Notes: Course assessment Total number of assessed students: 1 abs n 100.0 0.0	Course level: III.		
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Course language: Notes: Course assessment Total number of assessed students: 1 abs n 100.0 0.0	Learning outcomes: The PhD student acq work and familiarizes He confronts his own	uires up-to-date scientific l s himself with the methodo knowledge and skills with	knowledge, develops the capabilities of scientific of scientific knowledge available a
Notes: Course assessment Total number of assessed students: 1 abs n 100.0 0.0	Learning outcomes: The PhD student acq work and familiarizes He confronts his own peer discussion in the	uires up-to-date scientific l s himself with the methodo knowledge and skills with given scientific field.	knowledge, develops the capabilities of scientific of scientific knowledge available a
Course assessment Total number of assessed students: 1 abs n 100.0 0.0	Learning outcomes: The PhD student acq work and familiarizes He confronts his own peer discussion in the Brief outline of the co	uires up-to-date scientific l s himself with the methodo knowledge and skills with given scientific field.	knowledge, develops the capabilities of scientific of scientific knowledge available a
Total number of assessed students: 1 abs 100.0	Learning outcomes: The PhD student acq work and familiarizes He confronts his own peer discussion in the Brief outline of the co Recommended litera	uires up-to-date scientific l s himself with the methodo knowledge and skills with given scientific field.	knowledge, develops the capabilities of scientific of scientific knowledge available a
100.0 0.0	Learning outcomes: The PhD student acq work and familiarizes He confronts his own peer discussion in the Brief outline of the co Recommended litera Course language:	uires up-to-date scientific l s himself with the methodo knowledge and skills with given scientific field.	knowledge, develops the capabilities of scientific of scientific knowledge available a
	Learning outcomes: The PhD student acquest work and familiarizes He confronts his own peer discussion in the Brief outline of the construction Recommended litera Course language: Notes: Course assessment	uires up-to-date scientific l s himself with the methodo knowledge and skills with given scientific field. ourse: ture:	knowledge, develops the capabilities of scientific of scientific knowledge available a
Provides:	Learning outcomes: The PhD student acquest work and familiarizes He confronts his own peer discussion in the Brief outline of the construction Recommended litera Course language: Notes: Course assessment	uires up-to-date scientific les himself with the methodo knowledge and skills with given scientific field. Durse: ture:	knowledge, develops the capabilities of scientific ologies of making scientific knowledge available other course participants, develops the abilities o
I I V TIMUDI	Learning outcomes: The PhD student acquest work and familiarizes He confronts his own peer discussion in the Brief outline of the construction Recommended litera Course language: Notes: Course assessment Total number of asses	uires up-to-date scientific les himself with the methodo knowledge and skills with given scientific field.	knowledge, develops the capabilities of scientific ologies of making scientific knowledge available other course participants, develops the abilities of
Date of last modification: 08.11.2022	Learning outcomes: The PhD student acquest work and familiarizes He confronts his own peer discussion in the Brief outline of the construction Recommended litera Course language: Notes: Course assessment Total number of asses	uires up-to-date scientific les himself with the methodo knowledge and skills with given scientific field.	knowledge, develops the capabilities of scientific ologies of making scientific knowledge available other course participants, develops the abilities of
Approved: prof. RNDr. Stanislav Krajči, PhD.	Learning outcomes: The PhD student acq work and familiarizes He confronts his own peer discussion in the Brief outline of the co Recommended litera Course language: Notes: Course assessment Total number of asses	uires up-to-date scientific les himself with the methodo knowledge and skills with given scientific field. Durse: ture: sed students: 1 abs 100.0	knowledge, develops the capabilities of scientific ologies of making scientific knowledge available other course participants, develops the abilities of

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ CZC/22	Course name: Citation in	n international scientific journal
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cr		
Recommended seme	ster/trimester of the cour	'se:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation in a	e completion: foreign scientific journal	
researched field, bas problem in such a wa source demonstrates	ed on the ability to formula that generates new know the competence to comr ific knowledge, at the high	very well-founded scientific knowledge in the alate research questions, to reflect on a scientific wledge. At the same time, a citation in an indexed nunicate new knowledge, which is a significant test expert level.
Recommended litera	ture:	
Course language:		
Notes: Course assessment Total number of asse	ssed students: 13 abs	n
	100.0	0.0
Provides:	100.0	0.0
Date of last modifica	tion: 09 11 2022	
Approved: prot. RNI	Dr. Stanislav Krajči, PhD.	

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ CDC/22	Course name: Citation in	local scientific journal
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 2	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Citation in a national	-	
researched field, bas problem in such a wa source demonstrates	ed on the ability to formul ay that generates new know the competence to comm tific knowledge, at the highe	very well-founded scientific knowledge in the late research questions, to reflect on a scientific ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant est expert level.
Differ outline of the C	.ouise.	
D	. 4	
Recommended litera	ature:	
Course language:	nture:	
	ssed students: 1 abs	n
Course language: Notes: Course assessment	ssed students: 1	n 0.0
Course language: Notes: Course assessment	ssed students: 1 abs	
Course language: Notes: Course assessment Total number of asse	ssed students: 1 abs 100.0	

University: P. J. Šafái	rik University in Košice	
Faculty: Faculty of So	cience	
Course ID: ÚINF/ CM/22	Course name: Citation i	n monograph
Course type, scope an Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cro	edits: 8	
Recommended seme	ster/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation regi	e completion: istered in SCI or Scopus.	
researched field, base problem in such a wa source demonstrates	ed on the ability to form by that generates new kno the competence to com ific knowledge, at the hig	I very well-founded scientific knowledge in the ulate research questions, to reflect on a scientific wledge. At the same time, a citation in an indexed municate new knowledge, which is a significant hest expert level.
Recommended litera	ture:	
Course language:		
Notes: Course assessment Total number of asses	ssed students: 0	
	abs	n
	0.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ SPAV/22	Course name: Co-investig	gator of the applied research project
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: 5	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Co-investigator of th	se completion: e applied research project	
to the solution of the tasks. By solving an objective according own activities with c	e project objective of applied applied research project, 1 to the established procedure colleagues, to participate in t	cipate in teamwork, to bring his own contribution d research and to take responsibility for assigned he acquires the ability to implement the project , to follow the project schedule, to coordinate his he creation of applied research outputs. The PhD cal course of a grant project with a focus on applied
Brief outline of the o	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 0	1
	abs	n
0.0 0.0		
	0.0	0:0
Provides:	0.0	0.0
Provides: Date of last modific:		

	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ SDPR/22	Course name: Co-work	er of a local project
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): dy period:	
Number of ECTS cr	redits: 10	
Recommended seme	ester/trimester of the cou	ırse:
Course level: III.		
Prerequisities:		
Conditions for cour Co-investigator of th	-	
The PhD student den	nonstrates the ability to pa	articipate in teamwork, to bring his own contribution
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co	he project objective and project, he acquires the ocedure, to follow the pro- ipate in the creation of o purse of the grant project.	articipate in teamwork, to bring his own contribution to take responsibility for the assigned tasks. By ability to implement the project intention according bject schedule, to coordinate his own activities with utputs. The PhD student gains valuable experience
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co Brief outline of the o	he project objective and e project, he acquires the ocedure, to follow the pro- ipate in the creation of o purse of the grant project.	to take responsibility for the assigned tasks. By ability to implement the project intention according oject schedule, to coordinate his own activities with
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co	he project objective and e project, he acquires the ocedure, to follow the pro- ipate in the creation of o purse of the grant project.	to take responsibility for the assigned tasks. By ability to implement the project intention according oject schedule, to coordinate his own activities with
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co Brief outline of the o Recommended liters Course language:	he project objective and e project, he acquires the ocedure, to follow the pro- ipate in the creation of o purse of the grant project.	to take responsibility for the assigned tasks. By ability to implement the project intention according oject schedule, to coordinate his own activities with
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co Brief outline of the o Recommended liter	he project objective and e project, he acquires the ocedure, to follow the pro- ipate in the creation of o purse of the grant project.	to take responsibility for the assigned tasks. By ability to implement the project intention according oject schedule, to coordinate his own activities with
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co Brief outline of the o Recommended liters Course language:	he project objective and c project, he acquires the ocedure, to follow the pro- ipate in the creation of o ourse of the grant project. course: ature:	to take responsibility for the assigned tasks. By ability to implement the project intention according oject schedule, to coordinate his own activities with
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co Brief outline of the o Recommended liter: Course language: Notes: Course assessment	he project objective and c project, he acquires the ocedure, to follow the pro- ipate in the creation of o ourse of the grant project. course: ature:	to take responsibility for the assigned tasks. By ability to implement the project intention according oject schedule, to coordinate his own activities with
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co Brief outline of the o Recommended liter: Course language: Notes: Course assessment	he project objective and e project, he acquires the ocedure, to follow the pro- ipate in the creation of o ourse of the grant project. course: ature:	to take responsibility for the assigned tasks. By ability to implement the project intention according oject schedule, to coordinate his own activities with utputs. The PhD student gains valuable experience
to the solution of t solving the domestic to the established pro- colleagues, to partic from the practical co Brief outline of the o Recommended liter: Course language: Notes: Course assessment	he project objective and e project, he acquires the ocedure, to follow the pro- ipate in the creation of o ourse of the grant project. course: ature: essed students: 36 abs	n
to the solution of t solving the domestic to the established pri- colleagues, to partic from the practical co Brief outline of the o Recommended liter: Course language: Notes: Course assessment Total number of asse	he project objective and e project, he acquires the ocedure, to follow the pro- ipate in the creation of o ourse of the grant project. course: ature: essed students: 36 abs 100.0	n

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ SMPR/15	Course name: Co-worker	of an international project
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 15	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Membership in the re	e completion: esearch team of an internation	nal project.
Learning outcomes:		
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 26	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	
Approved: prof. RNI	Dr. Stanislav Krajči, PhD.	

University: P. J. Šafán	ik University in Košice
Faculty: Faculty of Seculty	cience
Course ID: ÚINF/ VYMD/15	Course name: Computational complexity and models
Course type, scope an Course type: Lectur Recommended cour Per week: 2 Per stue Course method: pre	e se-load (hours): dy period: 28
Number of ECTS cro	edits: 9
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Written test combined	e completion: I with an oral examination.
-	d backgroung in the area of efficient computations, computational complexity nental time and space complexity classes, hardest complete problems, and ong problems.
 machines, RAM and E 2. Basic complexity EXPSPACE. 3. P versus NP, L verse 4. Polynomial time and problems. 5. NP-completenss of 6. Variants of SAT, pr 7. Other NP-complete salesman problem. 8. Subexponential det balancing. Restricted 9. Space complexity of 10. Problems complete Boolean formulas (QU) 	I space complexity, basic computational models: single- and multi-tape Turing RASP models, unit and logarithmic costs. classes: L, NL, P, NP, PSPACE, NPSPACE, EXPTIME, NEXPTIME sus NL. Examples of complete problems in these classes. d logarithmic space reducibilities, definition and basic properties of complete the Boolean formula satisfiability (SAT). oblems related to graph coloring. problems: vertex cover, Hamiltionian paths, subset sum, balancing, traveling erministic solutions for selected NP-complete problems: planar 3-colorability variants with more efficient solutions. elasses: Savitch theorem, inductive counting. te for NL, P, and PSPACE: graph accessibily (GAP), circuit-value, quantified BF). mslation theorems for time and space.

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

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

S. Arora, B. Barak: Computational Complexity: A Modern Approach, Cambridge Univ. Pess, 2009.

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.

G.Brassard, P.Bradley: Fundamentals of algorithmics, Prentice Hall, 1996.

Ch. H. Papadimitriou: Computational Complexity, Addison-Wesley, 1994.

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

Course language:

Slovak or english

Notes:

Content prerequisity: Basic knowlegde in the area of formal languages, automata theory, and programming.

programming.	
Course assessment	
Total number of assessed students: 30	
Ν	Р
0.0	100.0
Provides: prof. RNDr. Viliam Geffert, DrSc.	
Date of last modification: 23.11.2021	
Approved: prof. RNDr. Stanislav Krajči, PhD.	

University: P. J. Šafán	rik University in Koši	ice		
Faculty: Faculty of Science				
Course ID: ÚINF/ Course name: Cryptology				
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	e ·se-load (hours): dy period: 28			
Number of ECTS cr	edits: 9			
Recommended seme	ster/trimester of the	course:		
Course level: III.				
Prerequisities:				
Conditions for cours Witten and oral exam	1			
	hic systems and cryp	rd methods of computer algebra and know how they can boanalytic methods. To know current trends of research		
	nputational algebra etic of eliptic curve	- rings of polynoms, cyclic groups, factorization of s. Actual problems of symmetric and nonsymmetric		
2. STINSON, D. R. : 3. MEZENES, A.,. va Press, 1996	ementary Number The Cryptography. Theor In Oorschot, P., Vanst	eory and Its Applications, Addison Wesley, 2000 y and Practie, CRC Press, 2002 tone, S.: Handbook of Applied Cryptography, CRC Elliptic Curves in Cryptography, CUP 1999		
Course language: Slovak or English				
Notes:				
Course assessment Total number of asses	ssed students: 6			
N P				
	0.0 100.0			
Provides: doc. RNDr.	Jozef Jirásek, PhD.			
Date of last modifica	tion: 23.11.2021			

University: P. J. Šafár	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚINF/ SDSD/15	Course name: Data and signal processing				
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	e rse-load (hours): dy period: 28				
Number of ECTS cr	edits: 8				
Recommended seme	ster/trimester of the course:				
Course level: III.					
Prerequisities:					
Conditions for cours The ability to formula Project. Oral exam.	e completion: ate a problem in the acquired terminology and solve it within a project.				
signal processing and the types of stochasti	n of the course, the doctoral student will master the most relevant methods of l corresponding software. He will be able to explain the differences between c data models and thus analyze and simulate data, determine the scheme or attributes and obtain information.				
 Random processes Markov chains, Ma Stationary processed Martingales, Wiene Fourier transformation Wavelet analysis. Filtration, Kalman Modeling, Goodne Mutual information Nonparametric estimated scatterplot 	and time series, Moving average, ARIMA processes. arkov Chains Monte Carlo - MCMC. es and correlation function. er process and SDE. tion, FFT, Fourier series. filter. ss of fit tests; Likelihood and Bayesian principle. n, Fisher information, Akaike criterion. estimation and approximation: Nadaraya-Watson kernel, Loess(locally smoothing). ne and penalization, Multivariate adaptive regression spline (MARS),				
R.H. Shumway, D.S. Springer, 2017, ISBN Ch. J. Geyer, Bayesia www.stat.umn.edu/ge	ction to Stochastic Processes with R, Wiley, 2016, ISBN 978-1-118-74065-1 Stoffer, Time Series Analysis and Its Applications, Examples with R,				

Ch. K. Chui, G. Chen, Kalman Filtering, Spring Cs. Török, HP. Bernhard, Wavelet Shrinkage a JINR, Dubna, Russia, 1999 Nonparametric Regression Smoothers in R, http notes.html#simple-smoothers-in-r J. S. Simonoff, Smoothing Methods in Statistics	and Mutual Information, Communications of p://users.stat.umn.edu/~helwig/notes/smooth-		
Course language: Slovak or English			
Notes:			
Course assessment Total number of assessed students: 11			
N	Р		
0.0	100.0		
Provides: doc. RNDr. Csaba Török, CSc.			
Date of last modification: 23.11.2021			
Approved: prof. RNDr. Stanislav Krajči, PhD.			

	irik University in Košice
Faculty: Faculty of S	
Course ID: ÚINF/ ODZP/15	Course name: Defence of diploma thesis
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ły period:
Number of ECTS cr	redits: 30
Recommended seme	ester/trimester of the course:
Course level: III.	
Prerequisities:	
of academic fraud a Decision no. 21/202 University in Košice	se completion: is is the result of the student's own scientific research. It must not show elements nd must meet the criteria of good research practice defined in the Rector's 1, which lays down the rules for assessing plagiarism at Pavol Jozef Šafárik and its components. Fulfillment of the criteria is verified mainly in the process the process of thesis defense. Failure to do so is reason for disciplinary action
mastery of the theory	is has the character of a scientific work and the student demonstrates extensive and professional terminology of the field of study, acquisition of knowledge
program, as well as t student demonstrates ethical. Further detai	he ability to apply them creatively in solving selected scientific problem. The s the ability of independent scientific work in terms of content, formal and
program, as well as t student demonstrates ethical. Further detai requirements of final Brief outline of the o 1. Elaboration of the 2, Presentation of the	course: dissertation thesis in accordance with the instructions of the supervisor. e results of the dissertation thesis before the examination commission. ons from oponents and questions related to the topic of the dissertation thesis
program, as well as t student demonstrates ethical. Further detail requirements of final Brief outline of the o 1. Elaboration of the 2, Presentation of the 3. Answering question within the discussion Recommended liters	he ability to apply them creatively in solving selected scientific problem. The s the ability of independent scientific work in terms of content, formal and ls on the dissetation thesis are determined by Directive no. 1/2011 on the basic l theses and the Study Regulations of UPJŠ in Košice for doctoral studies. course: dissertation thesis in accordance with the instructions of the supervisor. e results of the dissertation thesis before the examination commission. ons from oponents and questions related to the topic of the dissertation thesis h.
program, as well as t student demonstrates ethical. Further detail requirements of final Brief outline of the o 1. Elaboration of the 2, Presentation of the 3. Answering question within the discussion Recommended liters The recommended liters	he ability to apply them creatively in solving selected scientific problem. The s the ability of independent scientific work in terms of content, formal and ls on the dissetation thesis are determined by Directive no. 1/2011 on the basic theses and the Study Regulations of UPJŠ in Košice for doctoral studies. course: dissertation thesis in accordance with the instructions of the supervisor. e results of the dissertation thesis before the examination commission. ons from oponents and questions related to the topic of the dissertation thesis ature:

Course assessment Total number of assessed students: 19	
N	Р
5.26	94.74
Provides:	·
Date of last modification: 11.01.2022	
Approved: prof. RNDr. Stanislav Krajči, PhD.	

University: P. J. Šaf	árik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚINF/ DZS/15				
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:			
Number of ECTS c	redits: 20		_	
Recommended sem	ester/trimester of the cour	'se:		
Course level: III.				
Prerequisities:				
Conditions for cour	se completion:			
Learning outcomes	:			
Brief outline of the	course:			
Recommended liter	ature:			
Course language:				
Notes:				
Course assessment Total number of ass	essed students: 33			
N P				
0.0 100.0				
Provides:				
Date of last modific	ation:			
Approved: prof. RN	Dr. Stanislav Krajči, PhD.			

	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚINF/ VPZP/22	Course name: Elaborati	ion of reviewer report		
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: 3			
Recommended seme	ester/trimester of the cou	ırse:		
Course level: III.				
Prerequisities:				
Conditions for cours Elaboration of review	-			
well as knowledge of assess a professional	a wide range of methods a l problem and its propos solution. He applies kno ield.	entifically based knowledge in the field of study, as and approaches. Demonstrates the ability to critically sed solution, as well as to evaluate it and possibly owledge and skills from the field of pedagogical		
Differ outline of the C				
Recommended liter	sture.			
Recommended litera	ature:			
Course language:	ature:			
	ssed students: 15			
Course language: Notes: Course assessment	ssed students: 15 abs	n		
Course language: Notes: Course assessment Total number of asse	ssed students: 15	n 0.0		
Course language: Notes: Course assessment Total number of asse Provides:	ssed students: 15 abs 100.0			
Course language: Notes: Course assessment Total number of asse Provides: Date of last modifica	ssed students: 15 abs 100.0	0.0		

University: P. J. Šafárik University in Košice
Faculty: Faculty of Science
Course ID: CJP/ Course name: English Language for PhD Students 1 AJD1/07
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present
Number of ECTS credits: 2
Recommended semester/trimester of the course: 1.
Course level: III.
Prerequisities:
Conditions for course completion: Completion of e-course English for PhD Students (lms.upjs.sk), consultations (1-3). Written assignments - Professional/Academic CV, Short Academic Biography.
Learning outcomes: The development of students' language skills - reading, writing, listening, speaking; improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects; development of pragmatic competence - students acquire skills for effective and purposeful communication, with focus on Academic English and English for specific/professional purposes, level B2.
Brief outline of the course: Specific aspects of academic and professional English with focus on correct pronunciation, vocabulary development (noun and verb collocations, phrasal verbs, prepositional phrases, word-formation, formal/informal language, etc.), selected aspects of English grammar (prepositions, grammar tenses, passive voice, etc.), academic writing (professional/academic CV, Short Academic Biography).
Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí – cvičebnica. Košice, Vydavateľstvo ŠafárikPress, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. Štepánek, L., J. De Haff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s., 2011. Armer, T.: Cambridge English for Scientists. CUP, 2011. Ims.upjs.sk
Course language: English, level B2 according to CEFR

Course assessment Total number of assessed students: 813						
N	Ne	Р	Pr	abs	neabs	
0.0 0.0 43.79 0.0 56.09 0.12						
Provides: Mgr. Zuzana Kolaříková, PhD.						
Date of last modification: 06.09.2024						
Approved: prof. RNDr. Stanislav Krajči, PhD.						

LD2/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list). English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. <t< th=""><th></th><th>COURSE INFORMATION LETTER</th></t<>		COURSE INFORMATION LETTER
Course ID: CJP/ (JD2/07 Course name: English Language for PhD Students 2 Course type, scope and the method: Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Yumber of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Acarning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional surposes, level B2. Strief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolafiková, Z., Pe	University: P. J. Šafá	rik University in Košice
LD2/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Number of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list). English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. <t< th=""><th>Faculty: Faculty of S</th><th>cience</th></t<>	Faculty: Faculty of S	cience
Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: distance, present Wumber of ECTS credits: 3 Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS)	Course ID: CJP/ AJD2/07	Course name: English Language for PhD Students 2
Recommended semester/trimester of the course: 2. Course level: III. Prerequisities: Conditions for course completion: Test, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) cearning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolafiková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. UpJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafařikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP,	Course type: Practic Recommended cour Per week: 2 Per stu	ce rse-load (hours): ıdy period: 28
Course level: III. Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠaťaříkPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Number of ECTS cr	redits: 3
Prerequisities: Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Learning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional burposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Recommended seme	ester/trimester of the course: 2.
Conditions for course completion: Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) .carning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Course level: III.	
 Fest, oral exam in accordance with the exam requirements (available at the web-site of the LTC and in MS TEAMS) Fearning outcomes: The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional burposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008. 	Prerequisities:	
The development of students' language skills - reading, writing, listening, speaking, improvement of their linguistic competence - students acquire knowledge of selected phonological, lexical and syntactic aspects, development of pragmatic competence - students can efectively use the anguage for a given purpose, with focus on Academic English and English for specific/professional purposes, level B2. Brief outline of the course: Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development (formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafařikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.		-
Academic communication (self-presentation, presenting at scientific meetings and conferences). Specific aspects of academic and professional English with focus on vocabulary development formality, academic word-list), English grammar (passive voice, nominalisatio), language functions (expressing opinion, cause/effect, presenting arguments, giving examples, describing graphs/charts/schemes, etc.). Cross-language interference. Recommended literature: Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021.	The development of a of their linguistic co and syntactic aspects	students' language skills - reading, writing, listening, speaking, improvement ompetence - students acquire knowledge of selected phonological, lexical s, development of pragmatic competence - students can efectively use the
Moore, J.: Oxford Academic Vocabulary Practice. OUP, 2017. Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Fomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021.	Academic communic Specific aspects of a (formality, academic functions (expressing	cation (self-presentation, presenting at scientific meetings and conferences). academic and professional English with focus on vocabulary development c word-list), English grammar (passive voice, nominalisatio), language g opinion, cause/effect, presenting arguments, giving examples, describing
Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2021. Tomaščíková, S., Rozenfeld, J. Developing Academic English in Speaking and Writing. Vydavateľstvo ŠafárikPress, 2021. McCarthy, M., O'Dell, F.: Academic Vocabulary in Use. CUP, 2008.	Recommended litera	ature:
	Kolaříková, Z., Petru UPJŠ Košice, 2021. Tomaščíková, S., Roz Vydavateľstvo Šafári McCarthy, M., O'De Štepánek, L., J. De H 2011.	nňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). zenfeld, J. Developing Academic English in Speaking and Writing. ikPress, 2021. II, F.: Academic Vocabulary in Use. CUP, 2008. Iaff a kol.: Academic English-Akademická angličtina. Grada Publishing, a.s.,
Course language: B2 level according to CEFR	Course language: B2 level according to	o CEFR
	Notes:	

Course assessment Total number of assessed students: 776					
N	Ne	Р	Pr	abs	neabs
0.26	0.0	94.07	1.03	4.51	0.13
Provides: Mgr. Zuzana Kolaříková, PhD., Mgr. Ivana Kupková, PhD.					
Date of last modification: 03.02.2025					
Approved: prof. RNDr. Stanislav Krajči, PhD.					

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚINF/ FKAD/15	1 5		
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 credits: 8			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
-	during the semester. tive mastery of theoretical a	and practical aspects of the issue and an overview on, in the form of an oral exam, are evaluated.	
		features of formal conceptual analysis as one of ationship to other data-mining methods.	
-	nceptual lattices. cept lattices. nalysis in terms of category t al concept analysis to other o	-	
Kluwer Academic/Pl ISBN 0-306-46777-1 2. GANTER B, WILL	Radim. Fuzzy relational syst enum Publishers, [2002]. In LE R.: Formal Concept Ana	tems: foundations and principles. New York: ternational federation for systems research. lysis: Foundations and Applications, Lecture er-Verlag, ISBN 3-540-27891-5, 2005	
Course language: Slovak or English			
Notes: Prerequisites: Logic			
Course assessment Total number of asses	Course assessment Total number of assessed students: 1		
	Ν	Р	

Provides: doc. RNDr. Ondrej Krídlo, PhD.

Date of last modification: 23.11.2021

Approved: prof. RNDr. Stanislav Krajči, PhD.

University. D. I. Čatá	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚINF/ AFJD/15	Course name: Formal languages and finite-state automata
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): Idy period: 28
Number of ECTS cr	edits: 9
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Written test combined	se completion: d with an oral examinationi.
	d about efficient representation of regular languages and finite state automata, nection between automata and complexity theory.
nondeterministic, alt Regular expressions between finite state complexity for recog	Flanguages and grammars. Finite state automata and its variants: deterministic, ternating, probabilistic, quantum one-way, two-way, reversal bounded. and grammars. Unary regular languages and their properties. Connection automata and complexity theory. Pushdown automata, time and space gnition of context-free languages. Closure properties of contex-free, context-vely enumerable languages.
of automata. J.E. Hopcroft, R.Mot computation, Addisor J. Shallit: A second c 2009. M. Sipser: Introduction D.P.Bovet, P.Crescen J.van Leeuwen (ed.):	cations on the topic, especially those related to the descriptional complexity wani, J.D. Ullman: Introduction to automata theory, languages, and
Course language: Slovak or English	
Notes: Content prerequisites graph theory.	Basic knowledge in the area of automata, formal languages, set theory, and

Course assessment Total number of assessed students: 14		
Ν	Р	
0.0 100.0		
Provides: prof. RNDr. Viliam Geffert, DrSc.		
Date of last modification: 23.11.2021		
Approved: prof. RNDr. Stanislav Krajči, PhD.		

University: P. J. Šaf	árik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚINF/ Course name: Installing of new experimental methods NEM/15			
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	urse-load (hours): dy period: resent		
Number of ECTS c			
	ester/trimester of the co	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 5		
abs n			
	100.0 0.0		
Provides:			
Date of last modific	ation: 03.05.2015		
Approved: prof. RN	Dr. Stanislav Krajči, PhI).	

University: P. J. Šafárik University in Košice			
Faculty: Faculty of	Science		
Course ID: ÚINF/ ZC/22	Course name: International Journal		
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	ırse-load (hours): dy period:		
Number of ECTS c	redits: 8		
Recommended sem	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cour Publication accepted	r se completion: d in a foreign journal as an au	uthor/co-author.	
level of ability to ide He demonstrates the applying them critic an innovative way, a according to the high	entify, evaluate, and apply co e ability to reflect on a scien ally. He demonstrates the co as well as to generate new or nest qualitative and ethical sta	/co-author, the PhD student demonstrates a high rrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas.	
Brief outline of the course:			
Recommended liter	ature:		
Course language:	Course language:		
Notes:			
Course assessment Total number of ass	essed students: 1		
	abs	n	
	100.0	0.0	
Provides:			
Provides: Date of last modific	ation: 08.11.2022		

E	arik University in Ko	sice
Faculty: Faculty of S	Science	
Course ID: ÚINF/ ZSP1/22	Course name: International Study Stay less than 30 Days	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 5	
Recommended seme	ester/trimester of th	e course:
Course level: III.		
Prerequisities:		
Conditions for cours Completion of a fore	-	g less than 30 days.
		hl) student demonstrates the ability to reflect on research
problems and work of while being able to g in more than one lang in a group with the air of research, to practio	critically with source generate new knowled guage. He acts as a res m of pushing the bou ce and to the wider p	hD student demonstrates the ability to reflect on research es at an expert level and in an interdisciplinary context, dge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas public. He can competently argue and explain his ideas.
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the c	critically with source generate new knowled guage. He acts as a res m of pushing the bou ce and to the wider p course:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera	critically with source generate new knowled guage. He acts as a res m of pushing the bou ce and to the wider p course:	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the of Recommended litera Course language:	critically with source generate new knowled guage. He acts as a res m of pushing the bou ce and to the wider p course:	es at an expert level and in an interdisciplinary context, dge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera	critically with source generate new knowled guage. He acts as a res m of pushing the bou ce and to the wider p course: ature:	es at an expert level and in an interdisciplinary context, dge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the of Recommended litera Course language: Notes: Course assessment	critically with source generate new knowled guage. He acts as a res m of pushing the bou ce and to the wider p course: ature:	es at an expert level and in an interdisciplinary context, dge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas
problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the of Recommended litera Course language: Notes: Course assessment	critically with source generate new knowled guage. He acts as a resource m of pushing the bou ce and to the wider p course: ature:	es at an expert level and in an interdisciplinary context, dge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas public. He can competently argue and explain his ideas.
problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the of Recommended litera Course language: Notes: Course assessment	critically with source generate new knowled guage. He acts as a resomn of pushing the bou ce and to the wider p course: ature: essed students: 8 abs	es at an expert level and in an interdisciplinary context, lge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas public. He can competently argue and explain his ideas.
problems and work of while being able to g in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	critically with source generate new knowled guage. He acts as a resomn of pushing the bouce and to the wider p course: ature: essed students: 8 abs 100.0	es at an expert level and in an interdisciplinary context, dge. He is able to actively communicate at an expert level sponsible independent scientist, works independently and ndaries of knowledge and transferring them to other areas public. He can competently argue and explain his ideas.

·	rik University in Košice	
Faculty: Faculty of S		
Course ID: ÚINF/ ZSP2/22		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:	
Number of ECTS cr	edits: 10	
Recommended seme	ster/trimester of the co	ourse:
Course level: III.		
Prerequisities: ÚINF	5/ZSP/15	
Conditions for cours Completion of a fore	se completion: ign study stay lasting mo	ore than 30 days.
		dent demonstrates the ability to reflect on research
By completing the sproblems and work of while being able to go in more than one lang in a group with the air of research, to praction	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi	dent demonstrates the ability to reflect on research t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas ic. He can competently argue and explain his ideas.
By completing the sproblems and work of while being able to go in more than one lang in a group with the air of research, to practice Brief outline of the c	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course:	t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas
By completing the sproblems and work of while being able to g in more than one lang in a group with the air of research, to practice Brief outline of the c Recommended litera	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course:	t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas
By completing the sproblems and work of while being able to go in more than one lang in a group with the air of research, to practic Brief outline of the c Recommended litera Course language:	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course:	t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to go in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera Course language: Notes:	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course:	t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to go in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera Course language:	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course: ature: ssed students: 1	t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to g in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera Course language: Notes: Course assessment	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course: ature:	t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas
By completing the s problems and work of while being able to go in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course: ature: ssed students: 1	t an expert level and in an interdisciplinary context, He is able to actively communicate at an expert level nsible independent scientist, works independently and ries of knowledge and transferring them to other areas ic. He can competently argue and explain his ideas.
By completing the s problems and work of while being able to go in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course: ature: ssed students: 1 abs	n n n n
By completing the s problems and work of while being able to go in more than one lang in a group with the air of research, to praction Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asse	critically with sources a enerate new knowledge. guage. He acts as a respon m of pushing the bounda ce and to the wider publi course: ature: ssed students: 1 abs 100.0	n n n n

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ MKZ/22	Course name: International conference abroad	
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: 10	
Recommended seme	ester/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cours Active participation	se completion: in an international conferen	ce abroad.
demonstrates a high research methodolog scientific problem b competence to use e	level of ability to identify, gy in his scientific field. He by using the latest approac xisting theories and concep- nowledge and communicate	scientific conference abroad, the phD student evaluate, and apply correct scientific methods or e demonstrates the ability to reflect on a specific shes and applying them critically. Demonstrates ots in an innovative way, as well as generate new research results to a wider audience by adequate
Brief outline of the course:		
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 14	
	essed students: 14 abs	n
		n 0.0
	abs	
Total number of asse	abs 100.0	

University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience	
Course ID: ÚINF/ Course name: Introduction to fMRI Data Analysis ZMRI/18		
Course type, scope a Course type: Lectur Recommended cou Per week: 3 Per stu Course method: pre	re rse-load (hours): Idy period: 42	
Number of ECTS cr	edits: 9	
Recommended seme	ester/trimester of the course: 4.	
Course level: III.		
Prerequisities:		
Conditions for cours Midterm exam. Proje Final exam consisting	-	
studies. Lectures are	the background necessary for designing, conducting, and interpreting fMRI formatted as advanced seminars, combined with hands-on labs. The course asic neuroscience concepts necessary.	
 Design methods for Workflows for modeling Workflows for data Analysis methods Analysis using ICA Computational modeling Parametric and none Integrating function Tools: FreeSurfer diffusion MRI data 	or stimulus-driven and task-driven fMRI experiments. or resting-state fMRI experiments and other types. del-based analysis methods. a-driven analysis methods. using MVPA. A and graph theory. odeling. n-parametric statistics. onal MRI with PET / EEG / MEG. c, FSL.	
Recommended litera Poldrack R.: Handbo ISBN-13: 978-05215	ok of Functional MRI Data Analysis. Cambridge University Press. 2011.	
Course language:		

Notes:

Course assessment Total number of assessed students: 3		
abs	n	
100.0 0.0		
Provides: doc. Ing. Norbert Kopčo, PhD., univerzitný profesor		
Date of last modification: 23.11.2021		
Approved: prof. RNDr. Stanislav Krajči, PhD.		

University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	Science	
Course ID: ÚINF/ DK/15	Course name: Local conference	
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: 2	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Active participation	se completion: in the home conference	
degree of ability to id in his scientific field using the latest appro- theories and concept	dentify, evaluate, and apply co d. He demonstrates the abili baches and applying them crit s in an innovative way, as we	conference, the PhD student demonstrates a high prrect scientific methods or research methodology ty to reflect on a specific scientific problem by ically. Demonstrates competence in using existing Il as generating new original scientific knowledge audience using adequate means and through the
Brief outline of the course:		
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 32	
	abs	n
	100.0	0.0
Provides:		
Date of last modific	ation: 08.11.2022	

- · · · · · · · · · · · · · · · · · · ·	rik University in Košice	
Faculty: Faculty of S		
Course ID: ÚINF/ DKZU/22	Course name: Local confe	erence with international participation
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: 5	
Recommended seme	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for course Active participation	se completion: in a national conference with	h foreign participation.
ability to identify, ev	valuate and apply correct of	• • • • • • • • • • • • • • • • • • • •
scientific field. He de latest approaches and and concepts in an	emonstrates the ability to re d applying them critically. I innovative way, as well as	cientific methods or research methodology in his flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and nee by adequate means and through Slovak or a
scientific field. He de latest approaches and and concepts in an communicate researce	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and
scientific field. He de latest approaches and and concepts in an communicate researce foreign language.	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and
scientific field. He de latest approaches and and concepts in an communicate researce foreign language. Brief outline of the c	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and
scientific field. He de latest approaches and and concepts in an communicate researce foreign language. Brief outline of the construction Recommended litera	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and
scientific field. He de latest approaches and and concepts in an communicate researce foreign language. Brief outline of the construction Recommended literation Course language:	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier course: ature:	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and
scientific field. He de latest approaches and and concepts in an communicate researce foreign language. Brief outline of the of Recommended liters Course language: Notes: Course assessment	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier course: ature:	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and
scientific field. He de latest approaches and and concepts in an communicate research foreign language. Brief outline of the of Recommended liters Course language: Notes: Course assessment	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier course: ature:	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and nee by adequate means and through Slovak or a
scientific field. He de latest approaches and and concepts in an communicate researce foreign language. Brief outline of the of Recommended liters Course language: Notes: Course assessment	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier course: ature: essed students: 22 abs	flect on a specific scientific problem by using the Demonstrates competence to use existing theories generate new original scientific knowledge and nee by adequate means and through Slovak or a
scientific field. He de latest approaches and and concepts in an in communicate research foreign language. Brief outline of the of Recommended liters Course language: Notes: Course assessment Total number of asse	emonstrates the ability to re d applying them critically. I innovative way, as well as ch results to a wider audier course: ature: essed students: 22 abs 100.0	n

	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ DC/22	Course name: Local journ	al
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 6	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	r se completion: d in a national journal as auth	or/co-author.
He demonstrates the applying them critic an innovative way, a according to the high	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new or nest qualitative and ethical sta	rrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas.
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
	essed students: 1	
Notes: Course assessment	essed students: 1 abs	n
Notes: Course assessment		n 0.0
Notes: Course assessment	abs	
Notes: Course assessment Total number of asse	abs 100.0	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ LOGD/15	Course name: Logic	
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 cr	edits: 9	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Satisfiable understand	e completion: ding of basic concepts.	
_		ogic (logic language, term, formula, axioms, proof, oundness, completeness) and ability to formalize
Axioms, proof, prova Interpretation, truth, r Correctness of the pro- Boolean algebras.	c language, syntax and sem ability. model. edicate logic. apleteness of predicate logic n general.	
Mathematical Logic,	., JUDAH H.: The Incomple A K Peters, Wellesley, Mas	eteness Phenomenon, A New Course in sachusetts, 1995 ndations of databases, Addison-Wesley
Course language: Slovak or English		
Notes:		
Course assessment Total number of asses	ssed students: 11	
	N	Р

Provides: prof. RNDr. Stanislav Krajči, PhD.

Date of last modification: 23.11.2021

Approved: prof. RNDr. Stanislav Krajči, PhD.

	ărik University in Koši	
Faculty: Faculty of	Science	
Course ID: ÚINF/ SIG/22	Course name: Mem	ber of the internal project team
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period:	
Number of ECTS c	redits: 3	
Recommended sem	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for coun Co-worker of project	1	l grant schemes (VVGS)
	monstrates the ability to	o participate in teamwork, to bring his own contribution
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project.	o participate in teamwork, to bring his own contribution within the internal grant system at UPJŠ. By solving ability to implement the project plan according to the t schedule, coordinate his own activities with colleagues, . The PhD student gains valuable experience from the
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course:	within the internal grant system at UPJŠ. By solving ability to implement the project plan according to the t schedule, coordinate his own activities with colleagues,
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the Recommended liter	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course:	within the internal grant system at UPJŠ. By solving ability to implement the project plan according to the t schedule, coordinate his own activities with colleagues,
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the Recommended liter Course language:	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course:	within the internal grant system at UPJŠ. By solving ability to implement the project plan according to the t schedule, coordinate his own activities with colleagues,
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the Recommended liter	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course: rature:	within the internal grant system at UPJŠ. By solving ability to implement the project plan according to the t schedule, coordinate his own activities with colleagues,
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the Recommended liter Course language: Notes:	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course: rature:	within the internal grant system at UPJŠ. By solving ability to implement the project plan according to the t schedule, coordinate his own activities with colleagues,
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the Recommended liter Course language: Notes: Course assessment	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course: rature: essed students: 5	within the internal grant system at UPJŠ. By solving ability to implement the project plan according to the t schedule, coordinate his own activities with colleagues, . The PhD student gains valuable experience from the
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the Recommended liter Course language: Notes: Course assessment	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course: rature: essed students: 5 abs	n
The PhD student der to the solution of t the internal VVGS established procedur and participate in th practical course of t Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of ass	monstrates the ability to the project objective v grant, he acquires the re, adhere to the project he creation of outputs. he grant project. course: rature: essed students: 5 abs 100.0	n

	arik University in Ko	ISICE
Faculty: Faculty of S	Science	
Course ID: ÚINF/ POVK/22	Course name: Me	mbership in a conference organizing committee
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: 3	
Recommended seme	ester/trimester of th	ie course:
Course level: III.		
Prerequisities:		
Conditions for cours Work in the organizi		conference
By working in the o	organizing committe	ee of the conference, the PhD student demonstrates the
abilities and compete to manage the implem in writing using vario	organizing committe ences to organize a so nentation in terms of ous technical means a	ee of the conference, the PhD student demonstrates the cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona ssary, correctly recommend solutions or make independen
By working in the or abilities and competer to manage the implem in writing using varior level with various typ decisions.	organizing committe ences to organize a so nentation in terms of ous technical means a bes of people, if neces	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of	organizing committe ences to organize a so nentation in terms of ous technical means a bes of people, if neces course:	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of Recommended literation	organizing committe ences to organize a so nentation in terms of ous technical means a bes of people, if neces course:	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using various level with various typ	organizing committe ences to organize a so nentation in terms of ous technical means a bes of people, if neces course:	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using vario level with various typ decisions. Brief outline of the of Recommended litera Course language: Notes:	organizing committe ences to organize a so nentation in terms of ous technical means a bes of people, if neces course: ature:	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of Recommended literat Course language: Notes: Course assessment	organizing committe ences to organize a so nentation in terms of ous technical means a bes of people, if neces course: ature:	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of Recommended literat Course language: Notes: Course assessment	ences to organize a so nentation in terms of ous technical means a bes of people, if neces course: ature:	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona ssary, correctly recommend solutions or make independen
By working in the or abilities and competer to manage the implem in writing using varior level with various typ decisions. Brief outline of the or Recommended literat Course language: Notes: Course assessment Total number of asse	ences to organize a so nentation in terms of ous technical means a bes of people, if neces course: ature: essed students: 21 abs	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona ssary, correctly recommend solutions or make independen
By working in the of abilities and compete to manage the implem in writing using various level with various typ decisions. Brief outline of the of Recommended literat Course language: Notes: Course assessment	ences to organize a so nentation in terms of ous technical means a bes of people, if neces course: ature: essed students: 21 abs 100.0	cientific or professional event independently or in a team time and content, to communicate effectively verbally and as needed, including in a foreign language at a professiona ssary, correctly recommend solutions or make independen

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ MUID/18	Course name: Methods of computational learning and artificial intelligence
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	e rse-load (hours): dy period: 28
Number of ECTS cr	edits: 9
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
	oject focused on methods of computational learning and artificial intelligence. n of the written and oral part of the exam focused on computational learning
	erimental data - examples, samples, measurements, records, or observations. ng structured human knowledge in the created systems - experience, expert
 Probabilistic Learn Efficient algorithm Efficient Algorithm Efficient Algorithm VC dimension CS224N: Introduct CS224N: Word ve language models CS224N: RNN and CS224N: RNN and CS224N: Machine CS224N: Convolution CS224N: Subwort CS224N: Context 	ses, learning algorithms, Boolean formulae and representations ing is I ins II tion and word vectors ctors and word senses Word window classification, NN, PyTorch, RNN and d language models Matrix calculus and BP, Linguistic structure dependency translation Seq2Seq and attention (L8) utional Networks for NLP (L11) d models (L12) tual word embeddings (L13): BERT ng contexts of use: Contextual representations and pretraining. ELMo, BERT
Recommended litera	
1997.	ggs: Computational Learning Theory, Cambridge University Press, 1991,
7 Lastrong CCOO And	Natural Longuage Dragoging with Deen Learning Stanford University

2. Lectures CS224n: Natural Language Processing with Deep Learning, Stanford University, 2019

- 3. A. P. Engelbrecht: Computational Intelligence, John Wiley & Sons, Ltd, 2005,
- 4. V. Kecman: Learning and Soft Computing, MIT Press, 2001
- 5. V. Mařík, a kol.: Umělá inteligence 4, Academia, Praha, 2003
- 6. P. Baldi, S. Brunak: Bioinformatics, MIT Press, 2001

Course language:

Slovak or English

Notes:

Course assessment

Total number of assessed students: 18

Ν	Р
0.0	100.0

Provides: doc. RNDr. L'ubomír Antoni, PhD., doc. RNDr. Gabriela Andrejková, CSc.

Date of last modification: 14.11.2021

Approved: prof. RNDr. Stanislav Krajči, PhD.

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ MABD/17	Course name: Methods of	computer and network security analysis
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	rre / Practice rrse-load (hours): • study period: 28 / 28	
Number of ECTS c	redits: 9	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes		
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 0	
	Ν	Р
	0.0	0.0
Provides: doc. RND	r. JUDr. Pavol Sokol, PhD. e	t PhD.
Date of last modific	ation: 11.09.2017	
Approved: prof. RN	Dr. Stanislav Krajči, PhD.	

University: P. J. Šafárik University in Košice		
Faculty: Faculty of S		
Course ID: ÚINF/ MBPD/15		and analysis of security protocols
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: 9		
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Written and oral exam	-	
and standard methods formal models and kr	s of attacks to them. To und	graphic authentication and certification schemes erstand the theoretical background of a design of ise them in practise. To know the actual problems graphic protocols.
of cryptographic prot	ertification schemes, key d ocols and methods for their	istribution and maintenance. Formal description analysis. Algebraic and logic methods for attack b. Datalog for automatic security verification.
Wesley, 2001 2. HUTH, M., RYAN CUP, 1999	CHNEIDER, S.A.: Modellir	ng and Analysis of Security Protocols, Addison ience - Modelling and Reasoning about Systems, ONE, S.: Handbook of Applied Cryptography,
Course language: Slovak or English		
Notes:		
Course assessment Total number of asses	ssed students: 4	
	Ν	Р
	0.0	100.0
Provides: doc. RNDr.	Jozef Jirásek, PhD.	
Date of last modifica	tion: 23.11.2021	

Approved: prof. RNDr. Stanislav Krajči, PhD.

Faculty: Faculty of S	loience
U	
Course ID: ÚINF/ MNID/15	Course name: Models of imperfect information
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): Idy period: 28
Number of ECTS cr	redits: 9
Recommended seme	ester/trimester of the course:
Course level: III.	
Prerequisities:	
the current state of re oral exam, are evalua Learning outcomes:	ative mastery of theoretical and practical aspects of the issue, an overview of esearch and open problems and further direction, in the form of a written and ated.
•	basic techniques in systems processing imperfect information to be able read
and write scientific p Brief outline of the c Belief and probabili artificial intelligence.	basic techniques in systems processing imperfect information to be able read apers in the area. course: ity, Dempster-Shaferova belief. Necessity and possibility. Uncertainty in
and write scientific p Brief outline of the c Belief and probabili artificial intelligence. Fuzzy sets, construct	basic techniques in systems processing imperfect information to be able read apers in the area. course: ity, Dempster-Shaferova belief. Necessity and possibility. Uncertainty in
and write scientific p Brief outline of the c Belief and probabili artificial intelligence. Fuzzy sets, construct Uncertainty in artifi revision. Recommended litera 1. PEARL J.: Probab Morgan – Kaufmann 2. JENSEN, F. V.: Art 3. DUBOIS, D., Prad	basic techniques in systems processing imperfect information to be able read apers in the area. course: ity, Dempster-Shaferova belief. Necessity and possibility. Uncertainty in ions of fuzzy sets from statistic data. icial intelligence, Markov and Bayesian networks, belief updating, belief

prerequisites: Logic

Course assessment Total number of assessed students: 2	
N	Р
0.0	100.0
Provides: doc. RNDr. Ondrej Krídlo, PhD.	
Date of last modification: 23.11.2021	
Approved: prof. RNDr. Stanislav Krajči, PhD.	

	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ MONB/22	Course name: Monograph	1
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:	
Number of ECTS cr	redits: 20	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Co-author of the mo	-	
to reflect on a scient demonstrates the con as to generate new of qualitative and ethic	tific problem by using the la mpetence to use existing the original scientific knowledge cal standards of the field. T	research methodology. It demonstrates the ability atest approaches and applying them critically. He cories and concepts in an innovative way, as well e, which he can publish according to the highest The doctoral student demonstrates the ability to gestions, to finalize his own ideas.
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Course language: Notes:		
0 0	essed students: 0	
Notes: Course assessment	essed students: 0 abs	n
Notes: Course assessment		n 0.0
Notes: Course assessment	abs	
Notes: Course assessment Total number of asse	abs 0.0	

University: P. J. Safa	irik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ MONA/22	Course name: Monograph	n in a renowned publishing house
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ły period:	
Number of ECTS cr	edits: 40	
Recommended sem	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cour Co-author of a mono	se completion: ograph in a renowned publis	hing house.
He demonstrates the applying them critic in an innovative wa publish according to	ability to reflect on a scier ally. He demonstrates the c y, as well as to generate n the highest qualitative and c	prrect scientific methods or research methodology. nutific problem by using the latest approaches and competence to use existing theories and concepts new original scientific knowledge, which he can ethical standards of the field. The doctoral student d respond to reviewers' suggestions, to finalize his
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 0	
	essed students: 0 abs	n
		n 0.0
	abs	
Total number of asse	abs 0.0	

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚINF/ NEK1/15	Course name: Neurocognition
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: 9
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Midterm exam. Proje Final exam consisting	1
Learning outcomes: Skills in quantitative their neural basis in t	analysis and modeling of neural data. Overview of cognitive functions and he human brain.
 Hearing and speec. Spatial hearing Auditory scene and Vision: Intro - path Binocular and spat Visual motion perce Sensory and motor Memory. Attention. Emotions, motival 	ransmission, CNS, experimental methods h: general intro alysis, "Cocktail party effect", informational masking. ways, perception, illusions. ial vision. reption. system. tion,conditioning and reinforcement learning
 2020. ISBN-13: 978- 2. Dayan P and LF A Modeling of Neural S 3. Thagard P: Mind: 978-0262701099 4. KANDEL, E. R., S McGraw-Hill, 2021 I 5. HERTZ, J., KROG 	un G., Gazzaniga M. (ed.): The Cognitive Neurosciences. 6th ed. MIT Press.

Course language: English	
Notes: Content prerequisities: programming, mathemati psychology	cs, basics of neurobiology and cognitive
Course assessment Total number of assessed students: 5	
Ν	Р
0.0	100.0
Provides: doc. Ing. Norbert Kopčo, PhD., univer	zitný profesor
Date of last modification: 23.11.2021	
Approved: prof. RNDr. Stanislav Krajči, PhD.	

University, D I Čatá		
University: P. J. Sala	rik University in Košice	
Faculty: Faculty of S	cience	
C ourse ID: ÚINF/ NRZ/22	Course name: Non-Revie	wed International or National Proceedings
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:	
Number of ECTS cro	edits: 2	
Recommended seme	ster/trimester of the cours	se:
Course level: III.		
Prerequisities:		
C onditions for cours A publication publish	1	gn or national journal as an author/co-author.
demonstrates the abi methodology. He der approaches and apply and concepts in an inr he can publish accor	lity to identify, evaluate, a nonstrates the ability to re- ring them critically. He den novative way, as well as to g ding to the highest qualita	nal journal as an author/co-author, the PhD student and apply correct scientific methods or research effect on a scientific problem by using the latest nonstrates the competence to use existing theories generate new original scientific knowledge, which tive and ethical standards of the field. The phD wn thoughts in a written speech.
Brief outline of the c	ourse:	
Recommended litera	ture:	
Course language:		
Notes:		
C ourse assessment Total number of asses	ssed students: 7	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	
Annroved: prof RNI	Dr. Stanislav Krajči, PhD.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ PVS/15	Course name: Patents, inv	entions, and software
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent	
Number of ECTS cr		
	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Patent filed, invention	e completion: n, software product created.	
	ionstrates the ability to creat interdisciplinary scale or in	e an innovative product in a given scientific field, technical practice
Brief outline of the c	ourse:	
Recommended litera	iture:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 11	
	abs	n
	100.0	0.0
Provides:		
Date of last modifica	tion: 08.11.2022	
Approved: prof. RNI	Dr. Stanislav Krajči, PhD.	

	rik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ POP/22	Course name: Popularisat	ion of science
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:	
Number of ECTS cr	redits: 5	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours	1	
Learning outcomes: Demonstrated ability	y to present science to the	lay public, use interactive methods of scientific
Learning outcomes: Demonstrated ability communication, iden professional knowled	y to present science to the ntify the target group and a	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the of Recommended liter	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the of Recommended liters Course language:	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course: ature:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the of Recommended liter: Course language: Notes: Course assessment	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course: ature:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the of Recommended liter: Course language: Notes: Course assessment	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course: ature:	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science.
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the of Recommended liter: Course language: Notes: Course assessment	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course: ature: essed students: 15 abs	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science. n
Learning outcomes: Demonstrated ability communication, iden professional knowled in the field of his sci Brief outline of the of Recommended liter: Course language: Notes: Course assessment Total number of asse	y to present science to the ntify the target group and ad lge. A PhD student is able to entific work, but also in the course: ature: essed students: 15 abs 100.0	lay public, use interactive methods of scientific dapt the communication language to the level of arouse interest and motivate specific target groups wider context of science. n

	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ VYS/22	Course name: Presentati	on of results in a seminar
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 5	
Recommended sem	ester/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cour Presentation at the s	-	
Learning outcomes		
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a	bating in the seminar, the correct scientific methods ility to reflect on a specific critically. Demonstrates cor as well as generating new idequate means and through	PhD student demonstrates the ability to identify, or research methodology in his field of study. He e scientific problem by using the latest approaches npetence in using existing theories and concepts in original scientific knowledge and communicating n Slovak or a foreign language.
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the	bating in the seminar, the correct scientific methods ility to reflect on a specific critically. Demonstrates cor as well as generating new idequate means and through course:	or research methodology in his field of study. He e scientific problem by using the latest approaches npetence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the Recommended liter	bating in the seminar, the correct scientific methods ility to reflect on a specific critically. Demonstrates cor as well as generating new idequate means and through course:	or research methodology in his field of study. He e scientific problem by using the latest approaches npetence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the Recommended liter Course language:	bating in the seminar, the correct scientific methods ility to reflect on a specific critically. Demonstrates cor as well as generating new idequate means and through course:	or research methodology in his field of study. He e scientific problem by using the latest approaches npetence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the Recommended liter	bating in the seminar, the correct scientific methods ility to reflect on a specific critically. Demonstrates cor as well as generating new idequate means and through course: rature:	or research methodology in his field of study. He e scientific problem by using the latest approaches npetence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the Recommended liter Course language: Notes: Course assessment	bating in the seminar, the correct scientific methods ility to reflect on a specific critically. Demonstrates cor as well as generating new idequate means and through course: rature:	or research methodology in his field of study. He e scientific problem by using the latest approaches npetence in using existing theories and concepts in original scientific knowledge and communicating
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the Recommended liter Course language: Notes: Course assessment	essed students: 68	or research methodology in his field of study. He e scientific problem by using the latest approaches npetence in using existing theories and concepts in original scientific knowledge and communicating n Slovak or a foreign language.
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the Recommended liter Course language: Notes: Course assessment	essed students: 68 abs	n
By actively particip evaluate, and apply demonstrates the ab and applying them of an innovative way, research results by a Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asse	essed students: 68 abs 100.0	n

	arik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ ZRIG/22	Course name: Principal inv	vestigator of an internal grant (VVGS)
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): dy period:	
Number of ECTS cr	edits: 10	
Recommended seme	ester/trimester of the course	:
Course level: III.		
Prerequisities:		
Conditions for cour Principal investigato	se completion: r of an internal grant (VVGS))
problem within the ir their time schedule, the internal VVGS g	nternal grant system at UPJŠ. A measurable outputs and adeq grant acquires the ability to in	ess a successful application for his own research Acquires skills with the design of research stages, quate distribution of funds. The very solution of mplement the project intention according to the
-	-	ving the set outputs. As a responsible researcher, management, its administration, and presentation
the PhD student acqu	ires competencies in project r	ving the set outputs. As a responsible researcher,
the PhD student acqu of results.	uires competencies in project n	ving the set outputs. As a responsible researcher,
the PhD student acqu of results. Brief outline of the o	uires competencies in project n	ving the set outputs. As a responsible researcher,
the PhD student acqu of results. Brief outline of the o Recommended litera	uires competencies in project n	ving the set outputs. As a responsible researcher,
the PhD student acqu of results. Brief outline of the of Recommended liters Course language:	ature:	ving the set outputs. As a responsible researcher,
the PhD student acqu of results. Brief outline of the of Recommended liter: Course language: Notes: Course assessment	ature:	ving the set outputs. As a responsible researcher,
the PhD student acqu of results. Brief outline of the of Recommended liter: Course language: Notes: Course assessment	ature:	ving the set outputs. As a responsible researcher, management, its administration, and presentation
the PhD student acqu of results. Brief outline of the of Recommended liter: Course language: Notes: Course assessment	ature:	n
the PhD student acqu of results. Brief outline of the of Recommended liter: Course language: Notes: Course assessment Total number of asse	ature: essed students: 2 abs 100.0	n

Faculty: Faculty of S	•
C ourse ID: ÚINF/ PAHD/15	Course name: Probabilistic and approximate algorithms
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: 9
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours Written test combined	e completion: d with an oral examination.
•	d backgroung in the area of probabilistic and approximation algorithms, with fication, efficiency, and probability of error.
 Las Vegas algorithm Two-sided error M 	wility theory. Basic probabilistic computational models. ms, One-sided error Monte Carlo algorithms. Tonte Carlo algorithms, with bounded and unbounded-error. es with polynomial time.
ISBN 3-540-23949-9 2. MOTWANI, R. and 1995. ISBN 0-521-47 3. MITZEMANCHEI and Probabilistic Ana 4. HROMKOVIČ, J.:	Design and analysis of ranodmized algorithms. Springer-Verlag, 2005. d RAGHAVAN, P.: Randomized Algorithms. Cambridge University Press 7465-5 R, M. and UPFAL, E.: Probability and Computing: Randomized Algorithms alysis. Cambridge University Press 2005. ISBN 0-521-83540 2 Communication Protocols - An Exemplary Study of the Power of adbook on Randomized Computing, P.Pardalos, S.Rajasekaran, J.Reif,

complexity, and programming.

Course assessment Total number of assessed students: 11	
N	Р
0.0	100.0
Provides: prof. RNDr. Viliam Geffert, DrSc., pro	f. RNDr. Gabriel Semanišin, PhD.
Date of last modification: 23.11.2021	
Approved: prof. RNDr. Stanislav Krajči, PhD.	

Easthern East 14		
Faculty: Faculty of S	Science	
Course ID: ÚINF/ Q1SA/22	Course name: Q1 journal	as co-author
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 30	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	rse completion: d in a journal of category Q1	as co-author.
		co-author, the PhD student demonstrates a high
He demonstrates the applying them critic an innovative way, a according to the high	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new ori nest qualitative and ethical sta	brrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas.
He demonstrates the applying them critic an innovative way, a according to the high	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new ori nest qualitative and ethical sta ly evaluate and respond to re	tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the Recommended liter	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new ori nest qualitative and ethical sta ly evaluate and respond to re course:	tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new ori nest qualitative and ethical sta ly evaluate and respond to re course:	tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the Recommended liter	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new ori nest qualitative and ethical sta ly evaluate and respond to re course:	tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the Recommended liter Course language:	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new ori nest qualitative and ethical sta ly evaluate and respond to re course:	tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the Recommended liter Course language: Notes: Course assessment	e ability to reflect on a scien ally. He demonstrates the con as well as to generate new ori nest qualitative and ethical sta ly evaluate and respond to re course:	tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the Recommended liter Course language: Notes: Course assessment	e ability to reflect on a scien ally. He demonstrates the con- nest qualitative and ethical sta ly evaluate and respond to re course: rature:	tific problem by using the latest approaches and mpetence to use existing theories and concepts in iginal scientific knowledge, which he can publish indards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas.
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the Recommended liter Course language: Notes: Course assessment	e ability to reflect on a scien ally. He demonstrates the con- nest qualitative and ethical sta- ly evaluate and respond to re course: rature: essed students: 2 abs	n
He demonstrates the applying them critic an innovative way, a according to the high the ability to critical Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asse	e ability to reflect on a scien ally. He demonstrates the con- nest qualitative and ethical sta- ly evaluate and respond to re course: rature: essed students: 2 abs 100.0	n

	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ Q11A/22	Course name: Q1 journal	as first or corresponding author
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 40	
Recommended sem	ester/trimester of the cours	se:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted		as first or corresponding author.
		ne first or corresponding author, the PhD student
or research methodo the latest approaches theories and concept which he can publis	blogy. He demonstrates the as s and applying them critically is in an innovative way, as we sh according to the highest of strates the ability to critically	by, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing ll as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
or research methodo the latest approaches theories and concept which he can publis PhD student demon	blogy. He demonstrates the as and applying them critically is in an innovative way, as we sh according to the highest of strates the ability to criticall deas.	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing ll as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
or research methodo the latest approaches theories and concept which he can publis PhD student demon to finalize his own io	blogy. He demonstrates the as and applying them critically is in an innovative way, as we sh according to the highest of strates the ability to criticall deas. course:	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing ll as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
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Foolty Foolty of		
Faculty: Faculty of S	Science	
Course ID: ÚINF/ Q2SA/22	Course name: Q2 journal	as co-author
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): ly period:	
Number of ECTS ci	redits: 20	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	se completion: in a journal of category Q2	as co-author.
		prrect scientific methods or research methodology. tific problem by using the latest approaches and
applying them critica an innovative way, a according to the high the ability to critical	ally. He demonstrates the constrates well as to generate new ori est qualitative and ethical states and respond to re	mpetence to use existing the fatest approaches and inpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas
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Ea aval4 C	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ Q21A/22	Course name: Q2 journal	as first or corresponding author
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period:	
Number of ECTS c	redits: 30	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	-	as first or corresponding author.
<i>, , , , , , , , , ,</i>	.	e first or corresponding author, the PhD student
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	arik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚINF/ Q3SA/22	Q3SA/22		
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period:		
Number of ECTS ci	redits: 15		
Recommended seme	ester/trimester of the cours	se:	
Course level: III.			
Prerequisities:			
Conditions for cour Publication accepted	se completion: in a journal of category Q3	as co-author	
degree of ability to id He demonstrates the applying them critica an innovative way, a according to the high	lentify, evaluate, and apply co e ability to reflect on a scier ally. He demonstrates the co s well as to generate new or est qualitative and ethical sta	co-author, the PhD student demonstrates a high orrect scientific methods or research methodology. ntific problem by using the latest approaches and ompetence to use existing theories and concepts in riginal scientific knowledge, which he can publish andards of the field. The PhD student demonstrates eviewers' suggestions, to finalize his own ideas	
Brief outline of the			
Recommended liter			
Recommended liter			
Recommended liter Course language:	ature:		
Recommended liter Course language: Notes: Course assessment	ature:	n	
Recommended liter Course language: Notes: Course assessment	ature: essed students: 0		
Recommended liter Course language: Notes: Course assessment	ature: essed students: 0 abs	n	
Recommended liter Course language: Notes: Course assessment Total number of asse	ature: essed students: 0 abs 0.0	n	

	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ Q31A/22	Course name: Q3 journal	as first or corresponding author
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period:	
Number of ECTS c	redits: 25	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted	1	as first or corresponding author
demonstrates a high	degree of ability to identify	
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University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ Q4SA/22	ISA/22	
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period:	
Number of ECTS cr	edits: 10	
Recommended seme	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Publication accepted	se completion: in a journal of category Q4	as co-author.
degree of ability to id He demonstrates the applying them critica an innovative way, a according to the high	entify, evaluate, and apply co ability to reflect on a scien ally. He demonstrates the con s well as to generate new ori est qualitative and ethical sta	co-author, the PhD student demonstrates a high prrect scientific methods or research methodology. tific problem by using the latest approaches and mpetence to use existing theories and concepts in ginal scientific knowledge, which he can publish ndards of the field. The PhD student demonstrates viewers' suggestions, to finalize his own ideas.
Brief outline of the o	course:	
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 0	
	abs	n
	0.0	0.0
Provides:		
Date of last modifica	ation: 08.11.2022	

Faculty: Faculty of S		
- acuity of a doutry of a	Science	
Course ID: ÚINF/ Q41A/22	Q41A/22	
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: 20	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour Publication accepted		as first or corresponding author.
demonstrates a high or research methodo	degree of ability to identify blogy. He demonstrates the a	e first or corresponding author, the PhD student y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using
theories and concept which he can publis	s in an innovative way, as wel sh according to the highest q strates the ability to critically	A. He demonstrates the competence to use existing l as to generate new original scientific knowledge, qualitative and ethical standards of the field. The average valuate and respond to reviewers' suggestions,
theories and concept which he can publis PhD student demons	s in an innovative way, as well sh according to the highest q strates the ability to critically deas.	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
theories and concept which he can publis PhD student demons to finalize his own io	s in an innovative way, as wells haccording to the highest questrates the ability to critically deas.	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The
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theories and concept which he can publis PhD student demons to finalize his own ic Brief outline of the o Recommended liter Course language: Notes: Course assessment Total number of asse	s in an innovative way, as well sh according to the highest q strates the ability to critically deas. course: rature: essed students: 0 abs 0.0	l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The v evaluate and respond to reviewers' suggestions,

University: P. J. Šafá	irik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ KVAD/15	Course name: Quantum al	gorithms
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pro	re Irse-load (hours): Idy period: 28	
Number of ECTS cr	edits: 8	
Recommended seme	ester/trimester of the course	e:
Course level: III.		
Prerequisities:		
Conditions for course oral exam	se completion:	
Learning outcomes: To learn how quantu cryptology.		or solving hard problems, in coding theory and in
search algorithm anf	n. Principles and power of q	quantum computing. Fast factorisation. Qunatum d problems. The class BQNP - an analogy of the hy.
2. HIRVENSALO, M 3. KITAEV, A.Y., SH American Mathemat 4. NIELSEN, M.A., Cambridge Universit 5. STEEB, W. H., H.	ntum Computing. McGraw-H A. Quantum Computing, Spri- HEN, A.H., VYVALYI, M.N ical Society, 2002. CHUANG, I.L. Quantum Co ty Press, 2000.	inger, 2004. Classical and Quantum Computation. Omputation and Quantum Information. Iutions in Quantum Computing And Quantum
Course language: Slovak or English		
Notes: Content prerequisitie		pace. Introduction to quantum mechanics.
Computational comp	nexity.	
Computational comp Course assessment		
Computational comp		р

Provides: prof. RNDr. Gabriel Semanišin, PhD.

Date of last modification: 23.11.2021

Approved: prof. RNDr. Stanislav Krajči, PhD.

	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ RZ/22	Course name: Rewieved i	nternational or local proceedings
Course type, scope Course type: Recommended cou Per week: Per stu Course method: p	urse-load (hours): dy period:	
Number of ECTS c	redits: 5	
Recommended sem	ester/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cour A publication publis	1	gn or national proceedings as an author/co-author.
	eer-reviewed foreign or nation	nal journal as an author/co-author, the PhD student
By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i	eer-reviewed foreign or nation a degree of ability to identify blogy. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas	hal journal as an author/co-author, the PhD student y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, pualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i Brief outline of the	eer-reviewed foreign or nation a degree of ability to identify blogy. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas course:	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing II as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
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By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i Brief outline of the	eer-reviewed foreign or nation a degree of ability to identify blogy. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas course:	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing II as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
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By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i Brief outline of the Recommended liter Course language:	eer-reviewed foreign or nation a degree of ability to identify ology. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas course:	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing II as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i Brief outline of the Recommended liter Course language: Notes: Course assessment	eer-reviewed foreign or nation a degree of ability to identify ology. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas course:	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing II as to generate new original scientific knowledge, qualitative and ethical standards of the field. The
By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i Brief outline of the Recommended liter Course language: Notes: Course assessment	eer-reviewed foreign or nation a degree of ability to identify ology. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas course: rature: essed students: 78	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i Brief outline of the Recommended liter Course language: Notes: Course assessment	eer-reviewed foreign or nation a degree of ability to identify ology. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas course: rature: essed students: 78 abs	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,
By publishing in a po- demonstrates a high or research methodo the latest approache theories and concept which he can publis PhD student demon to finalize his own i Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of ass	eer-reviewed foreign or nation a degree of ability to identify blogy. He demonstrates the a s and applying them critically ts in an innovative way, as well sh according to the highest of strates the ability to critically deas course: rature: essed students: 78 abs 100.0	y, evaluate, and apply correct scientific methods ability to reflect on a scientific problem by using y. He demonstrates the competence to use existing Il as to generate new original scientific knowledge, qualitative and ethical standards of the field. The y evaluate and respond to reviewers' suggestions,

Faculty: Faculty of S		
=	cience	
Course ID: ÚINF/ SCI/22		
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: 8	
Recommended seme	ster/trimester of the cours	e:
Course level: III.		
Prerequisities:		
Conditions for cours Obtained citation reg	se completion: istered in SCI or Scopus.	
•		very well-founded scientific knowledge in the
problem in such a was source demonstrates	ay that generates new know	ate research questions, to reflect on a scientific ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant est expert level.
problem in such a was source demonstrates	ay that generates new know the competence to comm tific knowledge, at the highe	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient	ay that generates new know the competence to comm tific knowledge, at the highe	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient Brief outline of the c	ay that generates new know the competence to comm tific knowledge, at the highe	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant
problem in such a wa source demonstrates contribution to scient Brief outline of the c Recommended litera	ay that generates new know the competence to comm tific knowledge, at the highe	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant
problem in such a was source demonstrates contribution to scient Brief outline of the c Recommended litera Course language:	ay that generates new know the competence to comm tific knowledge, at the highe course: nture:	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant
problem in such a was source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment	ay that generates new know the competence to comm tific knowledge, at the highe course: nture:	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant
problem in such a was source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ay that generates new know the competence to comm tific knowledge, at the highe course: nture: ssed students: 20	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant est expert level.
problem in such a was source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ay that generates new know the competence to comm tific knowledge, at the highe course: nture: ssed students: 20 abs	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant est expert level.
problem in such a was source demonstrates contribution to scient Brief outline of the c Recommended litera Course language: Notes: Course assessment Total number of asses	ay that generates new know the competence to comm tific knowledge, at the highe course: nture: ssed students: 20 abs 100.0	ledge. At the same time, a citation in an indexed unicate new knowledge, which is a significant est expert level.

University: P. J. Šafa	árik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚINF/ VPZ/22	Course name: Scientific work after sending to the editorial office		
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	ırse-load (hours): dy period:		
Number of ECTS cr	redits: 5		
Recommended sem	ester/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cour Scientific work after	se completion: being sent to the editorial of	fice as an author/co-author.	
demonstrates a high or research methodo the latest approaches theories and concept which he can publis	degree of ability to identify blogy. He demonstrates the a s and applying them critically s in an innovative way, as wel h according to the highest q	fic journal as an author/co-author, the PhD student y, evaluate, and apply correct scientific methods bility to reflect on a scientific problem by using y. He demonstrates the competence to use existing l as to generate new original scientific knowledge, ualitative and ethical standards of the field. The e his own ideas in a structured form.	
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 1		
	abs	n	
	100.0	0.0	
Provides:			
Date of last modific	ation: 08.11.2022		

Easulter East 14 CC	
Faculty: Faculty of S	
Course ID: ÚINF/ VKDD/15	Course name: Selected topics on numerical analysis and data mining
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pro	re irse-load (hours): idy period: 28
Number of ECTS cr	·edits: 8
Recommended seme	ester/trimester of the course:
Course level: III.	
Prerequisities:	
Conditions for cours The ability to formul Project. Oral exam.	se completion: late a problem in the acquired terminology and solve it within a project.
	method based on the analysis of requirements and principles of the considered and algorithm. The student will master suitable software for data processing and course:
	of Equations, QR, SVD and eigenfaces
4. Interpolation splin	2, B-splines, Uniform and non-uniform splines nes; 2D and 3D splines
6. Piecewise approxi7. Chebyshev nodes	
	n methods, Principal components Discriminant analysis
ISBN 0 521 81026 4	
V.A. Bloomfield, Us 2014, 978-1-4398-84	ing R for Numerical Analysis in Science and Engineering, Chapman & Hall,

T. Hastie, R. Tibshurani, J.H. Friedman, The Elements of Statistical Learning: Data Mining, Inference, and Prediction, Spinger, 2017, 978-0387848570

O. Jones, R. Maillardet, A. Robinson, Introduction to Scientific Programming and Simulation Using R, Chapman & Hall, 2nd Edition, 2014, 978-1-4665-7001-6

Course language: Slovak or English		
Notes:		
Course assessment Total number of assessed students: 2		
N	Р	
0.0 100.0		
Provides: doc. RNDr. Csaba Török, CSc.		
Date of last modification: 23.11.2021		
Approved: prof. RNDr. Stanislav Krajči, PhD.		

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S			
Course ID: ÚINF/ SOS1a/15	urse ID: ÚINF/ Course name: Special branch seminar		
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce rse-load (hours): ıdy period: 28		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the c	ourse: 1.	
Course level: III.			
Prerequisities:			
	ssing the course is a sur	mmary presentation of the student's results in the field offessional and scientific texts.	
latest knowledge foc		guidance to independent and creative extraction of the o the topic of the student's dissertation and continuous ly acquired knowledge.	
the dissertation,2. Presentation of ne			
Recommended liter Current professional		in the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asse	ssed students: 45		
	abs	n	
	100.0	0.0	
Provides: prof. RND	r. Viliam Geffert, DrSc.	., doc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modification	ation: 21.11.2021		
Approved: prof. RN	Dr. Stanislav Krajči, Ph	D.	

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S	Science		
Course ID: ÚINF/ SOS1b/15	1		
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce rse-load (hours): ıdy period: 28		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the c	ourse: 2.	
Course level: III.	-		
Prerequisities:			
-	ssing the course is a sur	nmary presentation of the student's results in the field fessional and scientific texts.	
latest knowledge foc		guidance to independent and creative extraction of the o the topic of the student's dissertation and continuous y acquired knowledge.	
the dissertation,2. Presentation of ne			
Recommended liter Current professional		in the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asse	essed students: 43		
	abs	n	
	100.0	0.0	
Provides: prof. RND	r. Viliam Geffert, DrSc.	, doc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modifica	ation: 21.11.2021		
Approved: prof. RN			

University: P. J. Šafá	rik University in Košic	ce	
Faculty: Faculty of S			
Course ID: ÚINF/ SOS2a/15	rse ID: ÚINF/ Course name: Special branch seminar		
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): Idy period: 28		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the o	course: 3.	
Course level: III.			
Prerequisities:			
	ssing the course is a su	mmary presentation of the student's results in the field ofessional and scientific texts.	
latest knowledge foc	used on issues related t	guidance to independent and creative extraction of the to the topic of the student's dissertation and continuous ly acquired knowledge.	
the dissertation,2. Presentation of net			
Recommended litera Current professional		e in the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asse	ssed students: 42		
	abs	n	
	100.0	0.0	
Provides: prof. RND	r. Viliam Geffert, DrSc	., doc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modifica	ation: 21.11.2021		
Approved: prof. RN	Dr. Stanialay, Kraiži, Dk		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS2b/15	: ÚINF/ Course name: Special branch seminar		
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): Idy period: 28		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the co	urse: 4.	
Course level: III.			
Prerequisities:			
	ssing the course is a sum	mary presentation of the student's results in the field essional and scientific texts.	
latest knowledge for		idance to independent and creative extraction of the the topic of the student's dissertation and continuous acquired knowledge.	
the dissertation,2. Presentation of new			
Recommended litera Current professional		n the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asse	ssed students: 41		
	abs	n	
	100.0	0.0	
Provides: prof. RND	r. Viliam Geffert, DrSc.,	doc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modifica	ntion: 21.11.2021		
Approved: prof. RN	Dr. Stanialay Vraiži DhD		

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS3a/15			
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): Idy period: 28		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the c	ourse: 5.	
Course level: III.			
Prerequisities:			
	ssing the course is a sur	nmary presentation of the student's results in the field fessional and scientific texts.	
latest knowledge foc		guidance to independent and creative extraction of the o the topic of the student's dissertation and continuous y acquired knowledge.	
the dissertation,2. Presentation of net			
Recommended litera Current professional		in the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asse	ssed students: 41		
	abs	n	
	100.0	0.0	
Provides: prof. RND	r. Viliam Geffert, DrSc.	, doc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modifica	ation: 21.11.2021		
Approved: prof. RN	Dr. Stanislav Krajči, Ph	D.	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS3b/15			
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: 5		
Recommended seme	ster/trimester of the cour	se: 6.	
Course level: III.			
Prerequisities:			
	-	ary presentation of the student's results in the field sional and scientific texts.	
latest knowledge focu		ance to independent and creative extraction of the e topic of the student's dissertation and continuous cquired knowledge.	
the dissertation,2. Presentation of new		tific texts focused on issues related to the topic of	
Recommended litera Current professional		the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asses	ssed students: 41		
	abs	n	
	100.0	0.0	
Provides: prof. RND	r. Viliam Geffert, DrSc., do	oc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modifica	tion: 21.11.2021		
Annroved prof RNI	Dr. Stanislav Krajči, PhD.		

University: P. J. Šafá	rik University in Košic	e	
Faculty: Faculty of S			
Course ID: ÚINF/ SOS4a/15	urse ID: ÚINF/ Course name: Special branch seminar		
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce rse-load (hours): ıdy period: 28		
Number of ECTS cr	redits: 5		
Recommended seme	ester/trimester of the c	ourse: 7.	
Course level: III.			
Prerequisities:			
	ssing the course is a sur	nmary presentation of the student's results in the field fessional and scientific texts.	
latest knowledge foc		guidance to independent and creative extraction of the o the topic of the student's dissertation and continuous y acquired knowledge.	
the dissertation,2. Presentation of ne			
Recommended liter Current professional		in the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asse	ssed students: 30		
	abs	n	
	100.0	0.0	
Provides: prof. RND	r. Viliam Geffert, DrSc.	, doc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modification	ation: 21.11.2021		
Approved: prof. RN	Dr. Stanislav Krajči, Ph	D.	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS4b/15			
Course type, scope a Course type: Practi- Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cou	rse: 8.	
Course level: III.			
Prerequisities:			
	ssing the course is a sumn	hary presentation of the student's results in the field ssional and scientific texts.	
latest knowledge for		dance to independent and creative extraction of the he topic of the student's dissertation and continuous acquired knowledge.	
the dissertation,2. Presentation of new		ntific texts focused on issues related to the topic of	
Recommended litera Current professional		the field of dissertation topic or related field.	
Course language: Slovak or English			
Notes:			
Course assessment Total number of asse	ssed students: 29		
	abs	n	
	100.0 0.0		
Provides: prof. RND	r. Viliam Geffert, DrSc., d	oc. RNDr. JUDr. Pavol Sokol, PhD. et PhD.	
Date of last modifica	tion: 21.11.2021		
Approved: prof. RN	Dr. Stanialary Knaiži DhD		

Faculty: Faculty of Science

Course ID: Dek. PF	Course name: Spring School for PhD Students
UPJŠ/JSD/14	

Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 4d

Course method: distance, present

Number of ECTS credits: 2

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Active participation in the Spring School of PhD students of UPJŠ.

Learning outcomes:

By actively participating in the Spring School of PhD Students of UPJŠ, the PhD student demonstrates a high level of ability to process the issues of his dissertation for a multidisciplinary audience with an emphasis on clarifying the motivation, scientific problem, processing methodology and own contribution to the solution of the selected topic. The PhD student demonstrates the ability to professionally discuss various research topics, present his own positions and accept a plurality of opinions. Demonstrates the ability to communicate research results to a wider professional audience with adequate means and through the Slovak language.

Brief outline of the course:

1. Interdisciplinary lectures from the fields of medicine, natural sciences, law, public affairs, humanities. Lecturers - top foreign or national experts from the mentioned fields.

2. Scientific lectures in sections created within related disciplines. Lecturers - top experts from UPJŠ from the mentioned fields.

3. Scientific contributions of PhD students in sections of related fields.

4. Panel discussions on the issue of PhD studies and current trends in the development of scientific disciplines at UPJŠ.

Recommended literature:

Proceedings of the Spring School of Doctoral Students.

Course language:

Notes:

Course assessment

Total number of assessed students: 203

abs	n
100.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 08.11.2022

Approved: prof. RNDr. Stanislav Krajči, PhD.

	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ VPSV/22	Course name: Supervisio	n of a students scientific work
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: 8	
Recommended seme	ster/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cours Supervision of Stude	se completion: nt's Scientific Activity	
By guiding a stude	nt within the SOČ or ŠV	OČ, the PhD student demonstrates broad and
scientifically based k and approaches. Dem solution, as well as to skills from the field o	nowledge in the field of stud constrates the ability to critic evaluate it and possibly pr of pedagogical sciences to h	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and
scientifically based k and approaches. Dem solution, as well as to skills from the field o Brief outline of the c	nowledge in the field of stud constrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course:	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and
scientifically based k and approaches. Dem solution, as well as to skills from the field o	nowledge in the field of stud constrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course:	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and
scientifically based k and approaches. Dem solution, as well as to skills from the field o Brief outline of the c	nowledge in the field of stud constrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course:	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and
scientifically based k and approaches. Dem solution, as well as to skills from the field of Brief outline of the o Recommended litera	nowledge in the field of stud constrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course:	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and
scientifically based k and approaches. Dem solution, as well as to skills from the field of Brief outline of the o Recommended litera Course language:	nowledge in the field of stud constrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course: ature:	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and
scientifically based k and approaches. Dem solution, as well as to skills from the field of Brief outline of the o Recommended litera Course language: Notes: Course assessment	nowledge in the field of stud constrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course: ature:	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and
scientifically based k and approaches. Dem solution, as well as to skills from the field of Brief outline of the o Recommended litera Course language: Notes: Course assessment	nowledge in the field of stud constrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course: ature: ssed students: 11	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and is own field.
scientifically based k and approaches. Dem solution, as well as to skills from the field of Brief outline of the o Recommended litera Course language: Notes: Course assessment	nowledge in the field of stud ionstrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course: ature: ssed students: 11 abs	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and is own field.
scientifically based ki and approaches. Dem solution, as well as to skills from the field of Brief outline of the of Recommended litera Course language: Notes: Course assessment Total number of asse	nowledge in the field of stud ionstrates the ability to critic o evaluate it and possibly pr of pedagogical sciences to h course: ature: ssed students: 11 abs 100.0	y, as well as knowledge of a wide range of methods ally assess a professional problem and its proposed opose another solution. He applies knowledge and is own field.

Faculty: Faculty of S	Science	
Course ID: ÚINF/ PPC1/22	Course name: Teac	hing activities 1 h/s
Course type, scope : Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 2	
Recommended sem	ester/trimester of the	e course:
Course level: III.		
Prerequisities:		
Conditions for cour Direct teaching activ	-	
Learning outcomes		udant domanstrates the ability to transfer and integrate
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and	al activity, the PhD st s own field of study d strategies of study g He is capable of desig current trends in higher digital competencies.	udent demonstrates the ability to transfer and integrate y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in highe digital competencies. course:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in highe digital competencies. course:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter Course language:	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in highe digital competencies. course:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in highe digital competencies. course: rature:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in highe digital competencies. course: rature:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. I in accordance with a communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature:	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. I in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD st is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature: essed students: 4 abs	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. The in accordance with a communication and Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asset	al activity, the PhD st is own field of study d strategies of study a He is capable of desig current trends in higher digital competencies. course: rature: essed students: 4 abs 100.0	y into education. He is able to select and apply the group management, higher education and evaluation of gning and implementing part of the educational process er education and the requirements placed on the level of

	ărik University in Košic	
Faculty: Faculty of	Science	
Course ID: ÚINF/ PPC2/22	Course name: Teachi	ing activities 2 h/s
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 4	
Recommended sem	ester/trimester of the c	course:
Course level: III.		
Prerequisities:		
Conditions for cour Direct teaching activ	rse completion: vity 2 semester hours	
Learning outcomes		dant domanstrates the chility to transfer and interests
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies.	dent demonstrates the ability to transfer and integrate into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the Recommended liter	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
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Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature: essed students: 12	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature: essed students: 12 abs	n
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asse	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature: essed students: 12 abs 100.0	n

E	ărik University in Koši	
Faculty: Faculty of	Science	
Course ID: ÚINF/ PPC3/22	Course name: Teach	hing activities 3 h/s
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 6	
Recommended sem	ester/trimester of the	course:
Course level: III.		
Prerequisities:		
Conditions for cour Direct teaching activ	rse completion: vity 3 semester hours	
Learning outcomes		adapt demonstrates the shility to transfer and integrate
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies.	indent demonstrates the ability to transfer and integrate into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process r education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies.	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the Recommended liter	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies.	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the Recommended liter Course language:	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies.	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the Recommended liter	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the roup management, higher education and evaluation of ning and implementing part of the educational process r education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature: essed students: 1 abs	n
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asse	al activity, the PhD stu is own field of study d strategies of study g He is capable of desig current trends in higher digital competencies. course: rature: essed students: 1 abs 100.0	n

	ărik University in Košic	
Faculty: Faculty of	Science	
Course ID: ÚINF/ PPC4/22	Course name: Teachi	ing activities 4 h/s
Course type, scope Course type: Recommended cou Per week: Per stu Course method: pr	ırse-load (hours): dy period:	
Number of ECTS c	redits: 8	
Recommended sem	ester/trimester of the c	course:
Course level: III.		
Prerequisities:		
Conditions for cour Direct teaching activ	rse completion: vity 4 semester hours	
Learning outcomes		
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies.	dent demonstrates the ability to transfer and integrate into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the Recommended liter	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the Recommended liter Course language:	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with communication and Brief outline of the Recommended liter	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature:	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature: essed students: 14	into education. He is able to select and apply the oup management, higher education and evaluation of ing and implementing part of the educational process education and the requirements placed on the level of
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with o communication and Brief outline of the Recommended liter Course language: Notes: Course assessment	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature: essed students: 14 abs	n
Through pedagogica knowledge from hi right techniques and learning outcomes. in accordance with a communication and Brief outline of the Recommended liter Course language: Notes: Course assessment Total number of asse	al activity, the PhD stud is own field of study d strategies of study gro He is capable of design current trends in higher digital competencies. course: rature: essed students: 14 abs 100.0	n

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚINF/ TNSD/15	Course name: Theoretical aspects of neural networks
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	e rse-load (hours): dy period: 28
Number of ECTS cr	edits: 9
Recommended seme	ster/trimester of the course:
Course level: III.	
Prerequisities:	
	e completion: dual work in the study of theoretical issues of neural networks - advanced tworks. Oral examination based on selected type of neural network.
	natical principles of neural networks and to know their capabilities. To be able f neural networks to solve some problems.
46. Probabilistic neu 79. Computational of machines, and Turing 1012. Approximation	complexity of neural networks. ural networks. capability of neural networks, a transformation of neural networks to Turing machines to neural networks. on of functions using neural networks. rem and its proof, theorems connected to Kolmogorov theorem.
2016. ISBN: 9780262 2. HERTZ, John, And computation. Redwoo complexity. ISBN 0-2 3. KVASNIČKA, Vla ISBN 80-88778-30-1 4. ŠÍMA, Jiří a Roma 1996. ISBN 80-85862 5. HASSOUN, M. H.	an, BENGIO Yoshua a Aaron COURVILLE. Deep Learning. MIT Press, 2035613. ders KROGH a Richard G. PALMER. Introduction to the theory of neural od City: CRC Press, [1991]. Santa Fe Institute studies in the sciences of 201-51560-1. adimír. Úvod do teórie neurónových sietí. [Slovenská republika]: IRIS, 1997. m NERUDA. Teoretické otázky neuronových sítí. Praha: MATFYZPRESS,
Course language: Slovak or English	
Notes:	

Course assessment Total number of assessed students: 30	
N	Р
0.0	100.0
Provides: doc. RNDr. Ľubomír Antoni, PhD., do	c. RNDr. Gabriela Andrejková, CSc.
Date of last modification: 20.09.2021	
Approved: prof. RNDr. Stanislav Krajči, PhD.	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ KZPR/22	Course name: Thesis cons	sultant	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): y period:		
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours Final thesis consultan	-		
knowledge in the fiel Demonstrates the ab well as to evaluate it	inal thesis, the PhD stude d of study, as well as knowl lity to critically assess a pr and possibly propose anoth- cal sciences to his own field	edge of a wide range of me ofessional problem and its er solution. He applies know	thods and approaches. proposed solution, as
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 7	1	
abs n			
	100.0	0.0	
Provides:			
Date of last modifica	tion: 08.11.2022		

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ VZP/22	Course name: Thesis sup	ervising
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: 8	
Recommended sem	ester/trimester of the cour	se:
Course level: III.		
Prerequisities:		
Conditions for cour Supervisor of the fin	-	
knowledge in the fie Demonstrates the ab well as to evaluate it the field of pedagog	Id of study, as well as know bility to critically assess a p and possibly propose anoth ical sciences to his own field	ent demonstrates broad and scientifically based ledge of a wide range of methods and approaches. rofessional problem and its proposed solution, as er solution. He applies knowledge and skills from d.
Brief outline of the		
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 16	
abs n		
	100.0	0.0
		J
Provides:		
Provides: Date of last modific	ation: 08.11.2022	