University: D. I. Šeférik University in Kočico								
Faculty: Faculty of S	Faculty: Faculty of Science							
Course ID: UINF/ ABSP/14	Course name: Essentials o	Course name: Essentials of ABAP						
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 credits: 4								
Recommended seme	ster/trimester of the cours	e: 1., 3.						
Course level: II.								
Prerequisities: ÚINF	/ZTSP/14							
Conditions for cours	e completion:							
Learning outcomes:								
Brief outline of the c Principles of program ABAP Open SQL, Al operations, cycles, tes ABAP, definition elem	ourse: nming in ABAP, declaratio BAP Workbench navigation, st programs using a debugger mentary and structured data	n of variables, the basic syntax of the language ABAP editor, arithmetic, logic conditions, string , an overview of the most important commands of objects, functional groups and function modules.						
Recommended litera	iture:							
Course language:								
Course assessment Total number of asses	ssed students: 40							
	abs	n						
95.0 5.0								
Provides: RNDr. Štefan Pero								
Date of last modification: 09.02.2017								
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.								

University: P. J.	Šafárik Univers	sity in Košice					
Faculty: Faculty	of Science			-			
Course ID: ÚINF/ AEO1/15Course name: Legal aspects of electronic commerce							
Course type, sco Course type: L Recommended Per week: 2 Pe Course method	ope and the me ecture course-load (h r study period l: present	thod: ours): : 28					
Number of cred	its: 3						
Recommended s	semester/trime	ster of the cours	e: 2., 4.				
Course level: I.,	II.						
Prerequisities:							
Conditions for c	course complet	ion:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	e:						
Course assessme Total number of	ent assessed studer	nts: 0					
Α	В	С	D	E	FX		
0.0	0.0 0.0 0.0 0.0 0.0						
Provides: doc. J	UDr. Regina Hu	ičková, PhD., doo	e. RNDr. Jozef Ji	rásek, PhD.			
Date of last mod	lification: 09.02	2.2017					
Approved: Guar	anteeprof. RNE	Dr. Viliam Geffert	, DrSc.				

University: P. J. Šafárik University in Košice							
Faculty: Faculty	Faculty: Faculty of Science						
Course ID: KFal AFS/05	Course ID: KFaDF/ Course name: Ancient Philosophy and Present Times AFS/05						
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of credi	its: 2						
Recommended s	emester/trime	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for c	ourse completi	on:					
Learning outcon	nes:						
Brief outline of t	the course:						
Recommended li	iterature:						
Course language	2:						
Course assessme Total number of	ent assessed studen	ts: 31					
A	В	С	D	E	FX		
80.65 6.45 6.45 0.0 6.45 0.0							
Provides: Doc. PhDr. Peter Nezník, CSc.							
Date of last modification: 24.02.2017							
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.							

University: P. J. Šafárik University in Košice								
Faculty: Faculty	y of Science							
Course ID: ÚIN AIS1/15	Course ID: ÚINF/Course name: Information systems architectureIS1/15							
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 crea	lits: 4							
Recommended	semester/trimes	ster of the course	e: 2.					
Course level: II	•							
Prerequisities:								
Conditions for Work on projec Written and ora	course completi t. l examination	on:						
Learning outco To provide an o introduce the fu	mes: verview of the m ndamental princi	odern methodolo ples of conceptu	ogies of informa al modelling of	tion system development of the system of the	opment. To ms.			
Brief outline of System, informa- model of the ar life cycle based marking model Taxonomies. Do	the course: ation system, info chitecture of an i d on MDA. Moo s. Entity types. I comain events. Us	ormation pyramic information syste del, metamodel, Relationship type e cases. State tra	d. Conceptualisa m. Introduction modelling lang es. Cardinality nsition diagram	ation of information to MDA, softwar uage. Model trans constraints. Integr s.	on systems. ISO re development sformation and rity constraints.			
Recommended 1. http://www.o 2. Ian Sommerv 3. Anneke Klep Addison-Wesley 4. Scott Berkun	Recommended literature: http://www.omg.org Ian Sommerville, Software Engineering, Addison-Wesley 2005 Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 							
Course languag	ge:							
Course assessm Total number of	ent f assessed studen	ts: 173						
А	В	С	D	E	FX			
19.65	30.64	25.43	9.25	11.56	3.47			
Provides: doc. 1	RNDr. Gabriel Se	emanišin, PhD.		·				
Date of last mo	dification: 09.02	2.2017						
Approved: Gua	ranteeprof. RND	r. Viliam Geffert	, DrSc.					

University: P. J.	University: P. J. Šafárik University in Košice						
Faculty: Faculty	Faculty: Faculty of Science						
Course ID: ÚIN ANO/15	Course ID: ÚINF/ Course name: Image analysis ANO/15 Course name: Image analysis						
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 cred	lits: 4						
Recommended	semester/trime	ster of the cours	e: 1., 3.				
Course level: I.,	, II.						
Prerequisities:							
Conditions for o	course complet	ion:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Course assessm Total number of	ent assessed studer	nts: 20					
A	В	C	D	Е	FX		
15.0 20.0 25.0 5.0 35.0 0.0							
Provides: doc. Ing. Zoltán Tomori, CSc., doc. RNDr. Jozef Jirásek, PhD.							
Date of last modification: 09.02.2017							
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.							

University: P. J. Šafárik University in Košice								
Faculty: Faculty of Science								
Course ID: ÚINF/ ANP/15	Course ID: ÚINF/ Course name: Algorithmic unsolved problems							
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 credits: 4								
Recommended seme	ster/trimes	ter of the course	e: 2.					
Course level: II.								
Prerequisities:								
Conditions for cours	e completi	on:						
Learning outcomes: To introduce the stud solving given problem	ent into mo n.	st important resu	lts about non-e	xistence of an algo	orithm for			
undefinability of trut Algorithmic unsolval deciding the existenc of unsolvability.	h in formali pility of par e of a soluti	zed arithmethic. ticular mathemat	Godel incomplical problems. International problems. International Research and the second sec	etness theorem. Non-existence of a eduction of proble	an algorithm for ems and degrees			
 Recommended literature: J. Barwise ed., Handbook of Mathematical Logic, North Holland 1977S. C. Kleene, Introduction to the Metamathematics, Van Nostrand 1952, ruský preklad Moskva 1957. E. Mendelson, Introduction to Mathematical Logic, Van Nostrand 1963, ruský preklad Nauka Moskva 1976. M. Davis, Hilbert's Tenth Problem is Unsolvable, Amer. Math. Monthly,1973, 233269. Ju.V. Matijasevič, Diofantovy Množestva, Usp. Mat. Nauk,27 (1972), 185222 L. Bukovský, Algoritmicky neriešiteľné problémy, učebný text v elektronickej forma na sieti 								
Course language:								
Course assessment Total number of asse	ssed studen	ts: 12						
Α	В	С	D	Е	FX			
100.0	0.0	0.0	0.0	0.0	0.0			
Provides: doc. RNDr	. Stanislav l	Krajči, PhD.						
Date of last modifica	tion: 07.02	.2017						
Approved: Guarante	eprof. RND	r. Viliam Geffert	, DrSc.					
Fr								

University: P. J. Šafárik University in Košice								
Faculty: Faculty	of Science							
Course ID: ÚIN AOS1/15	Course ID: ÚINF/ Course name: Administration of OS AOS1/15							
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present								
Number of cred	its: 2							
Recommended	semester/trimes	ster of the cours	e: 1., 3.					
Course level: I.,	II.							
Prerequisities:								
Conditions for o	course completi	on:						
Learning outcome To be able to insomanage several	mes: stall Linux based network deamor	l system, divide c ns.	lisks, to know ho	ow to install, cont	figure and			
manage several network deamons. Brief outline of the course: 1. Introduction to network services 2. SSH 3. Routing and NAT 4. Introduction to Firewall 5. Advanced firewall settings 6. DHCP server 7. Web server (apache, php, mysql) 8. Monitoring Server (SNMP, MRTG) 9. Samba Server 10. Mail server (smtp, imap, postfix) 11. Proxy server 12. Windows server 13. Windows Server II. 14. Introduction to Virtualization (Hymer V OpenVZ)								
 Recommended literature: 1. Linux Documentation Project, 4 updated edition. Brno: Computer Press (2008). 2. Stanek, W.: Windows Server 2012 Inside Out. Microsoft Press (2013) 3. Shah, S. Soyinka, W. Administration Linux. Grade (2007) 4. Nemeth, E., et al.: Linux. Brno: Computer Press (2008) 								
Course languag	e:							
Course assessm	ent `assessed studen	ts: 83						
A	В	С	D	Е	FX			
51.81	24.1	6.02	4.82	7.23	6.02			
I				· · ·				

Provides: RNDr. JUDr. Pavol Sokol, PhD., RNDr. PhDr. Peter Pisarčík

Date of last modification: 07.02.2017

Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.

University: P. J.	. Šafárik Univers	sity in Košice					
Faculty: Faculty of Science							
Course ID: ÚIN APA1/15	Course ID: ÚINF/ APA1/15Course name: Approximation algorithms						
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 crea	lits: 5						
Recommended	semester/trime	ster of the cours	e: 3.				
Course level: II							
Prerequisities:							
Conditions for	course complet	ion:					
Learning outco To learn basic c error probability	mes: onceptions of ra ^{y.}	ndomized algorit	hms and to class	ify the algorithms	s due to their		
Brief outline of Basic notions of Las Vegas algor Carlo algorithm algorithms with problem, approprised problems and a approximations	the course: Probability The rithms. One side ns. Two sided u h polynomial ti pyroximation algor pproximation so . FPTAS. PTAS.	eory. Basic randon ed error Monte Ca nbounded error M ime complexity ithm, relative er olutions. Classific TSP problem and	nized computing arlo algorithms. Monte Carlo alg and relationship ror, approximat ation of optimise d its relaxations.	models and its ch Two sided bound orithms. Classes os between them ion ratio. Speci- ation problems b Unapproximabil	haracterisations. led error Monte of randomized h. Optimisation al optimisation ased upon their ity.		
Recommended	literature:						
Course languag	ge:						
Course assessm Total number of	ent f assessed studer	nts: 115					
А	В	C	D	Е	FX		
27.83	15.65	18.26	13.91	23.48	0.87		
Provides: prof.	Provides: prof. RNDr. Viliam Geffert, DrSc., RNDr. Ondrej Krídlo, PhD.						
Date of last mo	dification: 09.02	2.2017					
Approved: Gua	ranteeprof. RNI	Dr. Viliam Geffert	, DrSc.				

University: P. J. Šafárik University in Košice								
Faculty: Faculty of Science								
Course ID: ÚIN ARP1/15	Course ID: ÚINF/ Course name: Computer architecture ARP1/15							
Course type, sc Course type: I Recommended Per week: 2 / 1 Course metho	ope and the me Lecture / Practice l course-load (h l Per study peri d: present	thod: cours): od: 28 / 14						
Number of crea	lits: 4							
Recommended	semester/trimes	ster of the cours	e: 2., 4.					
Course level: I.	, II.							
Prerequisities:								
Conditions for Oral examination	course complet ion, written tests.	ion:						
Learning outco To provide the s	mes: students with a k	nowledge of basi	ic principles of c	omputer architect	ure.			
the implementa organization, R. The microarchi architecture leve cache memory. system kernel. c	tion of floating AMs and ROMs tecture level, m el, data types, add I/O controllers, levice-independe	point arithmetic. Digital logic le icroinstructions a dressing modes, in ports, interrupts, ent software.	Combinatorial vel architecture, and microinstruct nstruction types. direct memory a	and sequential ci data path timing, cion control. The Instruction execut access. Device dri	rcuits, memory machine cycle. instruction set tion, pipelining, ivers, operating			
Recommended 1. A. S. Tanenb 2. D.A. Patterso Interface, Morg 3. W. Stallings: 4. J. Horák: Han	literature: aum: Structured on, J.L. Hennessy an Kaufmann, 20 Computer Organ rdware, učebnice	Computer Organ 7: Computer Organ 11 11 11 11 12 11 12 11 12 11 12 12	ization, Prentice anization and De nitecture, Prentic Computer Press, 2	Hall, 2005 sign - The Hardw e Hall, 2012 2007	vare/Software			
Course languag	ge:							
Course assessm Total number of	ent f assessed studen	its: 58						
А	В	С	D	E	FX			
17.24	18.97	17.24	20.69	18.97	6.9			
Provides: doc. I	RNDr. Jozef Jirá	sek, PhD.						
Date of last mo	dification: 07.02	2.2017						
Approved: Gua	ranteeprof. RNE	r. Viliam Geffer	t, DrSc.					

University: P. J. Šafárik University in Košice								
Faculty: Faculty of Science								
Course ID: ÚFV BSIM1/14	Course ID: ÚFV/ Course name: Biomolecular Simulations BSIM1/14							
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 cred	its: 5							
Recommended	semester/trime	ster of the cours	e: 4.					
Course level: II.								
Prerequisities:								
Conditions for a Elaboration and computer progra	course complet presentation of ams on project g	ion: the project on giv iven at the exerci	ven actual subje ses. Exam.	ct. Development o	f own			
Learning outcom Introduction to a	mes: actual problema	tics of biomolecu	lar simulations.					
Brief outline of Structural characteristics as flow of biolog mechanisms. Ex- force fields and Carlo methods - approaches. Con- reactions, free approaches and	the course: cteristics of bio gical informatio cperimental me d methods of algorithms and mputational char energy evaluat heuristic approa	logical polymers. n. 3D-structure ar thods of structure classical molecul l paralelization. < allenges in biom ion, protein fold aches.	Foldamers. Cented function of for the determination ar dynamics. It is Ab initio is olecular simulation. Computat	ntral dogma of mo oldamers. Recent v and their limitati Molecular dynami molecular dynami tions - simulation ional complexity,	elecular biology riew on enzyme ions. Empirical ics and Monte nics and hybrid ns of chemical nontraditional			
Recommended Actual literature	literature:	by lecturer.						
Course languag	e:							
Course assessm Total number of	ent assessed studer	nts: 39		_				
A	В	C	D	Е	FX			
74.36	74.36 10.26 12.82 0.0 2.56 0.0							
Provides: doc. R	NDr. Jozef Uli	čný, CSc.						
Date of last mod	lification: 24.0	2.2017						
Approved: Guar	canteeprof. RNI	Dr. Viliam Geffert	, DrSc.					

University: P. J.	University: P. J. Šafárik University in Košice						
Faculty: Faculty	y of Science						
Course ID: KFa DF2p/03	Course ID: KFaDF/ Course name: History of Philosophy 2 (General Introduction) DF2p/03						
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present							
Number of cred	lits: 4						
Recommended	semester/trimes	ster of the cours	e:				
Course level: I.,	, II.						
Prerequisities:							
Conditions for	course completi	ion:					
Learning outco	mes:						
Brief outline of	the course:			_			
Recommended	literature:						
Course languag	ge:						
Course assessm Total number of	ent f assessed studen	ıts: 734					
A	В	С	D	Е	FX		
60.63	13.9	12.67	8.72	3.41	0.68		
Provides: doc. PhDr. Pavol Tholt, PhD., mim. prof., Doc. PhDr. Peter Nezník, CSc., PhDr. Katarína Mayerová, PhD., doc. Mgr. Róbert Stojka, PhD.							
Date of last mo	dification: 24.02	2.2017					
Approved: Gua	ranteeprof. RND	r. Viliam Geffert	, DrSc.				

University: P. J. Š	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science			-			
Course ID: ÚINF DPO/15	Course ID: ÚINF/ Course name: Diploma Thesis and its Defence DPO/15						
Course type, scop Course type: Recommended Per week: Per s Course method:	pe and the met course-load (h study period: : present	thod: ours):					
Number of credit	ts: 20						
Recommended so	emester/trimes	ster of the cours	e:				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcom	nes:						
Brief outline of t	he course:						
Recommended li	terature:						
Course language	:						
Course assessme Total number of a	nt assessed studen	ts: 22					
A	В	С	D	Е	FX		
50.0	50.0 22.73 22.73 4.55 0.0 0.0						
Provides:	Provides:						
Date of last modi	ification: 07.02	2.2017					
Approved: Guara	anteeprof. RND	r. Viliam Geffert	, DrSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚINF/ DSA1a/15	Course name: Seminar on applied informatics				
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 credits: 2					
Recommended seme	ster/trimester of the cours	e: 2.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes: To study new knowle current state in the ar	edges in the area of applied i ea using conference proceed	nformatics in the seminar form. To follow lings and specialized journals.			
Brief outline of the c Seminar is oriented t information system d	ourse: o an individual work with s evelopment, application of c	tudents which have the diploma theses related to combinatorial algorithms etc.			
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.					
Course language:					
Course assessment Total number of assessed students: 20					
abs n		n			
95.0 5.0		5.0			
Provides: doc. RNDr. Gabriela Andrejková, CSc.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚINF/ DSA1b/15Course name: Seminar on a	Course name: Seminar on applied informatics			
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 credits: 2				
Recommended semester/trimester of the course:	3.			
Course level: II.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes: To study new knowledges in the area of applied in current state in the area using conference proceeding	formatics in the seminar form. To follow ngs and specialized journals.			
Brief outline of the course: Seminar is oriented to an individual work with stuinformation system development, application of co	idents which have the diploma theses related to ombinatorial algorithms etc.			
 Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. 				
Course language:				
Course assessment Total number of assessed students: 17				
abs n				
100.0 0.0				
Provides:				
Date of last modification: 09.02.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert,	DrSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚINF/ DSB1a/15	D: ÚINF/ Course name: Seminar on security of computer networks			
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 credits: 2	2			
Recommended seme	ster/trimester of the cours	e: 2.		
Course level: II.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c Seminar is oriented to the security of compu	Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: the security of computer networks.			
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.				
Course language:				
Course assessment Total number of assessed students: 9				
abs n				
88.89 11.11				
Provides: doc. RNDr. Jozef Jirásek, PhD.				
Date of last modification: 07.02.2017				
Approved: Guarante	eprof. RNDr. Viliam Geffert	, DrSc.		

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚINF/ DSB1b/15Course name: Seminar on 1	Course name: Seminar on security of computer networks			
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 credits: 2				
Recommended semester/trimester of the course	e: 3.			
Course level: II.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes: In the seminar form to study new knowledges in t networks. To follow current state in the area using	he area of cryptology and security of computer g conference proceedings and special journals.			
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: the security of computer networks.				
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.				
Course language:				
Course assessment Total number of assessed students: 11				
abs n				
100.0 0.0				
Provides: doc. RNDr. Jozef Jirásek, PhD.				
Date of last modification: 07.02.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚINF/ DSL1a/15	ÚINF/ Course name: Seminar on logic of information systems				
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 credits: 2	2				
Recommended seme	ster/trimester of the course	e: 2.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes: To study new knowledges in the area of logic of information and knowledge systems in the seminar form. To follow current state in the area using conference proceedings and special journals.					
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: logic of information systems.					
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.					
Course language:					
Course assessment Total number of assessed students: 6					
abs n					
100.0 0.0					
Provides: RNDr. Peter Gurský, PhD.					
Date of last modification: 09.02.2017					
Approved: Guarantee	Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. I. Šafárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: ÚINF/ DSL1b/15	Ourse ID: ÚINF/ Course name: Seminar on logic of information systems SL1b/15 Course name: Seminar on logic of information systems				
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 credits: 2					
Recommended seme	ster/trimester of the cours	e: 3.			
Course level: II.					
Prerequisities: ÚINF	/DSL1a/15				
Conditions for cours	e completion:				
Learning outcomes: To study new knowledges in the area of logic of information and knowledge systems in the seminar form. To follow current state in the area using conference proceedings and special journals.					
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: logic of information systems.					
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.					
Course language:					
Course assessment Total number of assessed students: 13					
abs n					
100.0 0.0					
Provides: RNDr. Peter Gurský, PhD.					
Date of last modification: 07.02.2017					
Approved: Guarantee	Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚINF/ DSN1a/15	Course name: Seminar on neural networks and stringology			
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 credits: 2	· · · · · · · · · · · · · · · · · · ·			
Recommended seme	ster/trimester of the cour	se: 2.		
Course level: II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes: To study new knowle follow current state in	dges in the area of neural r the area using conference	networks and stringology in the seminar form. To proceedings and special journals.		
Brief outline of the c Seminar is oriented to neural networks and s	Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: neural networks and stringology.			
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.				
Course language:				
Course assessment Total number of assessed students: 7				
	abs n			
	85.71 14.29			
Provides: doc. RNDr. Gabriela Andrejková, CSc.				
Date of last modification: 07.02.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚINF/ DSN1b/15	Course name: Seminar on neural networks and stringology			
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 credits: 2	2			
Recommended seme	ster/trimester of the cours	e: 3.		
Course level: II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes: To study new knowle follow current state in	edges in the area of neural ne n the area using conference p	etworks and stringology in the seminar form. To proceedings and special journals.		
Brief outline of the c Seminar is oriented to neural networks and	Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: neural networks and stringology.			
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.				
Course language:				
Course assessment Total number of assessed students: 3				
abs n				
100.0 0.0				
Provides: doc. RNDr. Gabriela Andrejková, CSc.				
Date of last modification: 07.02.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚINF/ DST1a/15	Course name: Seminar in theoretical informatics				
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 credits: 2					
Recommended seme	ster/trimester of the cours	e: 2.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes: To study new knowle current state in the ar	dges in the area of the theor ea using conference proceed	etical informatics in the seminar form. To follow lings and special journals.			
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: theoretical foundations of informatics.					
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.					
Course language:					
Course assessment Total number of assessed students: 6					
abs n					
100.0 0.0					
Provides: prof. RNDr. Viliam Geffert, DrSc.					
Date of last modification: 09.02.2017					
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚINF/ DST1b/15	Course name: Seminar in theoretical informatics				
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 credits: 2					
Recommended seme	ster/trimester of the cours	e: 3.			
Course level: II.					
Prerequisities: UINF	C/DST1a/15				
Conditions for cours	e completion:				
Learning outcomes: To study new knowle current state in the ar	edges in the area of the theor ea using conference proceed	etical informatics in the seminar form. To follow ings and special journals.			
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: theoretical foundations of informatics.					
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.					
Course language:					
Course assessment Total number of assessed students: 2					
abs n					
100.0 0.0					
Provides: prof. RNDr. Viliam Geffert, DrSc.					
Date of last modification: 09.02.2017					
Approved: Guarantee	eprof. RNDr. Viliam Geffert	, DrSc.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚINF/ DWA1/15Course name: Developing web applications with JavaScript				
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 credits: 2				
Recommended semester/trimester of the course: 1., 3.				
Course level: I., II.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course: Principles of JavaScript. Architecture of modern web applications, client-server communications with asynchronous IO programming using NodeJS and MongoDB. Securing web applications. Templates for web page generation. Fundamentals of e-commerce web sites (storefront components, site administration, integrations with third-party services)				
Recommended literature:				
Course language:				
Course assessment Total number of assessed students: 13				
A B C D E FX				
23.08 15.38 30.77 7.69 23.08 0.0				
Provides:				
Date of last modification: 23.02.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. J.	. Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚIN EIL/04	F/ Course name: Information and knowledge systems				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of crec					
Recommended	semester/trimes	ster of the cours	e:		
Course level: 11					
Prerequisities:	,				
Conditions for	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	ge:				
Course assessment Total number of assessed students: 31					
А	В	С	D	Е	FX
29.03	16.13	16.13	16.13	16.13	6.45
Provides:					
Date of last mo	Date of last modification: 02.07.2018				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. S	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚINI FAN/15	F/ Course na	me: Forensic an	alysis		
Course type, sco Course type: Le Recommended Per week: 2 / 2 Course method	pe and the met ecture / Practice course-load (h Per study perio : present	thod: ours): od: 28 / 28			
Number of credi	its: 4				
Recommended s	emester/trimes	ster of the cours	e: 2., 4.		
Course level: I., I	II				
Prerequisities: Ú	/INF/BPD1/15				
Conditions for co	ourse completi	on:			
Learning outcon	nes:				
Brief outline of t	he course:				
Recommended li	iterature:				
Course language	2:				
Course assessme Total number of a	ent assessed studen	ts: 10			
A	В	С	D	Е	FX
10.0	30.0	40.0	20.0	0.0	0.0
Provides: PhDr. S	Štefan Franko, 1	PhD., RNDr. JUI	Dr. Pavol Sokol, I	PhD.	
Date of last mod	ification: 09.02	2.2017			
Approved: Guara	anteeprof. RND	r. Viliam Geffert	, DrSc.		

University: P. J. Š	Safárik Univers	sity in Košice					
Faculty: Faculty	of Science						
Course ID: KFaE IH2/03	Course ID: KFaDF/ Course name: Idea Humanitas 2 (General Introduction)						
Course type, scop Course type: Pra Recommended Per week: 2 Per Course method:	pe and the me actice course-load (h study period: present	thod: ours): 28					
Number of credit	ts: 2						
Recommended se	emester/trimes	ster of the cours	e: 3.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcom	ies:						
Brief outline of t	he course:			-			
Recommended li	terature:						
Course language	:						
Course assessme Total number of a	nt assessed studen	.ts: 8					
A	В	С	D	E	FX		
87.5	12.5	0.0	0.0	0.0	0.0		
Provides: Doc. Pl	nDr. Peter Nezi	ník, CSc.					
Date of last modi	fication: 24.02	2.2017					
Approved: Guara	inteeprof. RND	r. Viliam Geffert	, DrSc.				

University: P. J.	Šafárik Univers	sity in Košice					
Faculty: Faculty	of Science						
Course ID: KFa KDF/05): KFaDF/ Course name: Chapters from History of Philosophy of 19th and 20th Centuries (General Introduction)						
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ope and the me ractice course-load (h r study period l: present	thod: tours): 28					
Number of cred	its: 2						
Recommended s	semester/trime	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for c	course complet	ion:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	e:						
Course assessme Total number of	ent assessed studer	nts: 10					
А	В	C	D	E	FX		
50.0	20.0	10.0	0.0	10.0	10.0		
Provides: doc. P	hDr. Pavol Tho	lt, PhD., mim. pr	of.	·			
Date of last mod	lification: 24.02	2.2017					
Approved: Guar	anteeprof. RNE	Dr. Viliam Geffert	, DrSc.				

University: P. J. Šafá	rik Univers	ity in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: KPPaPZ/KK/07	Course ID: Course name: Communication and Cooperation					
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the met ce rse-load (h dy period: csent	thod: ours): 28				
Number of credits: 2						
Recommended seme	ster/trimes	ster of the course: 3.				
Course level: II.						
Prerequisities:						
Conditions for cours	e completi	on:				
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Course assessment Total number of assessed students: 281						
abs	abs n z					
98.22 1.78 0.0						
Provides: Mgr. Ondrej Kalina, PhD., Mgr. Lucia Hricová, PhD.						
Date of last modification: 16.02.2017						
Approved: Guarantee	eprof. RND	r. Viliam Geffert, DrSc.				

University: P. J.	University: P. J. Šafárik University in Košice							
Faculty: Faculty	Faculty: Faculty of Science							
Course ID: ÚIN KKV1/15	NF/ Course name: Classical and quantum computations							
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present								
Number of crea	lits: 6							
Recommended	semester/trimes	ster of the cours	e: 1., 3.					
Course level: II								
Prerequisities:								
Conditions for Written work Writen and oral	course completi examination	on:						
Learning outco To provide info and quantum m	mes: rmation on quant odels and methor	tum computer an ds.	d quantum comp	utations. To com	pare classical			
Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes								
 Recommended literature: 1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. 5. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004 								
Course language:								
Course assessm	ent							
Total number of	f assessed studen	ts: 104	-					
A	В	С	D	E	FX			
23.08	35.58	14.42	14.42	8.65	3.85			

Provides: doc. RNDr. Gabriel Semanišin, PhD., RNDr. Zuzana Bednárová, PhD.

Date of last modification: 07.02.2017

Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.

University: P. J. Ša	afárik Univers	ity in Košice					
Faculty: Faculty o	f Science						
Course ID: ÚINF/ KMU1/15	INF/ Course name: Coding and multimedial data transition						
Course type, scop Course type: Lec Recommended c Per week: 2 / 1 P Course method:	e and the met eture / Practice ourse-load (h er study peri present	thod: ours): od: 28 / 14					
Number of credits	s: 4						
Recommended set	mester/trimes	ster of the cours	e: 1., 3.				
Course level: I., II	•						
Prerequisities:							
Conditions for co	urse completi	on:					
Learning outcome	es:						
Brief outline of th	e course:						
Recommended lit	erature:						
Course language:							
Course assessmen Total number of as	t ssessed studen	ts: 14					
A	В	С	D	Е	FX		
35.71	0.0	21.43	28.57	14.29	0.0		
Provides: doc. RNDr. Stanislav Krajči, PhD., doc. RNDr. Jozef Jirásek, PhD.							
Date of last modif	ication: 09.02	2.2017					
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.							

University: P. J. Šafári	University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science								
Course ID: ÚMV/ KOA/10	Course name: Combinatorial algorithms							
Course type, scope an Course type: Lecture Recommended course Per week: 3 / 1 Per s Course method: pres	ad the method: / Practice se-load (hours): tudy period: 42 / 14 tent							
Number of credits: 6								
Recommended semes	ter/trimester of the course: 2., 4.							
Course level: II.								
Prerequisities:								
Conditions for course Oral examination	completion:							
Learning outcomes: Mastered an ability to of discrete mathematic proving algorithm corr	understand the close tie between the theoretical and algorithmic aspects and to show how algorithms can be extacted from theorems. Ability in rectness.							
Introduction to graphs. Introduction to algor algorithms. NP-comple Trees and rooted trees. Distance in graphs. Sh capacity path. The path Location centres and m Networks: An introduc Matchings: Maximum Transportation and ass Eulerian graphs and C Hamiltonian graphs. T	ithms and complexity. Sorting algorithms. Search algorithms. Greedy eteness. Generating all spanning trees of a graph. Minimum spanning tree problem. nortest path problem and its analogues. The most reliable path. The largest h with the largest expected capacity. nedians. etion to networks, the max-flow min-cut theorem. Related problems. in matchings in bipartite graphs. Maximum matchings in general graphs. fignment problems. hinese postman's problem. ravelling salesman problem.							
 G. Chartrand, O.R. New York 1993. N. Christofides: Gra (Russian translation from 3. D. Jungnickel: Grap 4. J. Plesník: Grafové a 5. M. N. S. Swamy, K. New York 1981. Course language: Sharah 	Vellermann: Applied and Algorithmic Graph Theory, McGraw-Hill, Inc. aph Theory - An Algorithmic Approach, Academic Press, New York 1975 om 1978). ohs, Networks, and Algorithms, Springer-Verlag Berlin 2005. algoritmy, Veda Bratislava 1983. . Thulasiraman: Graphs, networks, and algorithms. John Wiley and Sons,							

Course assessment Total number of assessed students: 102							
A B C D E FX							
37.25	37.25 21.57 20.59 8.82 10.78 0.98						
Provides: Dr.h.c. prof. RNDr. Stanislav Jendrol', DrSc.							
Date of last modification: 22.02.2017							
Approved: Gua	Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚTVŠ/ KP/12	Course name: Survival	Course		
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	nd the method: ce rse-load (hours): ly period: 36s esent			
Recommended seme		rse:		
Course level: I., II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Course assessment Total number of asses	ssed students: 329			
	abs	n		
47.11 52.89				
Provides: MUDr. Pet	er Dombrovský, Mgr. Ma	rek Valanský		
Date of last modifica	tion: 23.02.2017			
Approved: Guarantee	eprof. RNDr. Viliam Geff	ert, DrSc.		

University: P. J	. Šafárik Unive	rsity in Košice				
Faculty: Facult	y of Science					
Course ID: ÚIN KRP1/15	VF/ Course name: Cryptographic protocols					
Course type, sc Course type: 1 Recommended Per week: 2 / 2 Course metho	cope and the m Lecture / Practi- d course-load (2 Per study pe d: present	ethod: ce (hours): riod: 28 / 28				
Number of cree	dits: 4					
Recommended	semester/trim	ester of the cours	se: 1., 3.			
Course level: I.	, II.					
Prerequisities:						
Conditions for written test	course comple	tion:				
Learning outco to acquire know	omes: vledge on desig	n and verifying of	cryptographic p	rotocols		
Brief outline of Authentication key agreement	the course: and key establi protocols, conf	shment using shar erence key agreem	ed and public ke hent, zero-knowl	y cryptography, edge protocols.		
Recommended 1. Colin Boyd, 2003 2. Douglas R. S 2006 3. Bruce Schne John Wiley & S 4. Peter Ryan, S 2001	literature: Anish Mathuria tinson: Cryptog ier: Applied Cr Sons Inc., 1996 Steve Schneider	a: Protocols for Au graphy: Theory an yptography, Secor T Modeling and A	uthentication and d Practice, Third d Edition, nalysis of Securi	Key Establishmo Edition, Chapma	ent, Springer, an & Hall/CRC, dison-Wesley,	
Course languag	ge:					
Course assessment Total number of assessed students: 6						
А	В	C	D	E	FX	
16.67	0.0	16.67	33.33	16.67	16.67	
Provides: doc. 1 Krivoš-Belluš, F	RNDr. Stanisla PhD.	v Krajči, PhD., do	c. RNDr. Jozef J	irásek, PhD., RN	Dr. Rastislav	
Date of last mo	dification: 07.	02.2017				
Approved: Gua	ranteeprof. RN	Dr. Viliam Geffer	t, DrSc.			
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University: P. J. Safarik Un	iversity in Kosice					
Faculty: Faculty of Science						
Course ID: ÚINF/ Cour LAD1/15	V Course name: Logical aspects of databases					
Course type, scope and the Course type: Lecture Recommended course-los Per week: 2 Per study pe Course method: present	e method: ad (hours): riod: 28					
Number of credits: 4						
Recommended semester/t	imester of the cour	se: 2.				
Course level: II.						
Prerequisities:						
Conditions for course com	pletion:					
Learning outcomes: To understand and to be ab logic programming.	e to formalize relation	onships between d	atabases, first or	der logic and		
Brief outline of the course Relationships between data	: bases, logic and logi	c programming.				
Recommended literature: Serge Abiteboul, Richard Hull, Victor Vianu: Foundations of Databases. Addison-Wesley 1995, ISBN 0-201-53771-0						
Course language:						
Course assessment Total number of assessed students: 76						
A B	C	D	Е	FX		
39.47 15.79	19.74	13.16	9.21	2.63		
Provides: doc. RNDr. Stani	slav Krajči, PhD.	ı		1		
Date of last modification:	07.02.2017					
Approved: Guaranteeprof.	RNDr. Viliam Geffer	t, DrSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚTVŠ/ LKSp/13	Course ID: ÚTVŠ/ Course name: Summer Course-Rafting of TISA River KSp/13				
Course type, scope a Course type: Practic Recommended cour Per week: Per stud Course method: pre	nd the method: ce rse-load (hours): y period: 36s esent				
Number of credits: 2					
Recommended seme	ster/trimester of the cours				
Course level: I., II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Course assessment Total number of assessed students: 126					
	abs n				
45.24 54.76					
Provides: Mgr. Peter Bakalár, PhD.					
Date of last modification: 23.02.2017					
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN MIN1/15	JF/ Course name: Informatics for medicine				
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ope and the me Practice I course-load (h er study period: d: present	thod: ours): 28			
Number of cred	lits: 2				
Recommended	semester/trimes	ster of the cours	e: 3.		
Course level: I.,	, II				
Prerequisities:					
Conditions for of Oral and written	course completi n exam	on:			
Learning outco To present an ap conditions for so	mes: oplication of con o-called safety-r	nputer science in elevant domain.	medicine doma	in with emphasis	on the specific
Brief outline of Software devel MS .NET, C#, o used software to RationalRose, R company mange	the course: opment go med C++. Developm ools: RequisitePro, UI ement according	dicine domain (ent based on so- FA, Caliber, Clea to CMMI metho	radiotherapy as called "V" dev rCase. Quality dology.	nd ultrasound). Selopment model. and process mana	Syngo platform, An overview of agement and SW
Recommended http://www.syng http://www.siem	literature: go.com nens.com				
Course languag	ge:				
Course assessment Total number of assessed students: 74					
A	В	С	D	Е	FX
74.32	25.68	0.0	0.0	0.0	0.0
Provides: doc. F	RNDr. Gabriela	Andrejková, CSc			3
Date of last mo	dification: 09.02	2.2017			
Approved: Guar	ranteeprof. RND	r. Viliam Geffert	, DrSc.		

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN MIN2/15	F/ Course name: Informatics for medicine				
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 cred	its: 3				
Recommended	semester/trimes	ster of the cours	e: 4.		
Course level: I.,	II.				
Prerequisities: U	ÚINF/MIN1/15				
Conditions for a	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	e:				
Course assessment Total number of assessed students: 3					
A	В	C	D	E	FX
33.33	0.0	33.33	0.0	33.33	0.0
Provides: doc. R	Provides: doc. RNDr. Gabriela Andrejková, CSc.				
Date of last mod	lification: 07.02	2.2017			
Approved: Guar	canteeprof. RND	r. Viliam Geffert	, DrSc.		

University: P. J	. Safárik Univers	ity in Košice				
Faculty: Facult	y of Science					
Course ID: ÚIN MPJ1/15	NF/ Course na	(F/ Course name: Modern programming languages				
Course type, sc Course type: 1 Recommended Per week: 1 / 2 Course metho	cope and the met Lecture / Practice d course-load (h 2 Per study peri d: present	thod: ; ours): od: 14 / 28				
Number of cree	dits: 4					
Recommended	semester/trimes	ster of the cours	e: 2., 4.			
Course level: I.	, II.					
Prerequisities:						
Conditions for	course completi	on:				
Learning outco Mastering the b	mes: asics of standard	and experimenta	l programming	models and tech	niques.	
Object oriente programming – Attribute progra and declarative	d programming operator overloa amming. Parallel programming –	, Generic progr ading, indexer. E and multithread J lambda expressio	amming – par vent programm programming – ns, LINQ. Grap	rametric polymo ing (event handli processes, thread hics primitives.	orphism. Vector ng) – delegates. pool. Functional	
Recommended literature: 1. Andrew Troelsen, Pro C# 5.0 and the .NET 4.5 Platform, 2012, APRESS 2. Joseph Albahari, Ben Albahari, C# 5.0 in a Nutshell: The Definitive Reference, 2012, O'REILLY 3. Daniel Solis Illustrated C# 2012, 2012, APRESS					, 2012,	
Course languag	ge:					
Course assessm Total number o	nent f assessed studen	ts: 118				
А	В	С	D	Е	FX	
16.1	18.64	24.58	22.88	17.8	0.0	
Provides: doc.]	RNDr. Csaba Töi	rök, CSc.				
Date of last mo	dification: 07.02	2.2017				
Approved: Gua	ranteeprof. RND	r. Viliam Geffert	, DrSc.			

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚIN MSSI/15	F/ Course na	F/ Course name: Informatika II.				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of cred	lits: 4					
Recommended s	semester/trimes	ster of the cours	e:			
Course level: II.						
Prerequisities: (and ÚINF/AIS1/ VKN/15)) or (ÚI	((UINF/KRP1/1: '15) or ((ÚINF/V INF/KKV1/15 a	5 or UINF/ARP1 YU1/15 or ÚIN nd ÚMV/KOA/1	/15) and UINF/(F/STU1/16) and 0)	OPS1/15) or (UIN (ÚINF/NEU1/15	NF/LAD1/15 5 or ÚINF/	
Conditions for a	course completi	on:				
Learning outco	mes:					
Brief outline of	the course:			-		
Recommended	literature:					
Course languag	e:					
Course assessment Total number of assessed students: 22						
A	В	С	D	E	FX	
59.09	4.55	22.73	9.09	4.55	0.0	
Provides:	Provides:					
Date of last mod	dification: 01.03	3.2017				
Approved: Guar	ranteeprof. RND	r. Viliam Geffert	, DrSc.			

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN NEU1/15	IF/ Course name: Neural networks				
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 cred	lits: 5				
Recommended	semester/trime	ster of the course	e: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for o	course complet	ion:			
Learning outco To understand a	mes: nd to know usin	g basic paradigms	s of neural netw	orks.	
Brief outline of Feed-forward an networks, a capa and solving opti computational n	the course: nd recurrent neu bility of neural r mization proble nodels. Theoreti	ral networks, bac networks to be an u ms. Kohonen neu cal problems of ne	k propagation a iniversal approx ral networks. N eural networks.	algorithm to adar simator. Hopfield feural networks in	otation of neural neural networks n connections to
Recommended literature: J. Hertz, A.Krogh, R.G. Palmer: Introduction to the theory of neural computation, Addison Wesley, 1991. V. Kvasnička a kol.: Úvod do teórie neurónových sietí, IRIS, Bratislava, 1997. J. Šíma R. Neruda: Teoretické otázky neurónových sítí Matfyzpress MFF UK. Praha 1996					Addison raha, 1996.
Course languag	e:				
Course assessment Total number of assessed students: 199					
А	В	C	D	Е	FX
14.07	13.57	24.12	23.12	20.1	5.03
Provides: doc. F	RNDr. Gabriela	Andrejková, CSc.,	, RNDr. Ľubom	ír Antoni, PhD.	·
Date of last mod	dification: 07.02	2.2017			
Approved: Guar	Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

Faculty: Faculty	of Science				
Course ID: ÚFV NOT1a/03	Course na	ame: Nontraditio	nal Optimization	Techniques I	
Course type, sco Course type: Le Recommended Per week: 2 / 2 Course method	pe and the met ecture / Practice course-load (h Per study peri- : present	thod: ours): od: 28 / 28			
Number of credi	ts: 5				
Recommended s	emester/trimes	ster of the cours	e: 3.		
Course level: I., 2	II.				
Prerequisities:					
Conditions for co Monitoring progr examination (50% examination	ourse completi ress in solving a %), quality of th	on: applied projects. ne project (50%)			
To familiarize stu and prediction techniqu heuristic techniqu Brief outline of t Fundamentals of	idents with biol chniques. To ex ies in solving a he course: coptimization	logically and phy pand students' cr pplied problems. theory. Basic of	reativity and prog	ptimization, sim gramming skills l	ulation by applying es of objective
functions. Classi Evolutionary algo Mechanics Appr annealing. Swar complex systems	fication of op orithms. Geneti oximations of m optimization . Fractals. Age	timization techn c algorithms. Ge Genetic Algori n. Cellular Auto nt-based models	iques. Gradient- enetic algorithms ithms. Monte C pmata and their . Evolutionary ga	based optimizat as Markov proce arlo simulation applications in ames. Evolution	ion techniques esses. Statistica and simulated simulations o
squares problems	Neural Netwo	orks. Application	of singular valu	ie decompositio	of cooperation n to solve leas
Fundamentals of squares problems Recommended li Hartmann, A. K., Reeves, C. R., Ro Mitchell, M., Con Solé, R. V., Phase Ilachinski, A., Ce Haykin, S., Neur	Neural Netwo terature: Rieger, H., Op we, J. E., Gene nplexity. A Gu transitions, P llular Automat al Networks. A	otimization Algor etic Algorithms: ided Tour, Oxfor rinceton Univers a. A Discrete uni Comprehensive	t of singular valu rithms in Physics, Principles and pe d University Pres ity Press, 2011 iverse, World Sci- Foundation, Pren	ue decomposition , Wiley, 2002 erspectives, Kluw ss, 2009 entific, 2002 ntice-Hall, 1999	of cooperation n to solve leas
Fundamentals of squares problems Recommended li Hartmann, A. K., Reeves, C. R., Ro Mitchell, M., Con Solé, R. V., Phase Ilachinski, A., Ce Haykin, S., Neurs Course language	Neural Netwo terature: Rieger, H., Op we, J. E., Gena nplexity. A Gu e Transitions, P ellular Automat al Networks. A :	otimization Algor etic Algorithms: ided Tour, Oxfor rinceton Univers a. A Discrete uni Comprehensive	t of singular valu rithms in Physics, Principles and pe d University Pres ity Press, 2011 iverse, World Sci- Foundation, Prer	ue decompositio , Wiley, 2002 erspectives, Kluw ss, 2009 entific, 2002 ntice-Hall, 1999	of cooperation n to solve leas
Fundamentals of squares problems Recommended li Hartmann, A. K., Reeves, C. R., Ro Mitchell, M., Cor Solé, R. V., Phase Ilachinski, A., Co Haykin, S., Neur Course language Course assessme	Neural Netwo terature: Rieger, H., Op we, J. E., Gene nplexity. A Gu e Transitions, P ellular Automat al Networks. A : nt	otimization Algor etic Algorithms: ided Tour, Oxfor rinceton Univers a. A Discrete uni Comprehensive	t of singular valu rithms in Physics, Principles and pe d University Pres ity Press, 2011 iverse, World Sci- Foundation, Prer	ue decompositio , Wiley, 2002 erspectives, Kluw ss, 2009 entific, 2002 ntice-Hall, 1999	of cooperation n to solve leas

66.67

18.18

7.58

3.03

4.55

0.0

Provides: RNDr. Branislav Brutovský, CSc.

Date of last modification: 24.02.2017

Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.

University: P. J. Š	afárik Universi	ty in Košice			
Faculty: Faculty c	of Science				
Course ID: ÚFV/ NOT1b/03	// Course name: Nontraditional Optimization Techniques II				
Course type, scop Course type: Lea Recommended of Per week: 2 / 2 F Course method:	e and the met cture / Practice ourse-load (he er study perio present	hod: ours): od: 28 / 28			
Number of credit	s: 5				
Recommended se	mester/trimes	ter of the cours	e: 4.		
Course level: I., I	[.				
Prerequisities:					
Conditions for co Presentation of the	urse completi e project in wri	on: tten form. Oral e	exam and discus	sion of the preser	nted project.
By using example and interpretation biology.	es: s from the biol of complex sys	ogy to learn app stems. Introducti	lications of opti on to new parac	mization techniqu ligms in the area	ues on study of systems
Brief outline of the Complex systems optimization tech simulated annealin dynamics, protein bioinformatics.	ne course: s, emergent b iniques on co ng, taboo searc n folding. Po	wehavior. Evolut mplex systems. h/ on selected p ppulation dynan	tionary theory Application or roblems of bior nics, metabolic	and memetics. of methods /gene nolecular simulat networks and	Application of etic algorithms, tions. Molecular complexity in
Recommended lit The actual scienti	erature: fic papers.				
Course language:					
Course assessmer Total number of a	it ssessed student	s: 39			
А	В	С	D	E	FX
87.18	5.13	5.13	2.56	0.0	0.0
Provides: doc. RN	IDr. Jozef Uliči	ný, CSc.		·	
Date of last modif	fication: 24.02	.2017			
Approved: Guaran	nteeprof. RND	r. Viliam Geffert	, DrSc.		

University: P. J	. Šafárik Univers	ity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚIN NSQL/17	NF/ Course na	me: NoSQL dat	abázy		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14 Course method: present					
Number of crea	lits: 3				
Recommended	semester/trimes	ter of the cours	e: 2., 4.		
Course level: II	•				
Prerequisities:					
Conditions for Active attendan	course completi ce at seminars, p	on: articipation on co	ommon project.		
Learning outco Know propertie NoSQL databas purpose.	mes: s of different kind ses, gain skills to	ds of NoSQL da identify the appr	tabases, have an opriate kind of l	practical experier NoSQL database f	nce with given for given
 Big data, typ Data represent Key-value data Document-ont Column-orient Graph databat Transactions Comparing the 	es of NoSQL data ntation formats atabases. riented databases. nted databases. uses. in distributed envine performance o	abases. vironment. f databases for d	ifferent kinds of	data and queries.	
 8. Comparing the performance of databases for different kinds of data and queries. Recommended literature: HARRISON G.: Next Generation Databases: NoSQL, NewSQL, and Big Data. Apress, 2015. ISBN 978-1-4842-1330-8. HILLS T.: NoSQL and SQL Data Modeling: Bringing Together Data, Semantics, and Software. Technics Publications, 2016. ISBN 978-1-6346-2109-0 					
Course languag Slovak or Engli	sh				
Course assessm	ient	te: 13			
A	B	C	D	E	FX
38.46	30.77	15.38	7.69	7.69	0.0
Provides: RND	r. Peter Gurský. H	hD.		<u> </u>	
Date of last mo	dification: 23.02	.2017			

Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science				
Course ID: ÚINF/ OPS1/15	NF/ Course name: Security of computer networks				
Course type, scop Course type: Lec Recommended c Per week: 2 / 2 P Course method:	e and the met ture / Practice ourse-load (h er study peri present	thod: ; ours): od: 28 / 28			
Number of credits	s: 5				
Recommended set	mester/trimes	ster of the cours	e: 2., 4.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lit	erature:				
Course language:					
Course assessmen Total number of as	Course assessment Total number of assessed students: 8				
A	В	С	D	Е	FX
50.0	0.0	0.0	37.5	12.5	0.0
Provides: RNDr. Rastislav Krivoš-Belluš, PhD., doc. RNDr. Jozef Jirásek, PhD.					
Date of last modif	ication: 09.02	2.2017			
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚINF/ OPSP/14	Course name: ABAP and Object and Dialogue Programming			
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 42 / 14 esent			
Number of credits: 5	5			
Recommended seme	ster/trimester of the cours	e: 2., 4.		
Course level: II.				
Prerequisities: ÚINF	/RASP/14 or ÚINF/RASP/1	6		
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c Screen, function code	ourse: es, local and global classes,	inheritance, polymorphism.		
Recommended litera	iture:			
Course language:				
Course assessment Total number of assessed students: 27				
	abs	n		
	62.96 37.04			
Provides: RNDr. Štet	Provides: RNDr. Štefan Pero			
Date of last modifica	Date of last modification: 09.02.2017			
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. J. S	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚINF PDB1/15	Course name: Organization and data processing				
Course type, sco Course type: Le Recommended Per week: 2 / 1 Course method	pe and the me ecture / Practice course-load (h Per study peri : present	thod: cours): od: 28 / 14			
Number of credi	ts: 4				
Recommended se	emester/trime	ster of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for co final exam	ourse completi	ion:			
Learning outcom To understand the when solving opt databases.	nes: e principles of imization prob	database managei lems over big dat	nent systems. T a and managing	o be able to use the parallel and distr	ne knowledge ibuted
Brief outline of the Data representation Hash-based inder optimization, transcovery manager	he course: ion, disk and exing methods nsaction mana ment, profiling	file organization , external sortin agement, parallel , data reduction	, tree-based ine g, enumeration and distribute	dexing methods of relational op ed databases, dat	B+tree, R-tree, perators, query abase security,
Recommended li 1. R. RAMAKRI Education, 2003 2. A. SILBERSC Hill Higher Educ	terature: SHNAN, J. GF HATZ, H. F. K ation, 2006	EHRKE: Database ORTH, S. SUDA	e Management S RSHAN: Datab	Systems, McGraw pase system conce	⁷ Hill Higher pts, McGraw
Course language	:				
Course assessme Total number of a	nt assessed studer	nts: 73			
A	В	C	D	Е	FX
26.03	20.55	16.44	12.33	24.66	0.0
Provides: doc. RI	NDr. Csaba Tö	rök, CSc., RNDr.	Peter Gurský, F	PhD.	
Date of last modi	ification: 09.02	2.2017			
Approved: Guara	anteeprof. RNE	Dr. Viliam Geffert	, DrSc.		
· =	-				

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN PDS1/15	ÚINF/ Course name: Parallel and distributed systems				
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	ope and the met ecture / Practice course-load (h Per study peri l: present	thod: ours): od: 28 / 14			
Number of cred	its: 4				
Recommended s	semester/trimes	ster of the cours	e: 2.		
Course level: I.,	II.				
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcome to introduce the	mes: fundamentals of	parallel and dist	ributed program	ming	
Brief outline of current parallel development, da	the course: and distributed ta structures and	architectures, bas l programming m	sic issues in para tethodologies	allel and distribut	ed applications
 Recommended literature: 1. Kenneth A. Berman and Jerome L. Paul: Algorithms: Sequential, Parallel, and Distributed, Thomson, 2005, ISBN 0-534-42057-5 2. Gregory R. Andrews: Foundations of Multithreaded, Parallel, and Distributed Programming, Addison-Wesley, 2000, ISBN 0-201-35752-6 3. Joseph JáJá: An Introduction to Parallel Algorithms, Addison-Wesley, 1992, ISBN 0-201-54856-9 4. Gerard Tel: Introduction to Distributed Algorithms, Cambridge University Press, 1994, ISBN 					
Course language:					
Course assessment Total number of assessed students: 133					
A	В	С	D	Е	FX
23.31	23.31 16.54 15.04 18.05 15.79 11.28				
Provides: doc. RNDr. Jozef Jirásek, PhD.					
Date of last mod	lification: 09.02	2.2017			
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafár	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚINF/ PDSI1/15	Course name: Pro-seminar	to diploma thesis in informatics			
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 credits: 2					
Recommended seme	ster/trimester of the cours	e: 1.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes: To inform students at end of semester stude study literature. Brief outline of the c	Learning outcomes: To inform students about areas of informatics they are suitable to work in diploma theses. In the end of semester students have to prepared themes of diploma theses, goals and recommended study literature.				
The seminar is orient	ed to problems prospective	to preparations of Diploma theses.			
Recommended literature: MEŠKO, D., KATUŠČÁK, D. Akademická príručka. 1. vyd. Vydavateľstvo Osveta : Martin, 2004. 316 s. ISBN 80-8063-150-6 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Eco, U.: Jak napsat diplomovou práci, z taliančiny Come si fa una tesi di laures, Milano, 1977, Olomouc, Votobiax. Odborná a vedecká literatúra týkajúca sa diplomovej práce podľa odporúčania vedúceho					
Course language:					
Course assessment Total number of assessed students: 427					
	abs n				
99.3 0.7					
Provides: doc. RNDr.	. Ľubomír Šnajder, PhD.				
Date of last modifica	tion: 09.02.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚINF/ Course name: Running practice PPU1a/15					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended seme	ster/trimester of the course	e: 2.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Course assessment Total number of assessed students: 154					
abs n					
97.4 2.6					
Provides: RNDr. JUDr. Pavol Sokol, PhD.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚINF/ PPU1b/15	Course ID: ÚINF/ Course name: Running practice PPU1b/15				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 3 Per study period: 42 Course method: present					
Number of credits: 3					
Recommended seme	ster/trimester of the cours	e: 3.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Course assessment Total number of assessed students: 99					
abs n					
98.99 1.01					
Provides: RNDr. JUDr. Pavol Sokol, PhD.					
Date of last modification: 07.02.2017					
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J.	University: P. J. Šafárik University in Košice				
Faculty: Faculty	of Science				
Course ID: Dek. UPJŠ/PPZ/13	Course ID: Dek. PF Course name: Personality Development and Key Competences for Success on a Labour Market				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 14s Course method: present					
Number of credi	its: 2				
Recommended s	semester/trime	ster of the cours	e: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse complet	ion:			
Learning outcom	nes:				
Brief outline of t	the course:				
Recommended l	iterature:				
Course language	e:				
Course assessment Total number of assessed students: 39					
A	В	C	D	Е	FX
100.0	100.0 0.0 0.0 0.0 0.0				
Provides: RNDr. Peter Stefányi, PhD.					
Date of last mod	Date of last modification: 13.02.2017				
Approved: Guar	Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.				

University: P. J.	University: P. J. Šafárik University in Košice				
Faculty: Faculty	Faculty: Faculty of Science				
Course ID: KPPaPZ/PPZM	g/12 Course na	ame: Psychology	and Health Psyc	hology (Master's	s Study)
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present					
Number of crea	dits: 4				
Recommended	semester/trime	ster of the cours	e:		
Course level: II	•				
Prerequisities:					
Conditions for	course complet	ion:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	ge:				
Course assessment Total number of assessed students: 226					
А	В	С	D	Е	FX
19.47	19.47 25.22 25.66 13.27 15.93 0.44				
Provides: PhDr. Anna Janovská, PhD., Mgr. Lucia Hricová, PhD.					
Date of last mo	Date of last modification: 16.02.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafárik University in Košice						
Faculty: Faculty	of Science					
Course ID: ÚIN PRJm1a/15	Course ID: ÚINF/ Course name: Software project RJm1a/15					
Course type, sco Course type: P Recommended Per week: 4 Pe Course methoo	ppe and the mo tractice course-load (er study period d: present	ethod: hours): l: 56				
Number of cred	lits: 4					
Recommended	semester/trim	ester of the cours	e: 1.			
Course level: II.						
Prerequisities:						
Conditions for a	course comple	tion:				
Learning outcom To learn a method (analysis, specifing Brief outline of The students are They report regulation defense session This semester is system specificat Project themes the enrolment for the	mes: ods in a prepara ications, solution the course: e expected to we alarly on their p before an example s mainly devote tition. will be publish- ne following ye	tion of some bigg on, implementatio vork on their own progress. Before r ination board. ed to a detailed a ed at the Comput- ear. The projects	ger software in al on, testing). on a project spe ecognition they analysis of user er Science Depa will be divided i	I phases of its life ecified by the pro- report on their pro- requirements and rtment prior to th into five areas acc	e cycle oject supervisor. ogress in public l corresponding e students final cording to their	
subjects (neural networks, computer network security, mathematical models, logic of information systems and computer graphics). The student shall enrol in one of the seminars dealing with the above subjects in accordance with the subject of his/her project.						
Recommended	literature:					
Course languag	e:					
Course assessment Total number of assessed students: 23						
А	B C D E FX					
73.91 0.0 4.35 4.35 13.04 4.35						
Provides: Mgr. A	Provides: Mgr. Alexander Szabari, PhD.					
Date of last mod	dification: 07.0	2.2017				
Approved: Guar	ranteeprof. RN	Dr. Viliam Geffer	t, DrSc.			

University: D I Šef	II. · D. I. Č. Chil. II. in the interval				
University: F. J. Sala		sity III KOSICE			
Faculty: Faculty of S	Science				
Course ID: ÚINF/ PRJm1b/15	Course name: Sofware project				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 4 Per study period: 56 Course method: present					
Number of credits:	4				
Recommended sem	ester/trimes	ster of the course	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for cour	se completi	on:			
Learning outcomest To learn a methods i (analysis, specificati	Learning outcomes: To learn a methods in a preparation of some bigger software in all phases of its life cycle (analysis, specifications, solution, implementation, testing).				
The work in the sem on a documetation o	Brief outline of the course: The work in the seminar continues on the project by a realisation of the developed solution, a work on a documetation of the project and a public presentation of the results.				solution, a work
Recommended liter	ature:				
Course language:	Course language:				
Course assessment Total number of assessed students: 9					
A	В	C	D	Е	FX
77.78	11.11	11.11	0.0	0.0	0.0
Provides: Mgr. Alexander Szabari, PhD.					
Date of last modific	ation: 07.02	2.2017			
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J.	University: P. J. Šafárik University in Košice				
Faculty: Faculty	Faculty: Faculty of Science				
Course ID: ÚIN PSDU/16	Course ID: ÚINF/ Course name: Case studies in data mining PSDU/16				
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 crea	lits: 4				
Recommended	semester/trimes	ster of the cours	e: 3.		
Course level: II	•				
Prerequisities:					
Conditions for	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	ge:				
Course assessment Total number of assessed students: 0					
A	В	С	D	Е	FX
0.0	0.0 0.0 0.0 0.0 0.0 0.0				
Provides: RNDr. Juraj Šebej, PhD., RNDr. Erik Bruoth, PhD.					
Date of last mo	Date of last modification: 09.03.2017				
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ SDI1a/15	: ÚINF/ Course name: Seminar to diploma theses in informatics			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): dy period: 28 esent			
Number of credits: 2				
Recommended seme	ster/trimester of the cours	e: 2.		
Course level: II.				
Prerequisities: ÚINF	/PDSI1/15			
Conditions for cours	e completion:			
Learning outcomes: Monitoring and publi	c presentation of work done	so fare on thesis preparation		
Brief outline of the c Every thesis has a c recognition, the follo thirty pages) and at le area, possible researc judged more strictly). help and user friendly For both parts there v	Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts.			
Recommended litera	iture:			
Course language:				
Course assessment Total number of assessed students: 146				
	abs n			
	93.84 6.16			
Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD.				
Date of last modifica	tion: 07.02.2017			
Approved: Guarantee	eprof. RNDr. Viliam Geffert	, DrSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚINF/ SDI1b/15	Course name: Seminar to diploma theses in informatics				
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	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 credits: 2	,				
Recommended seme	ster/trimester of the cours	e: 3.			
Course level: II.					
Prerequisities: UINF	/SDI1a/15				
Conditions for cours	e completion:				
Learning outcomes: Monitoring and publi	c presentation of work done	so fare on thesis preparation			
Brief outline of the c Every thesis has a c recognition, the follo thirty pages) and at le area, possible researc judged more strictly). help and user friendly For both parts there v	Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts.				
Recommended litera	ture:				
Course language:					
Course assessment Total number of assessed students: 129					
	abs n				
	99.22 0.78				
Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD.					
Date of last modifica	Date of last modification: 07.02.2017				
Approved: Guarantee	eprof. RNDr. Viliam Geffert	, DrSc.			

Faculty: Faculty of Science Course ID: ÚINF/ SDI1c/15 Course name: Seminar to diploma theses in informatics SDI1c/15 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per weck: 2 Per study period: 28 Per study period: 28 Course nethod: present Number of credits: 2 Recommended semester/trimester of the course: 4. Course level: II. Prerequisities: ÚINF/SDI1b/15 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course assessment Total number of assessed students: 115 n abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Kridlo, PhD.	University: P. J. Šafá	rik University in Košice							
Course ID: ÚINF/ SDI1c/15 Course name: Seminar to diploma theses in informatics SDI1c/15 Course type, scope and the method: Course type: Practicc Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 4. Course level: II. Prerequisities: ÚINF/SDI1b/15 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course anguage: Course language: Course anguage: Course assessment 100.0 0.0 100.0 0.0 0.0 Provides: doc. RNDr. Jozef Jirásck, PhD., RNDr. Ondrej Kridlo, PhD. Date of last modification: 09.02.2017<	Faculty: Faculty of S	cience							
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present	Course ID: ÚINF/ SDI1c/15	Course name: Seminar to	diploma theses in informatics						
Number of credits: 2 Recommended semester/trimester of the course: 4. Course level: II. Prerequisities: ÚINF/SDI1b/15 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Course language: Course language: Itotal number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Kridlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Recommended semester/trimester of the course: 4. Course level: II. Prerequisities: ÚINF/SDI1b/15 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Course language: Outon 0.0 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Kridlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Number of credits: 2	2							
Course level: II. Prerequisities: ÚINF/SDI1b/15 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Course assessment Total number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Recommended seme	ster/trimester of the cours	e: 4.						
Prerequisities: ÚINF/SDI1b/15 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Course assessment Total number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Course level: II.								
Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Course assessment Total number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Prerequisities: ÚINF	/SDI1b/15							
Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Course assessment Total number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Conditions for cours	e completion:							
Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Course language: n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc. DrSc.	Learning outcomes: Monitoring and publi	ic presentation of work done	so fare on thesis preparation						
Recommended literature: Course language: Course assessment Total number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Brief outline of the c Every thesis has a c recognition, the follo thirty pages) and at le area, possible researc judged more strictly). help and user friendly For both parts there v	Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts.							
Course language: Course assessment Total number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Recommended litera	iture:							
Course assessment Total number of assessed students: 115 abs n 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc. DrSc.	Course language:	Course language:							
absn100.00.0Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD.Date of last modification: 09.02.2017Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Course assessment Total number of assessed students: 115								
100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.		abs	n						
Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD. Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	100.0 0.0								
Date of last modification: 09.02.2017 Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Ondrej Krídlo, PhD.								
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.	Date of last modification: 09.02.2017								

University: P. J. Safa	rik Univers	ity in Kosice						
Faculty: Faculty of S	science							
Course ID: ÚINF/ SGV1/16	Course na	ame: Seminar on	computer graph	ics and vision				
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	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 credits: (3							
Recommended seme	ester/trimes	ster of the cours	e: 2.					
Course level: II.								
Prerequisities:								
Conditions for cours	se completi	on:						
Learning outcomes:								
Brief outline of the of Seminar is connected presents actual theory algorithms of compu Knowledge from the	course: to the lecture etical and ir ter graphics lecture UG	e UGR Introduction nplementation pr s, geometric moder R and good prog	on to computer g oblems. Main go elling and realist rammers experie	raphics. In semina bal in interest is o ic drawing of sce ence are supposed	ar form students riented to quick enes. 1.			
Recommended liters	ature:							
Course language:								
Course assessment Total number of assessed students: 44								
A	В	С	D	E	FX			
70.45	70.45 15.91 11.36 2.27 0.0 0.0							
Provides: RNDr. Rastislav Krivoš-Belluš, PhD., doc. RNDr. Jozef Jirásek, PhD.								
Date of last modification: 09.02.2017								
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.								

University: P. J.	. Šafárik Univers	ity in Košice					
Faculty: Facult	Faculty: Faculty of Science						
Course ID: ÚIN SPS1/15	INF/ Course name: Seminar in network programming						
Course type, sc Course type: H Recommended Per week: 3 Pe Course metho	ope and the met Practice d course-load (h er study period: d: present	thod: ours): 42					
Number of crea	lits: 3						
Recommended	semester/trimes	ster of the course	e: 1., 3.				
Course level: I.	, II.						
Prerequisities:							
Conditions for	course completi	on:					
Learning outco To render current	omes: nt technologies o	f programing in r	network distrib	uted environment.			
Brief outline of Basics of progr Procedure Calls ASP, JSP, Com Model, XML, X Advanced level	the course: ramming the clie s. Server-side pro ponent Object N XSL, dynamic ex of programming	ent-server applica gramming, CGI, J lodel, Corba, dat tensions of HTM g is expected.	ntions, iterative PHP, basics of abase connecti L.	e and concurrent s Perl and Python. S on's interfaces. D	servers, Remote Script languages, ocument Object		
Recommended Internet sources	literature: and specificatio	ns.					
Course languag	ge:						
Course assessment Total number of assessed students: 68							
А	В	С	D	E	FX		
63.24	63.24 19.12 14.71 1.47 1.47 0.0						
Provides: RNDr. Rastislav Krivoš-Belluš, PhD.							
Date of last mo	Date of last modification: 07.02.2017						
Approved: Gua	ranteeprof. RND	r. Viliam Geffert	, DrSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	cience						
Course ID: KPPaPZ/SPVKE/07	Course ID: Course name: Social-Psychological Training of Coping with Critical Life Situations						
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Number of credits: 2							
Recommended seme	ster/trimes	ter of the course: 2.					
Course level: II.							
Prerequisities:							
Conditions for cours	e completi	on:					
Learning outcomes:							
Brief outline of the c	ourse:						
Recommended litera	ture:						
Course language:							
Course assessment Total number of assessed students: 126							
abs		n	Z				
97.62 2.38 0.0							
Provides: Mgr. Ondrej Kalina, PhD.							
Date of last modification: 16.02.2017							
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.							

University: P. J.	University: P. J. Šafárik University in Košice						
Faculty: Faculty	of Science						
Course ID: ÚINI STU1/16	Course ID: ÚINF/ Course name: Machine learning STU1/16						
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 credi	ts: 5						
Recommended s	emester/trimes	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcon	nes:						
Brief outline of t	he course:						
Recommended li	iterature:						
Course language	2:						
Course assessment Total number of assessed students: 18							
A	В	С	D	Е	FX		
22.22 22.22 33.33 5.56 16.67 0.0							
Provides: doc. RNDr. Gabriela Andrejková, CSc., RNDr. Ľubomír Antoni, PhD.							
Date of last modification: 09.03.2017							
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.							

University: P. J	. Šafárik Univer	sity in Košice					
Faculty: Facult	y of Science						
Course ID: ÚI SVK1/15	Irse ID: ÚINF/ Course name: Student scientific conference K1/15 K1/15						
Course type, so Course type: Recommended Per week: Per Course metho	cope and the mo d course-load (r study period: od: present	ethod: hours):					
Number of cree	dits: 4						
Recommended	semester/trim	ester of the cours	se: 4.				
Course level: I.	, II.						
Prerequisities:							
Conditions for	course comple	tion:					
Learning outco	omes:						
Brief outline of	f the course:						
Recommended	literature:						
Course languag	ge:						
Course assessm Total number o	nent f assessed stude	nts: 138					
А	В	C	D	Е	FX		
100.0 0.0 0.0 0.0 0.0							
Provides:							
Date of last modification: 07.02.2017							
Approved: Gua	aranteeprof. RN	Dr. Viliam Geffer	t, DrSc.				

University: P. J. Šafárik University in Košice									
Faculty: Faculty of Science									
Course ID: ÚINF/ SWB/15	Course name: Semantic web								
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 3 Per study period: 42 Course method: present									
Number of credits: 4	4								
Recommended seme	ester/trimes	ster of the cours	e: 2.						
Course level: II.									
Prerequisities:									
Conditions for cours	se completi	on:							
Learning outcomes: To understand semantic web languages RDF, RDFS, OWL, ability to use them ina practical semantic web applications, experience with ontology modelling and communication with ontology databases.									
 Semantic web - mo XML, syntax, prog Examples in of proce Semantic web mod Semantic web quer Software tools: Jen Introduction to Des Inferencing in Desc 	 Semantic web - motivation, problems, visions. XML, syntax, programming models DOM, SAX, StAX, namespaces in XML, XPath, XQuery. Examples in of processing in Java. Semantic web modelling languages: RDF, RDFS, OWL Semantic web query language SPARQL Software tools: Jena, Sesame, Protege, Ontopia Introduction to Description logic 								
Recommended literature: [1]Grigoris Antoniou and Frank van Harmelen: Semantic Web Primer, Second Edition. MIT Press, 2008. ISBN: 978-0-262-01242-3 [2] Franz Baader, Diego Calvanese, Deborah McGuinness, Daniele Nardi, Peter Patel-Schneider: The Description Logic Handbook. Theory, Implementation and Applications [3] http://www.openrdf.org/ [4] http://protege.stanford.edu/ [5] http://jena.sourceforge.net/ [6] http://www.w3.org/TR/rdf-sparql-query/									
Course language:									
Course assessment									
Total number of asse	ssed studen	ts: 49	D	F					
A	B		D		FX				
/3.4/	8.16	10.2	2.04	2.04	4.08				

Provides: RNDr. Peter Gurský, PhD.

Date of last modification: 09.02.2017

Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.

University: P. J.	Šafárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN TDB1/15	NF/ Course name: Development of web-oriented database applications							
Course type, sc Course type: F Recommended Per week: 2 Pe Course metho	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 cred	lits: 2							
Recommended	semester/trimes	ster of the cours	e: 2.					
Course level: II								
Prerequisities:								
Conditions for Work on a proje Presentation of	course completi ect. a project.	on:						
Learning outco To learn modern database server	mes: n methods for a c ORACLE and p	levelopment of w rogramming tech	veb-oriented app iniques in JAVA	olications with en	nphasis on			
Brief outline of Oracle SQL Dat Java JDBC API	the course: a Manipulation I Java Database (Language. Oracle Connectivity. Java	e SQL Data Defi a JDBC API. Ja	nition Language. va JSP. JSTL.	Oracle PL/SQL.			
Recommended 1. http://www.or	literature: racle.com							
Course languag	je:							
Course assessment Total number of assessed students: 1								
А	В	С	D	E	FX			
0.0	0.0 0.0 100.0 0.0 0.0 0.0							
Provides: doc. RNDr. Csaba Török, CSc.								
Date of last modification: 07.02.2017								
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.								

University: P. J. Š	University: P. J. Šafárik University in Košice							
Faculty: Faculty o	Faculty: Faculty of Science							
Course ID: ÚINF/ TIK1/15	Course ID: ÚINF/ Course name: Information theory, encoding TIK1/15							
Course type, scop Course type: Lec Recommended c Per week: 2 / 1 P Course method:	e and the met eture / Practice ourse-load (h er study peri present	thod: ; ours): od: 28 / 14						
Number of credit	s: 4							
Recommended se	mester/trimes	ster of the cours	e: 1.					
Course level: II.								
Prerequisities:								
Conditions for co	urse completi	on:						
Learning outcome	es:							
Brief outline of th	e course:							
Recommended lit	erature:							
Course language:								
Course assessmen Total number of as	Course assessment Total number of assessed students: 56							
A	В	С	D	Е	FX			
55.36	55.36 14.29 12.5 5.36 0.0 12.5							
Provides: doc. RNDr. Stanislav Krajči, PhD.								
Date of last modification: 07.02.2017								
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.								
University:	P. J. Šafár	ik University i	n Košice					
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Faculty: Fa	culty of So	cience						
Course ID: TVa/11	Course ID: ÚTVŠ/ Course name: Sports Activities I. Va/11							
Course typ Course typ Recomme Per week: Course me	e, scope an pe: Practic nded cour 2 Per stue ethod: pres	nd the method e se-load (hours ly period: 28 sent	: 5):					
Number of	credits: 2							
Recommen	ded semes	ter/trimester	of the cours	se: 1.				
Course leve	e l: I., I.II.,	II.						
Prerequisit	ies:							
Conditions	for cours	e completion:						
Learning o	utcomes:							
Brief outlin	e of the co	ourse:						
Recommen	ded litera	ture:						
Course lan	guage:							
Course asso Total numb	essment er of asses	sed students: 1	0457					
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
88.25	0.0	0.0	0.0	0.0	0.02	7.81	3.92	
Provides: M Dávid Kašk Uher, PhD., Mgr. Marce	Igr. Peter I o, Mgr. Zu Mgr. Mar I Čurgali, o	Bakalár, PhD., zana Küchelov ek Valanský, pr loc. PhDr. Ivar	Mgr. Dana I ڇ, PhD., Pac rof. RNDr. S 1 Šulc, CSc.	Dračková, Ph edDr. Jana Po tanislav Vok	D., Mgr. Aga otočníková, F ál, DrSc., Ma	ata Horbacz, PhD., doc. Pa gr. Aurel Zel	PhD., Mgr. aedDr. Ivan lko, PhD.,	
Date of last	modifica	tion: 23.02.201	17					
Approved:	Guarantee	prof. RNDr. Vi	iliam Geffer	t, DrSc.				

University:	P. J. Šafár	ik University i	n Košice			18		
Faculty: Faculty of Science								
Course ID: TVb/11	Durse ID: ÚTVŠ/ Course name: Sports Activities II. 7b/11							
Course typ Course typ Recomme Per week: Course me	e, scope an pe: Practic nded cour 2 Per stud ethod: pre	nd the method e se-load (hours ly period: 28 sent	: 3):					
Number of	credits: 2							
Recommen	ded semes	ster/trimester	of the cours	se: 2.				
Course leve	el: I., I.II.,	II.						
Prerequisit	ies:							
Conditions	for cours	e completion:						
Learning o	utcomes:							
Brief outlin	e of the co	ourse:						
Recommen	ded litera	ture:						
Course lang	guage:							
Course asso Total numb	e ssment er of asses	sed students: 9	779					
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs	
85.09	0.61	0.02	0.0	0.0	0.02	10.36	3.9	
Provides: Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., PaedDr. Jana Potočníková, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., Mgr. Marcel Čurgali, doc. PhDr. Ivan Šulc, CSc.								
Date of last modification: 23.02.2017								
Approved:	Guarantee	prof. RNDr. Vi	iliam Geffer	t, DrSc.				

University:	P. J. Šafár	ik University i	n Košice						
Faculty: Fa	Faculty: Faculty of Science								
Course ID: TVc/11	Course ID: ÚTVŠ/ Course name: Sports Activities III.								
Course typ Course typ Recomme Per week: Course me	e, scope an pe: Practic nded cour 2 Per stud ethod: pre	nd the method e se-load (hours ly period: 28 sent	l: s):						
Number of	credits: 2								
Recommen	ded semes	ter/trimester	of the cours	se: 3.					
Course leve	el: I., I.II.,	II.							
Prerequisit	ies:								
Conditions	for cours	e completion:							
Learning o	utcomes:								
Brief outlin	e of the co	ourse:							
Recommen	ded litera	ture:							
Course lang	guage:								
Course asso Total numb	essment er of asses	sed students: 6	188						
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs		
89.66	0.03	0.0	0.0	0.0	0.0	4.36	5.95		
Provides: PaedDr. Jana Potočníková, PhD., Mgr. Marcel Čurgali, Mgr. Peter Bakalár, PhD., Mgr. Dana Dračková, PhD., Mgr. Agata Horbacz, PhD., Mgr. Dávid Kaško, Mgr. Zuzana Küchelová, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Marek Valanský, prof. RNDr. Stanislav Vokál, DrSc., Mgr. Aurel Zelko, PhD., doc. PhDr. Ivan Šulc, CSc.									
Date of last modification: 23.02.2017									
Approved:	Guarantee	prof. RNDr. Vi	iliam Geffer	t, DrSc.					

University:	University: P. J. Šafárik University in Košice								
Faculty: Fa	Faculty: Faculty of Science								
Course ID: TVd/11	urse ID: ÚTVŠ/ Course name: Sports Activities IV. /d/11								
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	credits: 2								
Recommen	ded semes	ter/trimester	of the cours	e: 4.					
Course leve	e l: I., I.II.,	II							
Prerequisit	ies:								
Conditions	for course	completion:							
Learning of	utcomes:								
Brief outlin	e of the co	ourse:							
Recommen	ded literat	ture:							
Course lang	guage:								
Course asse Total numb	essment er of asses	sed students: 4	644						
abs	abs-A	abs-B	abs-C	abs-D	abs-E	n	neabs		
85.66	0.32	0.04	0.0	0.0	0.0	6.61	7.36		
Provides: M Horbacz, Ph PhD., doc. F Mgr. Aurel	Igr. Marce D., Mgr. I PaedDr. Iva Zelko, PhI	l Čurgali, Mgr Dávid Kaško, N In Uher, PhD., D., doc. PhDr. 1	: Peter Bakal Agr. Zuzana Mgr. Marek Ivan Šulc, CS	ár, PhD., Mg Küchelová, I Valanský, pr Sc.	gr. Dana Drač PhD., PaedD rof. RNDr. S	šková, PhD., r. Jana Potoč tanislav Voka	Mgr. Agata níková, ál, DrSc.,		
Date of last modification: 23.02.2017									

University: P. J.	Šafárik Univer	sity in Košice					
Faculty: Faculty	of Science						
Course ID: KPPaPZ/UPR/03 Course name: The Art of Aiding by Verbal Exchange							
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ope and the me Practice I course-load (I er study period d: present	thod: nours): : 28					
Number of cred	lits: 2						
Recommended	semester/trime	ster of the cours	e: 4.				
Course level: II.							
Prerequisities:							
Conditions for o	course complet	ion:					
Learning outco	mes:						
Brief outline of	the course:						
Recommended	literature:						
Course languag	ge:						
Course assessm Total number of	ent fassessed studer	nts: 49					
Α	В	C	D	Е	FX		
85.71	4.08	2.04	2.04	2.04	4.08		
Provides: Mgr.	Ondrej Kalina, l	PhD.					
Date of last mo	dification: 16.0	2.2017					
Approved: Guar	ranteeprof. RNI	Dr. Viliam Geffer	, DrSc.				

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ UUI1/15	Course name: Introduction to artificial intelligence
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	nd the method: re rse-load (hours): dy period: 28 esent
Number of credits: 3	
Recommended seme	ster/trimester of the course: 2., 4.
Course level: II.	
Prerequisities:	
Conditions for cours home work and writte final exam	e completion: en tests
Learning outcomes: The goal of the cours a student it is possible	e is to achieve basic information about artificial intelligence techniques. For e to study more deeply from literature, if needed.
Brief outline of the c Goal of artificial intel representation in AI (informed versus info iterative enhancemen constraint logic pro- described objects recc and describtion, obj knowledge systems (information), genetic	ourse: lligence, natural intelligence, edges of agent machine intelligence, knowledge semantic networks, frames), reasoning. Problem solving in status space - non- rmed deep and wide search, A*, solving of problems described as the game, at algorithms, problem solving by decomposition. Planning and scheduling, gramming, machine learning, computer vision - image recognition (flag ognition, structural scene analysis), image preprocessing, image representation ect recognition. Natural language processing, artificial neural networks, structure, charakteristcs, direct and backward reasoning, working with vague algorithms, distributed artificial intelligence and multi-agent systems.
Recommended litera Russell S.J., Norvig I 2002, ISBN: 013790 Negnevitsky Michael Addison Wesley, 200 Luger George: Artific (5th Edition), Addiso	Ature: P: Artificial Intelligence: A Modern Approach (2nd Edition), Prentice Hall, 3952 I: Artificial Intelligence: A Guide to Intelligent Systems (2nd Edition), 4, ISBN: 0321204662 cial Intelligence: Structures and Strategies for Complex Problem Solving n Wesley, 2004, ISBN: 0321263189
Course language:	

Course assessment Total number of assessed students: 89

А	В	С	D	Е	FX
65.17	16.85	12.36	3.37	2.25	0.0

Provides: doc. Ing. Norbert Kopčo, PhD.

Date of last modification: 07.02.2017

University: P. J. Š	afárik Univers	ity in Košice					
Faculty: Faculty of Science							
Course ID: ÚINF/ VEP1/15Course name: Formal methods in a verification							
Course type, scop Course type: Le Recommended o Per week: 2 / 2 I Course method:	be and the met cture / Practice course-load (h Per study peri present	thod: c ours): od: 28 / 28					
Number of credit	as: 5						
Recommended se	emester/trimes	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcom	es:						
Brief outline of th	ne course:						
Recommended lit	terature:						
Course languages	:						
Course assessmen Total number of a	nt ssessed studen	ts: 30					
A	В	С	D	Е	FX		
33.33	23.33	16.67	16.67	3.33	6.67		
Provides: doc. RN	NDr. Gabriela A	Andrejková, CSc.	, Mgr. Alexande	r Szabari, PhD.			
Date of last modi	fication: 07.02	2.2017					
Approved: Guara	nteeprof. RND	r. Viliam Geffert	, DrSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚINF/ Course name: Výpočty v prostredí SAP HANA VHSP/17							
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 0 / 2 Per study period: 0 / 28 Course method: present							
Number of credits: 2							
Recommended seme	ster/trimester of the course						
Course level: II.							
Prerequisities:							
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c	ourse:						
Recommended litera	ture:						
Course language:							
Course assessment Total number of asses	ssed students: 0						
	abs	n					
0.0 0.0							
Provides: Ing. Miron Kuzma, PhD.							
Date of last modification: 29.06.2017							
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.							

University: P. J. Šafárik University in Košice							
Faculty: Facult	y of Science						
Course ID: ÚM VKM/10	MV/ Course name: Selected topics in mathematics						
Course type, sc Course type: I Recommended Per week: 2 / 2 Course metho	ope and the met Lecture / Practice d course-load (h 2 Per study perio d: present	thod: ours): od: 28 / 28					
Number of crea	lits: 5						
Recommended	semester/trimes	ster of the cours	e: 1.				
Course level: II	•						
Prerequisities:							
Conditions for Awarded accord points).	course completi ling to tests durin	on: ng semester (40 p	ooints), written e	exam (20 points), o	oral exam (40		
Learning outco Students learn t linear and integ	mes: he fundamentals er optimalization	of probability th . The emphasis i	eory, random pros s on practical ap	ocesses, algebra o plications.	f polynomials,		
Brief outline of Probability: cla geometrical pro Random process Polynomials ov Formulation of for integer prog	the course: assical definition bability. ses, Markov chai er a field. Decon linear and integer ramming.	n, conditional pr ins. position into irro programs. Grap	robability, chara educible factors. hic solution. Sin	acteristics of ran Roots of polynom plex method. Dua	dom variables, nials. ality. Algorithm		
Recommended G. Birkhoff, S. T. Katriňák a ko Plesník, Dupáčo Riečan a kol.:Pr Skřivánková V.	literature: MacLane: Prehľa ol.: Algebra a teo ová, Vlach: Linea ravdepodobnosť : Pravdepodobno	ad modernej alge retická aritmetik árne programova a matematická št sť v príkladoch,	bry, Alfa Bratisl a 1, Alfa Bratisl nie, Alfa, Bratis atistika, Alfa, B UPJŠ, Košice, 2	ava, 1979 ava, 1985 lava 1990 ratislava, 1984 006			
Course languag Slovak	ge:						
Course assessm Total number of	ent f assessed studen	ts: 53					
А	В	С	D	E	FX		
18.87	18.87	22.64	15.09	22.64	1.89		
Provides: doc.]	RNDr. Miroslav I	Ploščica, CSc., d	oc. RNDr. Roma	an Soták, PhD.			
Date of last modification: 22.02.2017							
Approved: Gua	ranteeprof. RND	r. Viliam Geffert	, DrSc.				

University: P. J. Š	afárik Univers	ity in Košice					
Faculty: Faculty o	Faculty: Faculty of Science						
Course ID: ÚINF/ VKN/15	IF/ Course name: Computational and cognitive neuroscience						
Course type, scop Course type: Lec Recommended c Per week: 2 / 2 P Course method:	e and the met eture / Practice ourse-load (h er study perio present	hod: ours): od: 28 / 28					
Number of credit	s: 5						
Recommended se	mester/trimes	ter of the cours	e: 3.				
Course level: II.							
Prerequisities:							
Conditions for co project, exam	urse completi	on:					
Learning outcome Advanced topics i with focus on come Prerequisite: Intro	es: n study of the putational con to Neurosicen	central nervous s cepts important	ystem and cogni in the study of co	tive processes in ognitive and neur	human, al sciences.		
Brief outline of th Selected topics in methods of theore and system-theory models of the hun plasticity.	e course: cognitive sci tical study in o principles in nan visual and	ence (following cognitive and neu modeling of co auditory system	up on Intro to N ural science, incl ognitive processo s, learning, think	Neuroscience). C uding connection es and neural ci ting, attention, do	Overview of the nistic, statistical rcuits. Selected evelopment and		
Recommended lit HERTZ, J., KROC Addison-Wesley 1 KANDEL, E. R., S McGraw-Hill, 200 DAYAN, P. and A Modeling of Neur	erature: GH, A. and PA 991 SCHWARTZ, 00 BBOTT, L. F.: al Systems. M	LMER R. G.: Int J. H. and JESSE Theoretical Neu IT Press, 2001	troduction to the LL, T.M.: Princip troscience – Corr	theory of neural ples of Neural Sc nputa-tional and 1	computation. vience. Mathematical		
Course language: Slovak or English							
Course assessmen Total number of as	t ssessed studen	ts: 5					
A	В	С	D	Е	FX		
40.0	20.0	40.0	0.0	0.0	0.0		
Provides: doc. Ing	. Norbert Kop	čo, PhD., Ing. Be	eáta Tomoriová, 1	PhD.			
Date of last modification: 09.02.2017							
Approved: Guaran	nteeprof. RND	r. Viliam Geffert	, DrSc.				

University: P. J.	Šafárik Univer	sity in Košice						
Faculty: Faculty	y of Science							
Course ID: ÚIN VYU1/15	NF/ Course name: Computational learning							
Course type, sc Course type: I Recommended Per week: 2 / 1 Course metho	ope and the mo Lecture / Practic l course-load (1 l Per study per d: present	ethod: e hours): iod: 28 / 14						
Number of cred	lits: 5							
Recommended	semester/trime	ester of the cours	e: 2.					
Course level: II	•							
Prerequisities:								
Conditions for Recognition, or	course comple t al examination.	tion:						
Learning outco To provide the s	mes: students basic k	nowledge about co	omputational lea	arning algorithms.				
Brief outline of Concepts, hype algorithms for c learning, probab (VC) dimension	the course: otheses, learnin lisjunctions. Pro oly approximate a and learning a	ng algorithms. B babilistic learning ly correct (PAC) l lgorithms.	oolean formul g, consistent alg earning, Occam	ae and represent orithms and learna algorithms, Vapn	ation, learning ability, efficient ik-Cervonenkis			
Recommended M. Anthony, N. M. J. Kearns, U London, 1994.	literature: Biggs: Comput. V. Vazirani: A	tational Learning n Introduction to (Theory, Cambri Computational 1	dge University Pre Learning Theory, I	ess, 1991. MIT Press			
Course languag	ge:							
Course assessm Total number of	ent f assessed stude	nts: 18						
Α	В	C	D	Е	FX			
22.22	22.22	33.33	5.56	16.67	0.0			
Provides: doc. I	RNDr. Gabriela	Andrejková, CSc.		<u> </u>				
Date of last mo	dification: 07.0	2.2017						
Approved: Gua	ranteeprof. RN	Dr. Viliam Geffert	, DrSc.					

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚINF/ Course name: Computational complexity /YZ1/15					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	nd the method: re rse-load (hours): dy period: 28 esent				
Number of credits: 4					
Recommended seme	ster/trimester of the course: 1.				
Course level: II.					
Prerequisities:					
Conditions for cours Oral examination.	e completion:				
Learning outcomes: To give the students t completeness.	he theoretical background in computational complexity and theory of NP-				
Deterministic and Deterministic simulat Another NP-complet satisfiability, 3-color balancing, Space I Savitch theorem. Clo Complete problems for	ourse: nondeterministic algorithms with polynomial time, NP-completeness. tion of a nondeterministic Turing machine. Satisfiability of Boolean formulae. the problems: satisfiability of a formula in a conjunctive normal form, 3- ability of a graph, 3-colorability of a planar graph, knapsack problem, bounded computations, classes L, NL, PSPACE. Deterministic simulation - sure under complement. for classes NL, P, and PSPACE.				
 Recommended literature: 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. L.A.Hemaspaandra, M.Ogihara: Complexity theory companion, EATCS series, texts in computer science, Springer-Verlag, 2002. S. Arora, B. Barak: Computational Complexity: A Modern Approach, Cambridge Univ. Pess, 2009. G.Brassard, P.Bradley: Fundamentals of algorithmics, Prentice Hall, 1996. D.P.Bovet, P.Crescenzi: Introduction to the theory of complexity, Prentice Hall, 1994. C. Calude and J. Hromkovič: Complexity: A Language-Theoretic Point of View, in G. Rozenberg and A. Salomaa, Handbook of Formal Languages II, Springer, 1997. 					
Course language:					
Course assessment Total number of asses	ssed students: 296				

А	В	С	D	Е	FX	
57.77	14.86	11.15	7.77	8.11	0.34	
Provides: prof. RNDr. Viliam Geffert, DrSc.						
Date of last modification: 07.02.2017						
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚINF/ ZNA1/15	Course na	me: Foundation	s of knowledge s	systems	
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 credits	: 4				
Recommended sen	nester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcome The goal is to teach especially in databa	Learning outcomes: The goal is to teach students some advanced applications of logic into computer science, especially in database and knowledge systems.				
Logic formulas, semantic, models and logical inference. Herbrand model, construction and usability. SLD-resolution and query, SLD trees. Logic and databases, relational databases, deductive databases. Logic and expert systems. Basic notions of Lattice Theory and Formal Concept Analysis (FCA). Basic notions of Fuzzy logic and Fuzzy extension of FCA. Optimal table decomposition, factorisation. Intercontextual structures, bonds.					
Recommended literature: Shawn Hedman. A first course in logic: An introduction to model theory, proof theory, computability and complexity. Oxford university press, ISBN 0–19–852980–5, 2006. Shan-Hwei Nienhuys-Cheng, Ronald de Wolf. Foundations of Inductive Logic Programming. Springer-Verlag, ISBN 3-540-62927-0, 1997. Kristian Kersting. An Inductive Logic Programming Approach to Statistical Relational Learning, IOS Press, ISBN 1-58603-674-2, 2006. Nilsson U., Maluszynski J.: Logic, Programming and Prolog, John Wiley & Sons Ltd. 1995. Bělohlávek R.: Fuzzy Relational Systems: Foundations and Principles. Kluwer, Academic/ Plenum Publishers, New York, 2002. Ganter B., Wille R.: Formal Concept Analysis: Mathematical Foundations, Springer Berlin, 1999.					
Course language:					
Course assessment Total number of assessed students: 43					
A	В	С	D	E	FX
37.21	4.65	25.58	11.63	13.95	6.98
Provides: doc. RNDr. Stanislav Krajči, PhD., RNDr. Ondrej Krídlo, PhD.					
Date of last modification: 07.02.2017					

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚINF/ ZTSP/14	Course name: Essentials of the SAP Technology			
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 credits: 4				
Recommended semester/trimester of the course: 1., 3.				
Course level: II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the course: Defining mySAP Technology (Products, Innovations provided by SAP), Navigation (Logon, Screen Design, Calling Functions), System Kernel (Client/Server Architecture, Structure of an SAP system, Processing in SAP), Communication and Integration Technologies (Remote Function Calls, Internet Technologies).				
Recommended literature:				
Course language:				
Course assessment Total number of assessed students: 163				
	abs	n		
	100.0	0.0		
Provides: Ing. Katarína Nináčová, RNDr. Štefan Pero, Ing. Slávka Šimková, PhD., RNDr. Edita Vojtová				
Date of last modification: 09.02.2017				
Approved: Guarantee	Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aerobic Exercise				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: Per study period: 36s Course method: present					
Number of credits: 2					
Recommended semester/trimester of the course:					
Course level: I., II.					
Prerequisities:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:	Course language:				
Course assessment Total number of assessed students: 15					
	abs n				
	26.67 73.33				
Provides: Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.					
Date of last modification: 23.02.2017					
Approved: Guaranteeprof. RNDr. Viliam Geffert, DrSc.					