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	Modelling and analysis of security protocols.	
	Models of imperfect information.	
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	Obtaining of internal grant	
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	Psychology for University Lecturers.	
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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Algorithmically unsolvable problems **TZLD/15** 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 semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes:** To understand basic notions of algorithmically unsolvable problems, mutual reduction of problems and the grades of unsolvability. **Brief outline of the course:** Variants of halting problems and their algorithmical unsolvability. Undecidability of the theory of natural numbers, Goedel's a Tarski's theorem. Relationship between undecidability and completeness. Algorithmical unsolvability of some mathematical problems. Diofantesian equations and non-existence of an algorithm for existence of their solutions. Mutual reduction of problems and the grades of unsolvability. **Recommended literature:** 1. BARWISE, J. ed.: Handbook of mathematical logic, North Holland, 1977. 2. KLEENE, S. C.: Introduction to metamathematics, Van Nostrand, 1952. 3. MENDELSON, E.: Introduction to mathematical logic, Van Nostrand, 1963. 4. DAVIS, M.: Hilbert's tenth problem is unsolvable, Amer. Math. Monthly, 1973, pp.233-296. Course language: Notes: Course assessment Total number of assessed students: 1 P N 0.0 100.0 Provides: prof. RNDr. Stanislav Krajči, PhD. Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚINF/ SALD/15	Course name: Algorithms	on strings			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 0 Per study period: 28 / 0 Course method: present					
Number of ECTS cr					
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:	Notes:				
Course assessment Total number of assessed students: 7					
N P					
0.0 100.0					
Provides: doc. RNDr. Gabriela Andrejková, CSc.					
Date of last modification: 03.05.2015					
Approved:					

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of Science			
Course ID: ÚINF/ CZC/15			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of ECTS cr	edits: 10		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 11			
abs n			
100.0 0.0			
Provides:		•	
Date of last modifica	ition: 03.05.2015		
Approved:			

V			
University: P. J. Safá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ CDC/15			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cou	irse:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
	abs n		
0.0			
Provides:		·	
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚINF/ CM/15	Course name: Citation in	n monograph	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 20		
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 0			
abs n			
0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SDPR/15	The state of the s		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 65			
abs			
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚINF/ SMPR/15	Course name: Co-worke	r of an international project		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of ECTS cr	ster/trimester of the cou			
Course level: III.	ster/trimester of the cour	se:		
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 12				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚINF/ Course name: Computational complexity and models VYMD/15				
Course type, scope a Course type: Lectur Recommended cou Per week: 2 Per stu Course method: pre	re rse-load (hours): idy period: 28			
Number of ECTS cr	edits: 9			
Recommended seme	ester/trimester of the course:			
Course level: III.				
Prerequisities:				
Conditions for cours Written test combine	se completion: d with an oral examination.			
_	d backgroung in the area of efficient computations, computational complexity ndamental time and space complexity classes, hardest complete problems, and nong problems.			
complexity; determi NL, P, NP, PSPAC	models; relations among different models with respect to their computational nistic and nondeterministic computations; basic complexity classes - L, E, NPSPACE; reducibilities of problems; complete languages in basic ierarchy and translation theorems for time and space; relativization; alternating			
computation, Addiso M. Sipser: Introducti S. Arora, B. Barak: C 2009. C. Calude and J. Hro and A. Salomaa, Han G.Brassard, P.Bradle Ch. H. Papadimitriou	wani, J.D. Ullman: Introduction to automata theory, languages, and			
Course language:				

Notes:

Course assessment		
Total number of assessed students: 27		
N P		
0.0	100.0	
Provides: prof. RNDr. Viliam Geffert, DrSc.		
Date of last modification: 02.07.2021		
Approved:		

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Computer graphics and image processing PGOD/15 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of ECTS credits: 8 Recommended semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes:** To introduce the basic elements of the visual system, internal and external representations of an image, the image pre-processing methods and applications for surface visual inspection. **Brief outline of the course:** Introduction to computer vision. Collecting and storing images. Capturing and digitizing. Representation of the image - the image space. Color models. Multispectral images. Properties of digital images. Local operations. Global operations. Active contours. Segmentation. Texture, variety of symptoms. 3D reconstruction and visualization. Chaos and fractals. **Recommended literature:** 1. ŠONKA, P., HLAVÁČ, V., BOYLE: Image processing, Analysis and Machine Vision, 2nd edition, International Thomson Publishing Inc., 1999. 2. TURCEZAN, M., JAIN, A.K.: Texture analysis. The handbook of pattern recognition and computer vision. World Scientific Pub. Co., 1998. Course language: Notes: Course assessment Total number of assessed students: 9 N P 0.0 100.0 Provides: doc. RNDr. Csaba Török, CSc., doc. RNDr. Jozef Jirásek, PhD. Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚINF/ KRYD/15	51 25				
Course type: Lectur Recommended cou Per week: 2 Per stu	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	course:			
Course level: III.					
Prerequisities:					
Conditions for cours Witten and oral exam	-				
Learning outcomes: To learn theoretical background and standard methods of computer algebra and know how they can be used in cryptographic systems and cryptoanalytic methods. To know current trends of research in this area of computer science.					
Brief outline of the course: Special parts of computational algebra - rings of polynoms, cyclic groups, factorization of big numbers, arithmetic of eliptic curves. Actual problems of symmetric and nonsymmetric cryptography and cryptoanalysis.					
Recommended literature: 1. ROSEN, K. H.: Elementary Number Theory and Its Applications, Addison Wesley, 2000 2. STINSON, D. R.: Cryptography. Theory and Practie, CRC Press, 2002 3. MEZENES, A.,. van Oorschot, P., Vanstone, S.: Handbook of Applied Cryptography, CRC Press, 1996 4. BLAKE, I. F., Seroussi, G., Smart, N.P.: Elliptic Curves in Cryptography, CUP 1999					
Course language:					
Notes:	Notes:				
Course assessment Total number of asse	ssed students: 6				
	N	P			
	0.0 100.0				
Provides: prof. RND	r. Gabriel Semanišin, F	PhD., doc. RNDr. Jozef Jirásek, PhD.			
Date of last modifica	ntion: 03.05.2015				
Approved:					

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚINF/ SDSD/15				
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: 8			
Recommended seme	ster/trimester of the cour	se:		
Course level: III.	,			
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes: Mastering the basics	of data and signal processi	ng methods and appropriate software.		
The list of both applications based on advanced data and signal processing methods and the areas of their leveraging is continuously rising. The subject acquaints the students with the most significant methods for solution of tasks in signal processing and the appropriate software. It helps the students to understand random phenomena in science and technology and clarify the differences in data model types.				
Recommended literature: [1] Steven T. Karris, Signals and Systems with MATLAB, Orchard Publications, 2008 [2] Zarchan P., Fundamentals of Kalman Filtering, A Practical Approach, AIAA, 2005 [3] Mohinder S.G., Kalman filtering, Theory and Practice Using MATLAB, John Wiley & Sons, 2008 [4] CONGDON P., Bayesian Statistical Modelling, John Wiley & Sons, 2006 [5] Albert J., Bayesian Computation with R, Springer, 2009				
Course language:				
Notes:				
Course assessment Total number of assessed students: 8				
	N	P		
0.0 100.0				
Provides: doc. RNDr. Csaba Török, CSc.				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SIZD/15			
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): dy period: 28		
Number of ECTS cr	edits: 5		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes: Overview of stochast obtaining information		of processing data and signals, their modeling and	
data, classification of approximation, splin	of dependencies and statisf objects, parametric and no	tical models. Search schema and dependencies in inparametric methods, smoothing data, piecewise Discriminant, cluster, factor, Fourier and wavelet	
- S.Mallat, A Wavele	nture: nction To Machine Learning t Tour of Signal Processing, ká statistika, SNTL 1985		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 1		
	N	P	
	0.0 100.0		
Provides: doc. RNDr. Csaba Török, CSc.			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafa	árik University in Košic	ee		
Faculty: Faculty of S	Science			
Course ID: ÚINF/ ODZP/15	1			
Course type, scope and Course type: Recommended course recommended course method: pr	rse-load (hours): dy period: esent			
Number of ECTS ci				
	ester/trimester of the o	course:		
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: 15			
	N P			
	6.67 93.33			
Provides:		•		
Date of last modific	ation: 03.05.2015			
Approved:				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚINF/ PPC/15			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 184		
	abs n		
	98.91 1.09		
Provides: doc. RNDr. Gabriela Andrejková, CSc.			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ DZS/15				
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 cour	se:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	ture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 33			
	N P			
	0.0 100.0			
Provides:				
Date of last modifica	tion:			
Approved:				

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

AJD1/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 2

Recommended semester/trimester of the course: 1.

Course level: III.

Prerequisities:

Conditions for course completion:

Written assignments - professional CV, short academic biography (200-350 words).

distance mode of instruction using MS teams

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 654

N	Ne	P	Pr	abs	neabs
0.0	0.0	51.38	0.0	48.62	0.0

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

Date of last modification: 11.02.2021

Approved:

Page: 19

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ | Course name: English Language for PhD Students 2

AJD2/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of ECTS credits: 3

Recommended semester/trimester of the course: 2.

Course level: III.

Prerequisities:

Conditions for course completion:

Distance mode of instruction. Online consultations.

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

Learning outcomes:

Development of students' language skills, improvement of students' linguistic competencies (selected aspects of English pronunciation, vocabulary and syntax), development of students's pragmatic competence (selected aspects of functional grammar) with focus on English for academic and specific purposes. B2/C1 level of lanuage competence (according to CEFR.)

Brief outline of the course:

Specific aspecs of academic and professional English with focus on 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.), selected functional grammar (expressing opinion, cause/effect, arguments, examples, etc.). Academic communication. Cross-language interference.

Recommended literature:

Kolaříková, Z., Petruňová, H., Timková, R.: Angličtina v akademickom prostredí (cvičebnica). UPJŠ Košice, 2015

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

Blašková, K.: Handbook of English for Postgraduate Students. Vyd. SPRINT Bratislava, 2007

Dušková, L. a kol.: Hovorová angličtina pre vedeckých a odborných pracovníkov. Veda.

Bratislava, 1982

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

Porter, D.: Check your vocabulary for Academic English. Macmillan Publishers Limited, 2008

Oxford Collocations Dictionary for students of English. OUP, 2002

lms.upjs.sk

Course language:

B2/C1 level acc	B2/C1 level according to CEFR					
Notes:	Notes:					
Course assessment Total number of assessed students: 649						
N	Ne P Pr abs neabs					
0.31	0.31 0.0 93.07 1.23 5.39 0.0					
Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.						
Date of last modification: 10.02.2021						
Approved:						

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ FKAD/15				
Course method: pre	re / Practice rse-load (hours): study period: 28 / 0 esent			
Number of ECTS cr				
	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 0			
N P				
0.0				
Provides: prof. RND:	r. Stanislav Krajči, PhD.			
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
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): dy 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	te completion: d with an oral examinationi.
	w in the efficient representation of regular languages and finite state automata, aection between automata and complexity theory.
nondeterministic, alt Regular expressions between finite state complexity for recog	Clanguages 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 enition 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.): G.Brassard, P.Bradley	cations on the topic, especially those related to the descriptional complexity wani, J.D. Ullman: Introduction to automata theory, languages, and
Course languages	

Notes:

Course assessment			
Total number of assessed students: 14			
N P			
0.0	100.0		
Provides: prof. RNDr. Viliam Geffert, DrSc.			
Date of last modification: 02.07.2021			
Approved:			

University: P. J. Šafa	árik University in Košice			
Faculty: Faculty of S	Science			
Course ID: ÚINF/ NEM/15				
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): dy period: esent			
Number of ECTS ci				
	ester/trimester of the cou	rse:		
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: 3			
	abs n			
	100.0 0.0			
Provides:				
Date of last modific	ation: 03.05.2015			
Approved:				

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ MK/15				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:			
Number of ECTS cr	edits: 6			
Recommended seme	ster/trimester of the co	urse:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 74			
	abs			
97.3 2.7				
Provides:		-		
Date of last modifica	tion: 03.05.2015			
Approved:				

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ ZKC/15				
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: 20			
Recommended seme	ster/trimester of the cou	irse:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 21			
	abs			
100.0 0.0				
Provides:				
Date of last modifica	tion: 03.05.2015			
Approved:				

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ ZNC/15	D: ÚINF/ Course name: International non-currented journal		
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 cour	se:	
Course level: III.	Course level: III.		
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 12		
abs			
100.0 0.0			
Provides:		•	
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ Course name: International or local not-reviewed proceedings NZ/15			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 4		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 20		
	abs	n	
	100.0 0.0		
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ DK/15			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	Recommended semester/trimester of the course:		
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 28		
abs n			
100.0 0.0			
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	irik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ DKZU/15	The second secon	
Course type, scope a Course type: Recommended cou Per week: Per stue Course method: pr	rse-load (hours): ly period: esent	
Number of ECTS ci		
	ester/trimester of the cou	rse:
Course level: III.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes:		
Brief outline of the	course:	
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 44	
abs n		
100.0 0.0		
Provides:		
Date of last modification	ation: 03.05.2015	
Approved:		

University: P. J. Šafá	rik University in Košio	ce	
Faculty: Faculty of S	cience		
Course ID: ÚINF/ DKC/15	\boldsymbol{J}		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the	course:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 1		
abs n			
100.0 0.0			
Provides:		<u> </u>	
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košico	e
Faculty: Faculty of S	cience	
Course ID: ÚINF/ Course name: Local non-currented journal ONC/15		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent	
Number of ECTS cr		
	ster/trimester of the co	ourse:
Course level: III.		
Prerequisities:		
Conditions for course completion:		
Learning outcomes:		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 4	
abs n		
100.0 0.0		
Provides:		<u>'</u>
Date of last modifica	tion: 03.05.2015	
Approved:		

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Logic LOGD/15 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 semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes:** To understand basic notions of predicate logic (logic language, term, formula, axioms, proof, provability, truth, model, syntax and semantics, soundness, completeness) and to check student's ability to formalize concisely. **Brief outline of the course:** Predicate logic – logic language, syntax and semantics, term, formula. Axioms, proof, provability. Interpretation, truth, model. Correctness of the predicate logic. Boolean algebras. Syntactic model, completeness of predicate logic. Inductive structures in general. Aplications of logic in database systems. **Recommended literature:** 1. GOLDSTERN, M., JUDAH H.: The Incompleteness Phenomenon, A New Course in Mathematical Logic, A K Peters, Wellesley, Massachusetts, 1995 2. ABITEBOUL, S. HULL, R., VIANU, V.: Foundations of databases, Addison-Wesley Publishing Co, 1995 Course language: **Notes:** Course assessment Total number of assessed students: 11 N P 0.0 100.0 **Provides:** prof. RNDr. Stanislav Krajči, PhD.

Date of last modification: 03.05.2015

Approved:

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ POVK/15			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr			
	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 21		
abs n			
100.0 0.0			
Provides:			
Date of last modifica	ition: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Modelling and analysis of security protocols **MBPD/15** 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 semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion:** Written and oral exam. **Learning outcomes:** To learn essential properties of the used cryptographic authentication and certification schemes and standard methods of attacks to them. To understand the theoretical background of a design of formal models and know how it is possible to utilise them in practise. To know the actual problems concerning the analysis of the security of cryptographic protocols. **Brief outline of the course:** Authentication and certification schemes, key distribution and maintenance. Formal description of cryptographic protocols and methods for their analysis. Algebraic and logic methods for attack modelling, utilisation of dynamic logical systems. Datalog for automatic security verification. **Recommended literature:** 1. RYAN, P. Y. A., SCHNEIDER, S.A.: Modelling and Analysis of Security Protocols, Addison Wesley, 2001 2. HUTH, M., RYAN, M.: Logic in Computer Science - Modelling and Reasoning about Systems, 3. MENEZES, A., van OORSCHOT, P., VANSTONE, S.: Handbook of Applied Cryptography, CRC Press. 1996 Course language: **Notes:** Course assessment Total number of assessed students: 4 P N 0.0 100.0 Provides: prof. RNDr. Gabriel Semanišin, PhD., doc. RNDr. Jozef Jirásek, PhD.

Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Models of imperfect information **MNID/15** 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 semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes:** To give the students basic techniques in systems processing imperfect information to be able read and write scientific papers in the area. **Brief outline of the course:** Belief and probability, Dempster-Shaferova belief. Necessity and possibility. Uncertainty in artificial intelligence. Fuzzy sets, constructions of fuzzy sets from statistic data. Uncertainty in artificial intelligence, Markov and Bayesian networks, belief updating, belief revision. **Recommended literature:** 1. PEARL J.: Probabilistic Reasoning in Intelligent Systems: Networks of Plausible Inference, Morgan – Kaufmann, San Francisco, CA, 1988 2. JENSEN, F. V.: An Introduction to Bayesian networks, UCL Press, 1996 3. DUBOIS, D., Prade, H.: Possibility Theory. Plenum Press, N. York, 1988 4. PARIS, J. B.: The uncertain Reasoners Companion. Cambridge University Press, 1994 Course language: Notes: Course assessment Total number of assessed students: 2 P N 0.0 100.0 **Provides:** prof. RNDr. Stanislav Krajči, PhD. Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Neurocognition **NEK 1/15** Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of ECTS credits: 9** Recommended semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion:** Midterm exam. Project Final exam consisting of written and/or oral part. **Learning outcomes:** Skills in quantitative analysis and modeling of neural data. Overview of cognitive functions and their neural basis in the human brain **Brief outline of the course: Recommended literature:** 1. Poeppel D., Mangun G., Gazzaniga M. (ed.): The Cognitive Neurosciences. 6th ed. MIT Press. 2020. ISBN-13: 978-0262043250 2. Dayan P and LF Abbott: Theoretical Neuroscience - Computational and Mathematical Modeling of Neural Systems. MIT Press, 2005 ISBN-13: 978-0262541855 3. Thagard P: Mind: Introduction to Cognitive Science, 2nd Edition. Bradford Books. ISBN-13: 978-0262701099 4. KANDEL, E. R., SCHWARTZ, J. H. and JESSELL, T.M.: Principles of Neural Science. McGraw-Hill, 2021 ISBN-13: 978-1259642234 5. HERTZ, J., KROGH, A. and PALMER R. G.: Introduction to the theory of neural computation. Addison-Wesley 1991 ISBN-13: 978-0201515602 Course language: **English** Notes: Course assessment Total number of assessed students: 3 N P 0.0 100.0

Provides: doc. Ing. Norbert Kopčo, PhD.

Date of last modification: 08.07.2021

Approved:	
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University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚINF/ IG/15	Course name: Obtaini	ng of internal grant	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS credits: 10			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 34		
abs			
100.0 0.0			
Provides:		•	
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚINF/ PVS/15	Course name: Patents, inv	rentions, and software	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS credits: 2			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 11			
abs			
100.0 0.0			
Provides:			
Date of last modification: 03.05.2015			
Approved:			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KPE/ Course name: Pedagogy for university teachers PgVU/17 Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: Per study period: 28s Course method: present **Number of ECTS credits: 5** Recommended semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 33 abs neabs n 100.0 0.0 0.0 Provides: doc. PaedDr. Renáta Orosová, PhD. Date of last modification: 08.06.2021 Approved:

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚINF/ VYS/15	Course name: Present	ation of results in a seminar	
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS credits: 2			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 78		
abs			
100.0 0.0			
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Probabilistic and approximate algorithms PAHD/15 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present **Number of ECTS credits: 9** Recommended semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion:** Written test combined with an oral examination. **Learning outcomes:** Providing en extended backgroung in the area of probabilistic and approximation algorithms, with respect to their classification, efficiency, and probability of error. **Brief outline of the course:** Basic probabilistic computational models, Las Vegas algorithms, Monte Carlo algorithms. Probabilistic classes with polynomial time. Foiling the adversary, Hashing, Fingerprinting. **Recommended literature:** 1. HROMKOVIČ, J.: Design and analysis of ranodmized algorithms. Springer-Verlag, 2005. ISBN 3-540-23949-9. 2. MOTWANI, R. and RAGHAVAN, P.: Randomized Algorithms. Cambridge University Press 1995. ISBN 0-521-47465-5 3. MITZEMANCHER, M. and UPFAL, E.: Probability and Computing: Randomized Algorithms and Probabilistic Analysis. Cambridge University Press 2005. ISBN 0-521-83540 2 4. HROMKOVIČ, J.: Communication Protocols - An Exemplary Study of the Power of Randomness. In: Handbook on Randomized Computing, P.Pardalos, S.Rajasekaran, J.Reif, J.Rolim, Eds., Kluwer Publ., 2001. Course language: **Notes:** Course assessment Total number of assessed students: 10 P N 0.0 100.0

Provides: prof. RNDr. Viliam Geffert, DrSc., prof. RNDr. Gabriel Semanišin, PhD.

Date of last modification: 03.05.2015

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

Faculty: Faculty of Science

Course ID: Course name: Psychology for University Lecturers

KPPaPZ/PsVU/17

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of ECTS credits: 5

Recommended semester/trimester of the course:

Course level: III.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

University teacher and his work in the teaching process with a focus on:

teacher in relation to himself (cognitive, personality, social competencies and competencies in the use of methods), in relation to students and as part of the teacher-student relationship based on selected areas of cognitive psychology, psychology of emotions and motivation, developmental psychology, social psychology , educational psychology and health psychology with application to the university environment.

Recommended literature:

Alexitch, L. R. (2005). Applying social psychology to education. Social Psychology.–Ed.:

Schneider F., Gruman J., Coutts L.-Sage Publications, Inc, 205-228.

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

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

Kniha psychologie. Universum, 2014

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

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

Course language:

Notes:

Course assessment

Total number of assessed students: 37

abs	n	neabs
100.0	0.0	0.0

Provides: PhDr. Anna Janovská, PhD.

Date of last modification: 28.06.2021

Approved:	
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University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚINF/ KVAD/15			
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 0 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 0		
Number of ECTS cr	edits: 8		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for course completion: oral exam			
Learning outcomes: To learn how quantum algorithms can be used for solving hard problems, in coding theory and in cryptology.			
search algorithm anf	n. Principles and power of c	quantum computing. Fast factorisation. Qunatum d problems. The class BQNP - an analogy of the ny.	
2. HIRVENSALO, M 3. KITAEV, A.Y., SH American Mathemati 4. NIELSEN, M.A., C Cambridge Universit 5. STEEB, W. H., HA	ntum Computing. McGraw-Information I. Quantum Computing, Spraise IEN, A.H., VYVALYI, M.N. cal Society, 2002. CHUANG, I.L. Quantum Computer of Press, 2000.	inger, 2004. Classical and Quantum Computation. Imputation and Quantum Information. Putions in Quantum Computing And Quantum	
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 0		
	N	P	
	0.0	0.0	
Provides: prof. RND:	Provides: prof. RNDr. Gabriel Semanišin, PhD.		

Date of last modification: 03.05.2015

Approved:

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚINF/ VPBP/15	Course name: Review	of a bachelor thesis	
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): y period: esent		
Number of ECTS credits: 2			
Recommended semester/trimester of the course:			
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course:			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 49			
abs			
100.0 0.0			
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚINF/ RZ/15	Course name: Rewieved	international or local proceedings		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of ECTS credits: 10				
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 95			
abs				
100.0 0.0				
Provides:				
Date of last modification: 03.05.2015				
Approved:				

University: P. J. Šafá	irik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚINF/ SCI/15			
Course type, scope a Course type: Recommended cou Per week: Per stuc Course method: pro	rse-load (hours): ly period: esent		
Number of ECTS cr	-		
	ester/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 5		
	abs n		
	100.0 0.0		
Provides:		•	
Date of last modifica	ation: 03.05.2015		
Approved:	_		

University: P. J. Šafá	rik University in Kos	sice	
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS1a/15	Course name: Special branch seminar		
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28 esent		
Number of ECTS cr			
Recommended seme	ster/trimester of the	e course: 1.	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
poznatkov orientovan	ných na problematiku	a k samostatnému a tvorivému získavaniu najnovších príbuznú téme dizertačnej práce, a takisto priebežné poznatky prezentovať.	
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 39		
	abs	n	
	100.0 0.0		
Provides: doc. RNDr	. Gabriela Andrejkov	rá, CSc., prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS1b/15	1		
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): idy period: 28 esent		
Number of ECTS cr			
	ster/trimester of the course	e: 2.	
Course level: III.			
Prerequisities:	Prerequisities:		
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:	•		
Course assessment Total number of asse	ssed students: 37		
	abs n		
	100.0 0.0		
Provides: doc. RNDr	: Gabriela Andrejková, CSc.	, prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	ntion: 03.05.2015		
Annroved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS2a/15			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): idy period: 28 esent		
Number of ECTS cr		2	
	ster/trimester of the course	e: 3.	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 33		
	abs n		
	100.0 0.0		
Provides: doc. RNDr	. Gabriela Andrejková, CSc.	, prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	ntion: 03.05.2015		
Annroved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS2b/15	Course name: Special branch seminar		
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): idy period: 28 esent		
Number of ECTS cr			
	ster/trimester of the cou	'se: 4.	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 32		
	abs	n	
	100.0 0.0		
Provides: doc. RNDr	: Gabriela Andrejková, CS	c., prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in K	Lošice	
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS3a/15			
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	rse-load (hours): dy period: 28 esent		
Number of ECTS cr			
Recommended seme	ster/trimester of t	the course: 5.	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	course:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 32		
abs n			
	100.0 0.0		
Provides: doc. RNDr	: Gabriela Andrejk	ová, CSc., prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS3b/15	1		
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): idy period: 28 esent		
Number of ECTS cr			
	ster/trimester of the course	e: 6.	
Course level: III.			
Prerequisities:			
Conditions for course completion:			
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 33		
	abs n		
	100.0 0.0		
Provides: doc. RNDr	. Gabriela Andrejková, CSc.	, prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	ntion: 03.05.2015		
Annroved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS4a/15	Course name: Special branch seminar		
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28 esent		
Number of ECTS cr			
	ster/trimester of the cours	e: 7.	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:	-	
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 22		
	abs n		
	100.0 0.0		
Provides: doc. RNDr	. Gabriela Andrejková, CSc	, prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	ntion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ SOS4b/15	F/ Course name: Special branch seminar		
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 cours	e: 8.	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asses	ssed students: 22		
	abs n		
	100.0 0.0		
Provides: doc. RNDr	. Gabriela Andrejková, CSc	, prof. RNDr. Viliam Geffert, DrSc.	
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: Dek. PF UPJŠ/JSD/14	Course ID: Dek. PF Course name: Spring School for PhD Students UPJŠ/JSD/14		
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: 4d esent		
Number of ECTS cr			_
	ster/trimester of the course	e: 	_
Course level: III.			_
Prerequisities:			_
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			_
Course assessment Total number of asses	ssed students: 154		
	abs		
	100.0 0.0		
Provides: doc. RNDr	Marián Kireš, PhD.		
Date of last modifica	tion: 03.05.2015		
Approved:			_

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ ZSP/15			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of ECTS cr	edits: 2		
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 20		
	abs n		
	100.0 0.0		
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ VPSV/15	<u> </u>		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period:		
Number of ECTS cr	edits: 6		
Recommended seme	ster/trimester of the cou	rse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 21		
	abs n		
	100.0 0.0		
Provides:			
Date of last modifica	tion: 03.05.2015		
Approved:			

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚINF/ VBP/15	Course name: Supervis	ion of bachelor thesis			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): y period: esent				
Number of ECTS credits: 6					
Recommended semester/trimester of the course:					
Course level: III.	Course level: III.				
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 53				
	abs		n		
	100.0		0.0		
Provides:		-			
Date of last modification: 03.05.2015					
Approved:					

COURSE INFORMATION LETTER				
University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
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	rse-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 Evaluation of indivi- examination.	e completion: idual work in the study of theoretical issues of neural networks. Oral			
	matical principles of neural networks and to know their capabilities. To be able f neural networks to solve some problems.			
46. Probabilistic net 79. Computational of machines, and Turing 1012. Approximation	complexity of neural networks.			
2016. ISBN: 9780262 2. HERTZ, John, And computation. Redwood 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. 6. HAYKIN, S.: Neur 1999.	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. an NERUDA. Teoretické otázky neuronových sítí. Praha: MATFYZPRESS,			
Course language: Slovak or English				

Notes:

Course assessment				
Total number of assessed students: 24				
N	P			
0.0	100.0			
Provides: doc. RNDr. Gabriela Andrejková, CSc.				
Date of last modification: 26.08.2021				
Approved:				

University: P. J. Šafá	arik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚINF/ PDS/18	Course name: Writing D	issertation Thesis		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pr	rse-load (hours): dy period: esent			
Number of ECTS credits: 0				
	ester/trimester of the cour	se:		
Course level: III.				
Prerequisities:				
Conditions for cour	se completion:			
Learning outcomes:				
Brief outline of the	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 2				
	N	P		
	0.0	100.0		
Provides:				
Date of last modification: 20.02.2020				
Approved:				