University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ OPSP/14	Course name: ABAP and	Object and Dialogue Programming
Course type, scope Course type: Lectu Recommended cou Per week: 3 / 1 Per Course method: pr	rre / Practice Trse-load (hours): study period: 42 / 14	
Number of credits:	5	
Recommended sem	ester/trimester of the cours	e: 2., 4.
Course level: I., II.,	N	
Prerequisities: ÚIN	F/RASP/14 or ÚINF/RASP/1	6
Conditions for cour	se completion:	
Learning outcomes	:	
Brief outline of the Screen, function coc	course: les, local and global classes,	inheritance, polymorphism.
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 26	
	abs	n
	61.54	38.46
Provides:		
Date of last modific	ation: 03.05.2015	
Approved: prof. RN	Dr. Viliam Geffert, DrSc.	

University: P I Šafá	rik University in Košice
Faculty: Faculty of S	
Course ID: ÚINF/ AOS1/15	Course name: Administration of OS
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of credits: 2	
Recommended seme	ster/trimester of the course: 1., 3.
Course level: I., II.	
Prerequisities:	
Conditions for cours	e completion:
Learning outcomes: To be able to install L several network dean	inux based system, divide disks, to know how to install, configure and manage nons.
	work services ewall settings e, php, mysql) (SNMP, MRTG) o, imap, postfix) II. irtualization (Hyper-V OpenVZ)
 Stanek, W.: Windo Shah, S. Soyinka, Y 	ion Project, 4 updated edition. Brno: Computer Press (2008). ws Server 2012 Inside Out. Microsoft Press (2013) W. Administration Linux. Grade (2007) Linux. Brno: Computer Press (2008)
Course language:	

Course assessm Total number of	nent f assessed studen	ts: 70			
А	В	С	D	Е	FX
52.86	22.86	2.86	5.71	8.57	7.14
Provides: RND	r. Peter Gurský, l	PhD., RNDr. JUI	Dr. Pavol Sokol, I	PhD.	
Date of last mo	dification: 17.09	0.2015			
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.			

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty of	of Science				
Course ID: KFaD AFS/05	DF/ Course na	me: Ancient Phi	losophy and Pre	esent Times	
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	actice course-load (he study period:	ours):			
Number of credit	as: 2				
Recommended se	emester/trimes	ter of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	o n:			
Learning outcom	es:				
Brief outline of th	ne course:				
Recommended lit	terature:				
Course language:					
Notes:					
Course assessmen Total number of a	-	ts: 30			
A	В	С	D	E	FX
83.33	6.67	6.67	0.0	3.33	0.0
Provides: Doc. Ph	nDr. Peter Nezr	ník, CSc.			
Date of last modi	fication: 03.05	.2015			
Approved: prof. H	RNDr. Viliam (Geffert, DrSc.			

University: P. J.	. Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚIN APA1/15	VF/ Course na	ame: Approxima	tion algorithms		
Recommended	Lecture / Practice I course-load (h I Per study peri	e ours):			
Number of crea	lits: 5				
Recommended	semester/trime	ster of the cours	e: 3.		
Course level: II	•				
Prerequisities:					
Conditions for	course completi	on:			
Learning outco To learn basic of error probability	conceptions of ra	andomized algor	ithms and to clas	ssify the algorith	ims due to their
Las Vegas algor Carlo algorithm algorithms with problem, appropriate problems and a	f Probability The rithms. One side ns. Two sided un h polynomial ti pximation algori pproximation so . FPTAS. PTAS.	ory. Basic random d error Monte Ca nbounded error I me complexity thm, relative er lutions. Classific TSP problem and	arlo algorithms. Monte Carlo algo and relationship ror, approximati ation of optimisa	Two sided bound orithms. Classes is between them ion ratio. Speci ation problems b	ded error Monte of randomized n. Optimisation al optimisation pased upon their
Course languag					
Notes:	;c				
Course assessm	ent f assessed studen				
А	В	С	D	Е	FX
25.0	14.13	19.57	15.22	25.0	1.09
Provides: prof.	RNDr. Viliam G	effert, DrSc., RN	Dr. Ondrej Krídl	o, PhD.	
Date of last mo	dification: 03.05	5.2015			
Approved: prof	. RNDr. Viliam	Geffert, DrSc.			
		r			

University: P. J.	Safárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚFV BSIM1/14	// Course na	ame: Biomolecul	ar Simulations		
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study peri	e ours):			
Number of cred	its: 5				
Recommended :	semester/trimes	ster of the cours	e: 4.		
Course level: II.					
Prerequisities:					
programs on pro	presentation of ject given at the			t. Development o	f own computer
Learning outcom Introduction to a		tics of biomolecu	lar simulations.		
as flow of biolog mechanisms. Ex force fields and Carlo methods - approaches. Co	cteristics of biol gical information operimental met d methods of o algorithms and mputational cha energy evaluat	n. 3D-structure ar chods of structure classical molecul l paralelization. < allenges in biom ion, protein fold	nd function of fo e determination lar dynamics. M <i>Ab initio</i> olecular simula	atral dogma of mo ldamers. Recent and their limitat Molecular dynam molecular dynar tions - simulatio onal complexity	view on enzyme tions. Empirical hics and Monte mics and hybrid ons of chemical
Recommended Actual literature		by lecturer.			
Course languag	e:				
Notes:					
Course assessm Total number of		nts: 34			
А	В	С	D	E	FX
76.47	8.82	11.76	0.0	2.94	0.0
	0.02	111,0	0.0		0.0
Provides: doc. R			0.0		
	NDr. Jozef Ulič	ćný, CSc.	0.0		

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ KKV1/15	Course name: Classical and quantum computations
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	e / Practice rse-load (hours): study period: 42 / 14
Number of credits: 6	
Recommended seme	ster/trimester of the course: 1., 3.
Course level: II.	
Prerequisities:	
Conditions for cours Written work Written and oral exam	-
Learning outcomes: To provide informati and quantum models	on on quantum computer and quantum computations. To compare classical and methods.
algorithms, probabili an algorithm. Introd superoperators), univ factoring algorithm, a	ourse: ical theory of computation: Turing machines, Boolean circuits, parallel stic computation, NP-complete problems, and the idea of complexity of uction of general quantum formalism (pure states, density matrices, and versal gate sets and approximation theorems. Grover's algorithm, Shor's and the Abelian hidden subgroup problem. Parallel quantum computation, a 'NP-completeness, and quantum error-correcting codes.
Quantum Computers. 2. GRUSKA, J. Quan 3. JOHNSON, G. A S 4. KITAEV, A.Y., SH Mathematical Society 5. NIELSEN, M.A., O Cambridge Universit	OOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to World Scientific, 2003. Atum Computing. McGraw-Hill, 1999. Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. EN, A.H., VYALYI, M.N. Classical and Quantum Computation. American 7, 2002. CHUANG, I.L. Quantum Computation and Quantum Information.
Course language:	
Notes:	

Course assessm Total number of	nent f assessed studen	ts: 80			
А	В	С	D	Е	FX
23.75	33.75	11.25	17.5	10.0	3.75
Provides: doc. 1	RNDr. Gabriel Se	emanišin, PhD., I	RNDr. Zuzana Be	ednárová, PhD.	
Date of last mo	dification: 03.05	5.2015			
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Univer	rsity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN KPI1/15	F/ Course 1	name: Coding and	d information trar	nsfer	
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	ecture / Practic course-load (Per study per	ce hours):			
Number of cred	its: 4				
Recommended	semester/trim	ester of the cours	se: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for a	course comple	tion:			
Learning outcome To provide the second compression.		wledge of basic p	principles of info	rmation theory, c	coding and data
coding, applica compression. So	tions. Arithme calar and vectors. Transform co	eory, entropy, Materic coding, diction or quantizations. I oding, DFT, DCT, npression.	onary techniques Differential enco	s, applications. ding, delta modu	Lossless image lation, subband
CRC Pr.,1998 K. Sayood: Intro	G. Harris, P. Jo	ohnson: Introducti ta Compression, N ation Theory, ČVU	Aorgan Kaufman	n, 1996	a Compression,
Course languag	e:				
Notes:					
Course assessm Total number of		ents: 90			
А	В	С	D	E	FX
20.0	14.44	18.89	14.44	31.11	1.11
Provides: doc. R	NDr. Stanislav	V Krajči, PhD., do	c. RNDr. Jozef Ji	rásek, PhD.	·
D					
Date of last mod	lification: 03.0	05.2015			

University: P. J. Šat	fárik Univers	ity in Košice	
Faculty: Faculty of	Science		
Course ID: KPPaPZ/KK/07	Course na	me: Communication and Coop	eration
Course type, scope Course type: Prac Recommended co Per week: 2 Per st Course method: p	tice urse-load (h tudy period:	ours):	
Number of credits:	2		
Recommended sem	ester/trimes	ter of the course: 3.	
Course level: II.			
Prerequisities:			
Conditions for cou	rse completi	on:	
Learning outcomes	5:		
Brief outline of the	course:		
Recommended lite	rature:		
Course language:			
Notes:			
Course assessment Total number of ass		ts: 281	
abs		n	Z
98.22		1.78	0.0
Provides: Mgr. Ond	lrej Kalina, P	hD.	
Date of last modified	cation: 03.05	.2015	
Approved: prof. RN	NDr. Viliam (Geffert, DrSc.	

University: P. J					
Faculty: Facult	y of Science				
Course ID: ÚI VKN/15	NF/ Course n	ame: Computation	onal and cognitiv	e neuroscience	
Course type: Recommende	cope and the me Lecture / Practic d course-load (l 2 Per study per od: present	e hours):			
Number of cre	dits: 5				
Recommended	semester/trime	ester of the cours	se: 3.		
Course level: I	I				
Prerequisities:					
Conditions for project, exam	course complet	tion:			
Learning outco Advanced topi		the central nerv	ous system and	cognitive proce	esses in human,
	-	concepts importat	•	of cognitive and i	neural sciences.
Prerequisite: In Brief outline of Selected topics methods of the and system-the	computational c thro to Neurosice f the course: s in cognitive sc oretical study in cory principles i	concepts important ence cience (following cognitive and ne in modeling of c	up on Intro to cural science, inc	Neuroscience). C luding connection ses and neural ci king, attention, de	Overview of the nistic, statistical ircuits. Selected
Prerequisite: In Brief outline of Selected topics methods of the and system-the models of the l plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. H McGraw-Hill, DAYAN, P. and	computational c atro to Neurosice f the course: s in cognitive sc oretical study in eory principles in numan visual and literature: COGH, A. and PA ey 1991 R., SCHWARTZ 2000	concepts important ence cience (following cognitive and ne in modeling of c d auditory system ALMER R. G.: In , J. H. and JESSE	up on Intro to eural science, inc cognitive process ns, learning, thin attroduction to the CLL, T.M.: Princi	Neuroscience). C luding connection ses and neural ci	Dverview of the nistic, statistical ircuits. Selected evelopment and computation.
Prerequisite: In Brief outline of Selected topics methods of the and system-the models of the l plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. H McGraw-Hill, DAYAN, P. and	computational c atro to Neurosice f the course: s in cognitive sc oretical study in eory principles in numan visual and literature: COGH, A. and PA by 1991 R., SCHWARTZ 2000 d ABBOTT, L. F eural Systems. M ge:	concepts important ence cience (following cognitive and ne in modeling of c d auditory system ALMER R. G.: In , J. H. and JESSE	up on Intro to eural science, inc cognitive process ns, learning, thin attroduction to the CLL, T.M.: Princi	Neuroscience). C luding connection ses and neural ci king, attention, de theory of neural ples of Neural Sc	Dverview of the nistic, statistical ircuits. Selected evelopment and computation.
Prerequisite: In Brief outline of Selected topics methods of the and system-the models of the I plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. I McGraw-Hill, DAYAN, P. and Modeling of N Course langua	computational c atro to Neurosice f the course: s in cognitive sc oretical study in eory principles in numan visual and literature: COGH, A. and PA by 1991 R., SCHWARTZ 2000 d ABBOTT, L. F eural Systems. M ge:	concepts important ence cience (following cognitive and ne in modeling of c d auditory system ALMER R. G.: In , J. H. and JESSE	up on Intro to eural science, inc cognitive process ns, learning, thin attroduction to the CLL, T.M.: Princi	Neuroscience). C luding connection ses and neural ci king, attention, de theory of neural ples of Neural Sc	Dverview of the nistic, statistical ircuits. Selected evelopment and computation.
Prerequisite: In Brief outline of Selected topics methods of the and system-the models of the I plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. I McGraw-Hill, DAYAN, P. and Modeling of N Course langua Slovak or Engl Notes: Course assessm	computational c atro to Neurosice f the course: a in cognitive sc oretical study in eory principles in numan visual and literature: COGH, A. and PA by 1991 R., SCHWARTZ 2000 d ABBOTT, L. F eural Systems. M ge: ish	concepts important ence cience (following cognitive and ne in modeling of c d auditory system ALMER R. G.: In , J. H. and JESSE C.: Theoretical Ne //IT Press, 2001	up on Intro to eural science, inc cognitive process ns, learning, thin attroduction to the CLL, T.M.: Princi	Neuroscience). C luding connection ses and neural ci king, attention, de theory of neural ples of Neural Sc	Dverview of the nistic, statistical ircuits. Selected evelopment and computation.
Prerequisite: In Brief outline of Selected topics methods of the and system-the models of the I plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. I McGraw-Hill, DAYAN, P. and Modeling of N Course langua Slovak or Engl Notes: Course assessm	computational c atro to Neurosice f the course: s in cognitive sc oretical study in eory principles in numan visual and literature: COGH, A. and PA by 1991 R., SCHWARTZ 2000 d ABBOTT, L. F eural Systems. M ge: ish	concepts important ence cience (following cognitive and ne in modeling of c d auditory system ALMER R. G.: In , J. H. and JESSE C.: Theoretical Ne //IT Press, 2001	up on Intro to eural science, inc cognitive process ns, learning, thin attroduction to the CLL, T.M.: Princi	Neuroscience). C luding connection ses and neural ci king, attention, de theory of neural ples of Neural Sc	Dverview of the nistic, statistical ircuits. Selected evelopment and computation.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Viliam Geffert, DrSc.

Faculty: Faculty of S	cience
Course ID: ÚINF/ VYZ1/15	Course name: Computational complexity
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): Idy period: 28
Number of credits: 4	4
Recommended seme	ester/trimester of the course: 1.
Course level: II.	
Prerequisities:	
Conditions for cours Oral examination.	se completion:
Learning outcomes: To give the students completeness.	the theoretical background in computational complexity and theory of NP-
Deterministic simulat Another NP-complet satisfiability, 3-color balancing, Space I Savitch theorem. Clo	nondeterministic algorithms with polynomial time, NP-completeness. tion of a nondeterministic Turing machine. Satisfiability of Boolean formulae. te problems: satisfiability of a formula in a conjunctive normal form, 3- rability 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.
computation, Addisor	
L.A.Hemaspaandra, I science, Springer-Ver S. Arora, B. Barak: C 2009. G.Brassard, P.Bradler D.P.Bovet, P.Crescen C. Calude and J. Hro	 wani, J.D. Ullman: Introduction to automata theory, languages, and n-Wesley, 2007. on to the Theory of Computation, Thomson, 2nd edition, 2006. M.Ogihara: Complexity theory companion, EATCS series, texts in computer rlag, 2002. Computational Complexity: A Modern Approach, Cambridge Univ. Pess, y: Fundamentals of algorithmics, Prentice Hall, 1996. izi: Introduction to the theory of complexity, Prentice Hall, 1994. mkovič: Complexity: A Language-Theoretic Point of View, in G. Rozenberg
L.A.Hemaspaandra, I science, Springer-Ver S. Arora, B. Barak: C 2009. G.Brassard, P.Bradler D.P.Bovet, P.Crescen C. Calude and J. Hro	 wani, J.D. Ullman: Introduction to automata theory, languages, and n-Wesley, 2007. on to the Theory of Computation, Thomson, 2nd edition, 2006. M.Ogihara: Complexity theory companion, EATCS series, texts in computer rlag, 2002. Computational Complexity: A Modern Approach, Cambridge Univ. Pess, y: Fundamentals of algorithmics, Prentice Hall, 1996. izi: Introduction to the theory of complexity, Prentice Hall, 1994.

Course assessm Total number of	nent f assessed studen	ts: 261			
А	В	С	D	Е	FX
57.09	14.94	10.73	8.43	8.81	0.0
Provides: prof.	RNDr. Viliam G	effert, DrSc.			
Date of last mo	dification: 03.05	5.2015			
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.			

VYU1/15 Course type, scope an Course type: Lecture Recommended course Per week: 2 / 1 Per s Course method: press Number of credits: 5 Recommended semess	Course na d the met / Practice se-load (h tudy perio	ours):	nal learning		
VYU1/15 Course type, scope an Course type: Lecture Recommended cours Per week: 2 / 1 Per s Course method: pres Number of credits: 5 Recommended semes	d the met / Practice se-load (h tudy perio	thod: ours):	nal learning		
Course type: Lecture Recommended cours Per week: 2 / 1 Per s Course method: pres Number of credits: 5 Recommended semes	e / Practice se-load (h tudy perio sent	ours):			
Recommended semes					
	ter/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for course Recognition, oral exam	-	on:			
Learning outcomes: To provide the student	s basic kn	owledge about co	omputational lea	rning algorithms.	
Brief outline of the co Concepts, hypotheses algorithms for disjunct learning, probably app (VC) dimension and learning	s, learning tions. Prob roximatel	babilistic learning y correct (PAC) l	g, consistent algo	orithms and learna	ability, efficient
Recommended literat M. Anthony, N. Biggs M. J. Kearns, U. V. Va London, 1994.	: Computa				
Course language:					
Notes:					
Course assessment Total number of assess	sed studen	ts: 129			
A	В	С	D	E	FX
12.4 1	4.73	23.26	13.18	28.68	7.75
Provides: doc. RNDr.	Gabriela A	Andrejková, CSc.		<u> </u>	
Date of last modificat	ion: 03.05	5.2015			
Approved: prof. RND	r. Viliam (Geffert, DrSc.			

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: 2., 4. Course level: I., II. Prerequisities: Conditions for course completion: Oral examination, written tests. Learning outcomes: To provide the students with a knowledge of basic principles of computer architecture. Brief outline of the course: Milestones in computer organization, fundamental limitations. The representation of numbers at the implementation of floating point arithmetic. Combinatorial and sequential circuits, memo organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycl The microarchitecture level, microinstructions and microinstruction execution, pipelinin cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operatin system kernel, device-independent software. Recommended literature: 1. A. S. Tanenbaum: Structured Computer Organization, Prentice Hall, 2005 2. D. A. Patterson, J.L. Hennessy: Computer Organization and Architecture, Prentice Hall, 2012 4. J. Horák: Hardware, učebnice pro pokročilé, Computer Press, 2007 Course assessent Notes:	racuity. Faculty C	of Science				
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: 2., 4. Course level: 1., II. Prerequisities: Conditions for course completion: Oral examination, written tests. Learning outcomes: To provide the students with a knowledge of basic principles of computer architecture. Brief outline of the course: Milestones in computer organization, fundamental limitations. The representation of numbers at the implementation of floating point arithmetic. Combinatorial and sequential circuits, memo organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycl. The microarchitecture level, microinstructions and microinstruction control. The instruction sarchitecture level, data types, addressing modes, instruction types. Instruction execution, pipelinin cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operatin system kernel, device-independent software. Recommended literature: 1. A. S. Tanenbaum: Structured Computer Organization, Prentice Hall, 2005 2. D.A. Patterson, J.L. Hennessy: Computer Organization and Design - The Hardware/Software Inte	Course ID: ÚINF. ARP1/15	/ Course n	ame: Computer a	architecture		
Recommended semester/trimester of the course: 2., 4. Course level: I., II. Prerequisities: Conditions for course completion: Oral examination, written tests. December 2000 Learning outcomes: To provide the students with a knowledge of basic principles of computer architecture. Brief outline of the course: Milestones in computer organization, fundamental limitations. The representation of numbers at the implementation of floating point arithmetic. Combinatorial and sequential circuits, memo organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycl The microarchitecture level, data types, addressing modes, instruction types. Instruction execution, pipelinin cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operatin system kernel, device-independent software. Recommended literature: 1. A. S. Tanenbaum: Structured Computer Organization, Prentice Hall, 2005 2. D.A. Patterson, J.L. Hennessy: Computer Organization and Architecture, Prentice Hall, 2012 4. J. Horák: Hardware, učebnice pro pokročilé, Computer Press, 2007 Course language: Notes: Notes: Course assessment Total number of assessed students: 57 A B <t< td=""><td>Course type: Lee Recommended of Per week: 2 / 1 F</td><td>cture / Practico course-load (h Per study peri</td><td>e nours):</td><td></td><td></td><td></td></t<>	Course type: Lee Recommended of Per week: 2 / 1 F	cture / Practico course-load (h Per study peri	e nours):			
Course level: 1., II. Prerequisities: Conditions for course completion: Oral examination, written tests. Learning outcomes: To provide the students with a knowledge of basic principles of computer architecture. Brief outline of the course: Milestones in computer organization, fundamental limitations. The representation of numbers ar the implementation of floating point arithmetic. Combinatorial and sequential circuits, memo organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycl The microarchitecture level, microinstructions and microinstruction control. The instruction sarchitecture level, data types, addressing modes, instruction types. Instruction execution, pipelinin cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operatin system kernel, device-independent software. Recommended literature: 1. A. S. Tanenbaum: Structured Computer Organization, Prentice Hall, 2005 2. D.A. Patterson, J.L. Hennessy: Computer Organization and Design - The Hardware/Software Interface, Morgan Kaufmann, 2011 3. W. Stallings: Computer Organization and Architecture, Prentice Hall, 2012 4. J. Horák: Hardware, učebnice pro pokročilé, Computer Press, 2007 Course assessment Total number of assesed s	Number of credit	s: 4				
Prerequisities: Conditions for course completion: Oral examination, written tests. Learning outcomes: To provide the students with a knowledge of basic principles of computer architecture. Brief outline of the course: Milestones in computer organization, fundamental limitations. The representation of numbers at the implementation of floating point arithmetic. Combinatorial and sequential circuits, memo organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycl The microarchitecture level, microinstructions and microinstrucion control. The instruction s architecture level, data types, addressing modes, instruction types. Instruction execution, pipelinin cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operatin system kernel, device-independent software. Recommended literature: 1. A. S. Tanenbaum: Structured Computer Organization, Prentice Hall, 2005 2. D.A. Patterson, J.L. Hennessy: Computer Organization and Design - The Hardware/Software Interface, Morgan Kaufmann, 2011 3. W. Stallings: Computer Organization and Architecture, Prentice Hall, 2012 4. J. Horák: Hardware, učebnice pro pokročilé, Computer Press, 2007 Course assessment Total number of assessed students: 57 A B C D E FX A B	Recommended se	emester/trime	ester of the cours	e: 2., 4.		
Conditions for course completion: Oral examination, written tests. Learning outcomes: To provide the students with a knowledge of basic principles of computer architecture. Brief outline of the course: Milestones in computer organization, fundamental limitations. The representation of numbers at the implementation of floating point arithmetic. Combinatorial and sequential circuits, memo organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycl The microarchitecture level, microinstructions and microinstruction control. The instructions architecture level, data types, addressing modes, instruction types. Instruction execution, pipelinin cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operatin system kernel, device-independent software. Recommended literature: 1. A. S. Tanenbaum: Structured Computer Organization, Prentice Hall, 2005 2. D.A. Patterson, J.L. Hennessy: Computer Organization and Design - The Hardware/Software Interface, Morgan Kaufmann, 2011 3. W. Stallings: Computer Organization and Architecture, Prentice Hall, 2012 4. J. Horák: Hardware, učebnice pro pokročilé, Computer Press, 2007 Course language: Notes: Course assessment Total number of assessed students; 57 A B C D E FX A B C D E FX 15.79<	Course level: I., I	I.				
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Approved: prof. RNDr. Viliam Geffert, DrSc.

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 credits: 4 Recommended semester/trimester of the course: 2. Course level: 1., II. Prerequisities: Conditions for course completion: written test Learning outcomes: to acquire knowledge on design and verifying of cryptographic protocols Brief outline of the course: Authentication and key establishment using shared and public key cryptography, key agreement protocols, conference key agreement, zero-knowledge protocols. Recommended literature: 1. Colin Boyd, Anish Mathuria: Protocols for Authentication and Key Establishment, Springer, 2003 2. Douglas R. Stinson: Cryptography: Theory and Practice, Third Edition, Chapman & Hall/CRC, 2006 3. Bruce Schneier: Applied Cryptography, Second Edition, John Wiley & Sons Inc., 1996 4. Peter Ryan, Steve Schneider: Modeling and Analysis of Security Protocols, Addison-Wesley, 2001 Course language:	University: P. J. Š	afárik Univers	ity in Košice			
KRP1/15 Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per weck: 2 / 2 Per study period: 28 / 28 Perweck: 2 / 2 Per study period: 28 / 28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 2. Course level: 1., II. Prerequisities: Conditions for course completion: written test Learning outcomes: to acquire knowledge on design and verifying of cryptographic protocols Brief outline of the course: Authentication and key establishment using shared and public key cryptography, key agreement protocols, conference key agreement, zero-knowledge protocols. Recommended literature: 1. Colin Boyd, Anish Mathuria: Protocols for Authentication and Key Establishment, Springer, 2003 2. Douglas R. Stinson: Cryptography: Theory and Practice, Third Edition, Chapman & Hall/CRC, 2006 3. Bruce Schneier: Applied Cryptography, Second Edition, John Wiley & Sons Inc., 1996 4. Peter Ryan, Steve Schneider: Modeling and Analysis of Security Protocols, Addison-Wesley, 2001 Course assessment Total number of assessed students: 2 A B C D E FX 0.0 0.0 50.0 0.0 0.0 0.0	Faculty: Faculty of	of Science				
Course Type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 2. Course level: 1, II. Prerequisities: Conditions for course completion: written test	Course ID: ÚINF KRP1/15	Course na	me: Cryptograp	nic protocols		
Recommended semester/trimester of the course: 2. Course level: I., II. Prerequisities: Conditions for course completion: written test Learning outcomes: to acquire knowledge on design and verifying of cryptographic protocols Brief outline of the course: Authentication and key establishment using shared and public key cryptography, key agreement protocols, conference key agreement, zero-knowledge protocols. Recommended literature: 1. Colin Boyd, Anish Mathuria: Protocols for Authentication and Key Establishment, Springer, 2003 2. Douglas R. Stinson: Cryptography: Theory and Practice, Third Edition, Chapman & Hall/CRC, 2006 3. Bruce Schneier: Applied Cryptography, Second Edition, John Wiley & Sons Inc., 1996 4. Peter Ryan, Steve Schneider: Modeling and Analysis of Security Protocols, Addison-Wesley, 2001 Course language: Votes: C D E A B Course assessment Total number of assessed students: 2 A B C D E FX <td>Course type: Le Recommended Per week: 2 / 2 1</td> <td>cture / Practice course-load (h Per study perio</td> <td>ours):</td> <td></td> <td></td> <td></td>	Course type: Le Recommended Per week: 2 / 2 1	cture / Practice course-load (h Per study perio	ours):			
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Provides: doc. RNDr. Stanislav Krajči, PhD., doc. RNDr. Jozef Jirásek, PhD., RNDr. Rastislav Krivoš-Belluš, PhD.	Α	В	С	D	E	FX
Krivoš-Belluš, PhD.	0.0	0.0	50.0	0.0	50.0	0.0
Date of last modification: 20.07.2016			Krajči, PhD., doc	. RNDr. Jozef .	Jirásek, PhD., RNI	Dr. Rastislav
	Date of last modi	fication: 20.07	2.2016			
Approved: prof. RNDr. Viliam Geffert, DrSc.	Approved: prof. l	RNDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Univers	sity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN DWA1/15	F/ Course na	Course name: Developing web applications with JavaScript						
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ractice course-load (h r study period:	ours):						
Number of cred	its: 2							
Recommended s	semester/trime	ster of the cours	e: 1., 3.					
Course level: I.,	II.							
Prerequisities:								
Conditions for c	ourse complet	ion:						
Learning outcom	nes:							
with asynchrono Templates for	vaScript. Archit ous IO program web page ger	ming using Nod	eJS and Mongo nentals of e-co	ns, client-server c DB. Securing we ommerce web st vices)	eb applications.			
Recommended I	iterature:							
Course languag	e:							
Notes:								
Course assessme Total number of		nts: 13						
	В	С	D	E	FX			
A		20.77		1				
A 23.08	15.38	30.77	7.69	23.08	0.0			
	15.38	30.77	7.69	23.08	0.0			
23.08			7.69	23.08	0.0			

	Salarik Univer	sity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN TDB1/15	: ÚINF/ Course name: Development of web-oriented database applications						
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	Practice l course-load (l er study period	hours):					
Number of cred	its: 2						
Recommended s	semester/trime	ester of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for c Work on a proje	ct.	.1011:					
Presentation of a	a project.						
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Learning outcom To learn moder database server (Brief outline of Oracle SQL Data Java JDBC API Recommended I 1. http://www.or Course languag Notes: Course assessme	mes: mes: mes: ORACLE and p the course: a Manipulation Java Database literature: racle.com ge: ent	programming tech Language. Oracle Connectivity. Jav	niques in JAVA.	ition Language.	-		
Learning outcom To learn moder database server of Brief outline of Oracle SQL Data Java JDBC API Recommended I 1. http://www.or Course languag Notes: Course assessme Total number of	mes: mes: mes: ORACLE and p the course: a Manipulation Java Database literature: racle.com fe: ent `assessed studen	nts: 0	niques in JAVA. SQL Data Defir a JDBC API. Jav	hition Language.	Oracle PL/SQ		
Learning outcom To learn moder database server of Brief outline of Oracle SQL Data Java JDBC API Recommended I 1. http://www.or Course languag Notes: Course assessme Total number of A 0.0	mes: mes: mes: mes: ORACLE and p the course: a Manipulation Java Database literature: racle.com racle.com re: ent Sassessed studen B 0.0	nts: 0 C 0.0	D	E	Oracle PL/SQ		
Learning outcom To learn moder database server of Brief outline of Oracle SQL Data Java JDBC API Recommended I 1. http://www.or Course languag Notes: Course assessme Total number of A	mes: mes: mes: mes: methods for ORACLE and p the course: a Manipulation Java Database literature: racle.com racle.com re: ent assessed studen B 0.0 RNDr. Csaba Tö	nts: 0 C 0.0 C 0.0 C 0.0	D	E	Oracle PL/SQ		

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN DPO/15	F/ Course na	me: Diploma Th	esis and its Defe	ence	
Course type, sco Course type: Recommended Per week: Per Course method	course-load (he study period:				
Number of credi	its: 20				
Recommended s	emester/trimes	ter of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	o n:			
Learning outcom	nes:				
Brief outline of t	the course:				
Recommended l	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 5			
А	В	С	D	Е	FX
60.0	0.0	40.0	0.0	0.0	0.0
Provides:					
Date of last mod	ification: 03.05	.2015			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚINF/ ABSP/14						
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14					
Number of credits: 4						
Recommended seme	ster/trimester of the cours	e: 1., 3.				
Course level: I., II., N	N					
Prerequisities: ÚINF	C/ZTSP/14					
Conditions for cours	e completion:					
Learning outcomes:						
ABAP Open SQL, A operations, cycles, ter	nming in ABAP, declaratio BAP Workbench navigation st programs using a debugger	n of variables, the basic syntax of the language , ABAP editor, arithmetic, logic conditions, string r, an overview of the most important commands of objects, functional groups and function modules.				
Recommended litera	iture:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 38					
	abs	n				
	94.74	5.26				
Provides:						
Date of last modifica	ition: 03.05.2015					
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.					

University: P. J. Šafá							
•	rik University in Košice						
Faculty: Faculty of S	Science						
Course ID: ÚINF/ ZTSP/14	Course name: Essentials of	Course name: Essentials of the SAP Technology					
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice rse-load (hours): study period: 28 / 14						
Number of credits:	4						
Recommended seme	ester/trimester of the cours	e: 1., 3.					
Course level: I., II., I	N						
Prerequisities:							
Conditions for cour	se completion:						
Learning outcomes:							
Brief outline of the	DOTIFEO.						
Defining mySAP Teo Design, Calling Fu	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and	ons provided by SAP), Navigation (Logon, Screen lient/Server Architecture, Structure of an SAP Integration Technologies (Remote Function Calls,					
Defining mySAP Tec Design, Calling Fun system, Processing in	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and s).	lient/Server Architecture, Structure of an SAP					
Defining mySAP Tec Design, Calling Fun system, Processing in Internet Technologie	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and s).	lient/Server Architecture, Structure of an SAP					
Defining mySAP Tec Design, Calling Fur system, Processing ir Internet Technologie Recommended liter	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and s).	lient/Server Architecture, Structure of an SAP					
Defining mySAP Teo Design, Calling Fur system, Processing in Internet Technologie Recommended liter Course language:	chnology (Products, Innovati actions), System Kernel (C a SAP), Communication and s). ature:	lient/Server Architecture, Structure of an SAP					
Defining mySAP Tec Design, Calling Fur system, Processing in Internet Technologie Recommended liter: Course language: Notes: Course assessment	chnology (Products, Innovati actions), System Kernel (C a SAP), Communication and s). ature:	lient/Server Architecture, Structure of an SAF					
Defining mySAP Tec Design, Calling Fur system, Processing in Internet Technologie Recommended liter: Course language: Notes: Course assessment	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and s). ature:	lient/Server Architecture, Structure of an SAF Integration Technologies (Remote Function Calls					
Defining mySAP Teo Design, Calling Fur system, Processing in Internet Technologie Recommended liter: Course language: Notes: Course assessment Total number of asse	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and s). ature: essed students: 160 abs 100.0	lient/Server Architecture, Structure of an SAF Integration Technologies (Remote Function Calls					
Defining mySAP Teo Design, Calling Fun system, Processing in Internet Technologie Recommended liter: Course language: Notes: Course assessment Total number of asses Provides: Ing. Katar	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and s). ature: essed students: 160 abs 100.0 ína Nináčová, RNDr. Štefan	n 0.0					

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ VEP1/15	Course na	me: Formal met	hods in a verifica	ation	
Course type, scope Course type: Lect Recommended co Per week: 2 / 1 Po Course method: p	ure / Practice ourse-load (h er study perio	ours):			
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	s:				
Brief outline of the	e course:				
Recommended lite	rature:				
Course language:					
Notes:					
Course assessment Total number of as		ts: 23			
A	В	С	D	Е	FX
30.43	26.09	17.39	17.39	0.0	8.7
Provides: doc. RN	Dr. Gabriela A	Andrejková, CSc.	, Mgr. Alexande	r Szabari, PhD.	
Date of last modifi	cation: 03.05	5.2015			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

J		ity in Košice			
Faculty: Facult		5			
Course ID: ÚIN ZNA1/15	VF/ Course na	me: Foundation	s of knowledge	systems	
Course type:] Recommende	d course-load (h er study period:	ours):			
Number of cree	dits: 4				
Recommended	semester/trimes	ter of the cours	e: 2.		
Course level: II	- •				
Prerequisities:					
Conditions for	course completi	on:			
U		11	cations of logic	into computer sci	ence, especially
deductive data Concept Analys	bases. Logic and	l expert systems notions of Fuzzy	Basic notions logic and Fuzzy	databases, relation of Lattice Theorem extension of FCA	ory and Formal
Recommended Shawn Hedmar		n logic: An intro	duction to mode	1.4 6.4	
computability a Shan-Hwei Nie Springer-Verlag Kristian Kerstin IOS Press, ISB Nilsson U., Ma Bělohlávek R.: Plenum Publish	nd complexity. C nhuys-Cheng, Ro g, ISBN 3-540-62 ng. An Inductive N 1-58603-674-2 luszynski J.: Log Fuzzy Relational ners, New York, 2	Dxford university onald de Wolf. Fo 1927-0, 1997. Logic Programm , 2006. ic, Programming Systems: Found 002.	press, ISBN 0– oundations of In- ing Approach to and Prolog, Joh lations and Princ	a theory, proof the 19–852980–5, 20 ductive Logic Pro o Statistical Relation wiley & Sons E ciples. Kluwer, Ac	06. ogramming. ional Learning, Ltd. 1995. cademic/
computability a Shan-Hwei Nie Springer-Verlag Kristian Kerstin IOS Press, ISB Nilsson U., Ma Bělohlávek R.: Plenum Publish Ganter B., Will	nd complexity. C nhuys-Cheng, Ro g, ISBN 3-540-62 ng. An Inductive N 1-58603-674-2 luszynski J.: Log Fuzzy Relational ners, New York, 2 e R.: Formal Con	Dxford university onald de Wolf. Fo 1927-0, 1997. Logic Programm , 2006. ic, Programming Systems: Found 002.	press, ISBN 0– oundations of In- ing Approach to and Prolog, Joh lations and Princ	19–852980–5, 20 ductive Logic Pro o Statistical Relation on Wiley & Sons I ciples. Kluwer, Ac	06. ogramming. ional Learning, Ltd. 1995. cademic/
computability a Shan-Hwei Nie Springer-Verlag Kristian Kerstin IOS Press, ISB Nilsson U., Ma Bělohlávek R.: Plenum Publish Ganter B., Will	nd complexity. C nhuys-Cheng, Ro g, ISBN 3-540-62 ng. An Inductive N 1-58603-674-2 luszynski J.: Log Fuzzy Relational ners, New York, 2 e R.: Formal Con	Dxford university onald de Wolf. Fo 1927-0, 1997. Logic Programm , 2006. ic, Programming Systems: Found 002.	press, ISBN 0– oundations of In- ing Approach to and Prolog, Joh lations and Princ	19–852980–5, 20 ductive Logic Pro o Statistical Relation on Wiley & Sons I ciples. Kluwer, Ac	06. ogramming. ional Learning, Ltd. 1995. cademic/
computability a Shan-Hwei Nie Springer-Verlag Kristian Kerstin IOS Press, ISB Nilsson U., Ma Bělohlávek R.: Plenum Publish Ganter B., Will Course languag Notes: Course assessm	nd complexity. C nhuys-Cheng, Ro g, ISBN 3-540-62 ng. An Inductive N 1-58603-674-2 luszynski J.: Log Fuzzy Relational ners, New York, 2 e R.: Formal Con ge:	Oxford university onald de Wolf. Fo 1927-0, 1997. Logic Programm , 2006. ic, Programming Systems: Found 002. cept Analysis: N	press, ISBN 0– oundations of In- ing Approach to and Prolog, Joh lations and Princ	19–852980–5, 20 ductive Logic Pro o Statistical Relation on Wiley & Sons I ciples. Kluwer, Ac	06. ogramming. ional Learning, Ltd. 1995. cademic/
computability a Shan-Hwei Nie Springer-Verlag Kristian Kerstin IOS Press, ISB Nilsson U., Ma Bělohlávek R.: Plenum Publish Ganter B., Will Course languag Notes:	nd complexity. C nhuys-Cheng, Ro g, ISBN 3-540-62 ng. An Inductive N 1-58603-674-2 luszynski J.: Log Fuzzy Relational ners, New York, 2 e R.: Formal Con ge:	Oxford university onald de Wolf. Fo 1927-0, 1997. Logic Programm , 2006. ic, Programming Systems: Found 002. cept Analysis: N	press, ISBN 0– oundations of In- ing Approach to and Prolog, Joh lations and Princ	19–852980–5, 20 ductive Logic Pro o Statistical Relation on Wiley & Sons I ciples. Kluwer, Ac	06. ogramming. ional Learning, Ltd. 1995. cademic/

Provides: doc. RNDr. Stanislav Krajči, PhD., RNDr. Ondrej Krídlo, PhD.

Date of last modification: 03.05.2015

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KFaI DF2p/03	DF/ Course na	me: History of I	Philosophy 2 (Ge	eneral Introductio	on)
Course type, sco Course type: Le Recommended Per week: 2 / 1 Course method	ecture / Practice course-load (h Per study perio	ours):			
Number of credi	ts: 4				
Recommended s	emester/trimes	ster of the cours	e:		
Course level: I., I	II				
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcon	nes:				
Brief outline of t	he course:				
Recommended li	iterature:				
Course language					
Notes:					
Course assessme Total number of a		ts: 731			
А	В	С	D	Е	FX
60.6	13.82	12.72	8.76	3.42	0.68
Provides: doc. Ph Katarína Mayerov		· · ·		eter Nezník, CSo	c., PhDr.
Date of last mod	ification: 03.05	5.2015			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KFaE KDF/05		me: Chapters fro General Introduc	•	nilosophy of 19th	and 20th
Course type, scop Course type: Pra Recommended Per week: 2 Per Course method:	actice course-load (he study period:	ours):			
Number of credit	ts: 2				
Recommended se	emester/trimes	ter of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom	ies:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	•				
Notes:					
Course assessmen Total number of a		ts: 10			
A	В	С	D	E	FX
50.0	20.0	10.0	0.0	10.0	10.0
Provides: doc. Ph	Dr. Pavol Thol	t, PhD., mim. pro	of.		
Date of last modi	fication: 03.05	.2015			
Approved: prof. 1	RNDr. Viliam (Geffert, DrSc.		-	

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty c	of Science				
Course ID: KFaD IH2/03	F/ Course na	me: Idea Humar	nitas 2 (General)	Introduction)	
Course type, scop Course type: Pra Recommended c Per week: 2 Per Course method:	nctice course-load (h study period:	ours):			
Number of credit	s: 2				
Recommended se	mester/trimes	ter of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcom	es:				
Brief outline of th	e course:				
Recommended lit	terature:				
Course language:					
Notes:					
Course assessmer Total number of a	-	ts: 8			
A	В	С	D	E	FX
87.5	12.5	0.0	0.0	0.0	0.0
Provides: Doc. Ph	Dr. Peter Nezr	ník, CSc.			
Date of last modi	fication: 03.05	5.2015			
Approved: prof. F	RNDr. Viliam (Geffert, DrSc.			

University: P. J. Ša	fárik Universi	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ ANO/15	Course na	me: Image analy	/sis		
Course type, scope Course type: Lect Recommended co Per week: 2 / 2 Pe Course method: p	ure / Practice urse-load (ho r study perio	ours):			
Number of credits:	4				
Recommended sem	nester/trimes	ter of the cours	e: 3.		
Course level: I., II.					
Prerequisities:					
Conditions for cou	rse completio	on:			
Learning outcomes	5:				
Brief outline of the	course:				
Recommended lite	rature:				
Course language:					
Notes:					
Course assessment Total number of ass		s: 10			
A	В	С	D	Е	FX
20.0	0.0	20.0	10.0	50.0	0.0
Provides: doc. Ing.	Zoltán Tomor	ri, CSc.		·	
Date of last modified	cation: 03.05	.2015			
Approved: prof. RN	NDr. Viliam C	Geffert, DrSc.		-	

Faculty Facult		sity in Košice			
racuny. racun	y of Science				
Course ID: ÚIN MIN1/15	VF/ Course n	ame: Informatics	for medicine		
	Practice I course-load (I er study period	nours):			
Number of crea	lits: 2				
Recommended	semester/trime	ester of the cours	e: 3.		
Course level: I.	, II.				
Prerequisities:					
Conditions for Oral and writter	-	ion:			
	pplication of co	mputer science in relevant domain.	medicine doma	in with emphasis	s on the specific
Brief outline of	the course				
Software devel MS .NET, C#, used software to RationalRose, F	opment go me C++. Developm ools: RequisitePro, UI	dicine domain (n nent based on so- TA, Caliber, Clea g to CMMI metho	called "V" deve rCase. Quality a	lopment model.	An overview of
Software devel MS .NET, C#, used software to RationalRose, F	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com	nent based on so-	called "V" deve rCase. Quality a	lopment model.	An overview of
Software devel MS .NET, C#, used software to RationalRose, F company mange Recommended http://www.syng	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com nens.com	nent based on so-	called "V" deve rCase. Quality a	lopment model.	An overview of
Software devel MS .NET, C#, used software to RationalRose, F company mange Recommended http://www.syng http://www.sien	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com nens.com	nent based on so-	called "V" deve rCase. Quality a	lopment model.	An overview of
Software devel MS .NET, C#, used software to RationalRose, F company mange Recommended http://www.syng http://www.sien Course languag Notes: Course assessm	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com nens.com ge:	nent based on so- TA, Caliber, Clea g to CMMI metho	called "V" deve rCase. Quality a	lopment model.	An overview of
Software devel MS .NET, C#, used software to RationalRose, F company mange Recommended http://www.syng http://www.sien Course languag Notes: Course assessm	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com nens.com ge:	nent based on so- TA, Caliber, Clea g to CMMI metho	called "V" deve rCase. Quality a	lopment model.	An overview of
Software devel MS .NET, C#, used software to RationalRose, F company mange Recommended http://www.syng http://www.sien Course languag Notes: Course assessm Total number of	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com nens.com ge:	nent based on so- TA, Caliber, Clea to CMMI metho	called "V" deve rCase. Quality a dology.	lopment model	An overview of gement and SW
Software devel MS .NET, C#, used software to RationalRose, F company mange Recommended http://www.syng http://www.sien Course languag Notes: Course assessm Total number of A 75.36	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com nens.com ge: ent f assessed studen B 24.64	nent based on so- TA, Caliber, Clea g to CMMI metho nts: 69 C 0.0	called "V" deve rCase. Quality a dology.	lopment model. And process mana	An overview of gement and SW
Software devel MS .NET, C#, used software to RationalRose, F company mange Recommended http://www.syng http://www.sien Course languag Notes: Course assessm Total number of A	opment go me C++. Developm ools: RequisitePro, UI ement according literature: go.com nens.com ge: ment f assessed studen B 24.64 ing. Norbert Kop	nent based on so- TA, Caliber, Clea to CMMI metho nts: 69 C 0.0 pčo, PhD.	called "V" deve rCase. Quality a dology.	lopment model. And process mana	An overview of gement and SW

University: P. J. Ša	fárik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ MIN2/15	Course na	ne: Informatics	for medicine		
Course type, scope Course type: Lect Recommended co Per week: 2 Per s Course method: p	ture ourse-load (ho tudy period: 2	urs):			
Number of credits	: 3				
Recommended sen	nester/trimest	er of the cours	e: 4.		
Course level: I., II.					
Prerequisities: ÚIN	NF/MIN1/15				
Conditions for cou	rse completio	n:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessment Total number of as		s: 1			
A	В	С	D	E	FX
0.0	0.0	0.0	0.0	100.0	0.0
Provides: doc. Ing.	Norbert Kopč	o, PhD.		·	
Date of last modifi	cation: 03.05.	2015			
Approved: prof. Rl	NDr. Viliam G	effert, DrSc.			

University: P. J.	Šafárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN MSSI/15	Jourse ID: ÚINF/ ISSI/15Course name: Informatika II.							
Course type, sco Course type: Recommended Per week: Per Course method	course-load (he study period:							
Number of cred	its: 4							
Recommended s	semester/trimes	ter of the cours	e:					
Course level: II.								
Prerequisities: (or ((ÚINF/LAD1 NEU1/15 or ÚIN	/15 or ÚINF/ZN F/VKN/15)) or	IA1/15) and ÚIN (ÚINF/KKV1/15	F/AIS1/15) or (ÚINF/VYU1/15	and (ÚINF/			
Conditions for c	ourse completi	on:						
Learning outcom	nes:							
Brief outline of	the course:							
Recommended l	iterature:							
Course languag	e:							
Notes:								
Course assessme Total number of		ts: 5						
A	В	С	D	E	FX			
20.0	20.0	60.0	0.0	0.0	0.0			
Provides:								
Date of last mod	lification: 17.09	.2015						
Approved: prof.	RNDr. Viliam (Geffert, DrSc.						

University: P. J. S	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚINF EIL/04	F/ Course na	me: Information	and knowledge	systems	
Course type, sco Course type: Recommended Per week: Per s Course method	course-load (h study period:				
Number of credi	ts: 0				
Recommended se	emester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities: Ú	INF/LAD1/06	and (ÚINF/VYU	1/03 or ÚINF/A	IS1/01)	
Conditions for co	ourse completi	on:			
Learning outcom	nes:				
Brief outline of t	he course:				
Recommended li	iterature:				
Course language	2				
Notes:					
Course assessme Total number of a		ts: 30			
A	В	С	D	Е	FX
30.0	16.67	16.67	16.67	13.33	6.67
Provides:				·	
Date of last modi	ification: 03.05	5.2015			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

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: 2. Course level: II. Prerequisities: Conditions for course completion: Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. To introduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information system, information pyramid. Conceptualisation of information systems. ISC model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation an marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.omg.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language:	\mathbf{F}_{a} and $\mathbf{F}_{a} = \mathbf{F}_{a}$					
AISI/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 credits: 4 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. Triintroduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information system, information pyramid. Conceptualisation of information systems. ISC model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation an marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomics. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.omg.org 2. lan Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005						
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: 2. Course level: 11. Prerequisities: Conditions for course completion: Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. To introduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information system, information pyramid. Conceptualisation of information systems. ISG model of the architecture of an information system. Introduction to MDA, software development. The introduces based on MDA. Model, metamodel, modelling language. Model transformation an marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomics. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.ong.org 2. Annoke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course assessent Total number of assessed students: 167 A B C <td< td=""><td>Course ID: ÚIN AIS1/15</td><td>F/ Course na</td><td>me: Information</td><td>systems archite</td><td>cture</td><td></td></td<>	Course ID: ÚIN AIS1/15	F/ Course na	me: Information	systems archite	cture	
Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. To introduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information pyramid. Conceptualisation of information systems. ISC model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation an marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.omg.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language: Notes: Course assessment To provide a subsessed students: 167 A B C D E FX	Course type: L Recommended Per week: 2 / 1	ecture / Practice course-load (he Per study perio	ours):			
Course level: II. Prerequisities: Conditions for course completion: Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. Trintroduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information system, information pyramid. Conceptualisation of information systems. ISC model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation and marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.omg.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language: Course assessment Total number of assessed students: 167 A B C D E FX A B C D E FX	Number of cred	its: 4				
Prerequisities: Conditions for course completion: Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. To introduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information pyramid. Conceptualisation of information systems. ISC model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation and marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.omg.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 A scott Berkun, The Art Of Project Management, O Reilly 2005 Course assessment Total number of assessed students: 167 A B C D E FX A B C D E FX 19.76 A B C D E FX A B C D E FX A B C D E	Recommended s	semester/trimes	ter of the cours	e: 2.		
Conditions for course completion: Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. To introduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information system, information pyramid. Conceptualisation of information systems. ISC model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation and marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.ong.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language: Notes: Course assessment Total number of assessed students: 167 E A B C D E FX 19.76 31.14 25.15 8.98 11.38 3.59	Course level: II.					
Work on project. Written and oral examination Learning outcomes: To provide an overview of the modern methodologies of information system development. The introduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information system, information pyramid. Conceptualisation of information systems. ISO model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation and marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.ong.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language: Notes: Course assessment Total number of assessed students: 167 A B C D E FX 19.76 31.14 25.15 8.98 11.38 3.59	Prerequisities:					
To provide an overview of the modern methodologies of information system development. To introduce the fundamental principles of conceptual modelling of information systems. Brief outline of the course: System, information system, information pyramid. Conceptualisation of information systems. ISO model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation and marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.omg.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language: Notes: Course assessment Total number of assessed students: 167 E FX 19.76 31.14 25.15 8.98 11.38 3.59	Work on project		on:			
System, information system, information pyramid. Conceptualisation of information systems. ISC model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation and marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints Taxonomies. Domain events. Use cases. State transition diagrams. Recommended literature: 1. http://www.omg.org 2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language: Notes: Course assessment Total number of assessed students: 167 A B C D E FX 19.76 31.14 25.15 8.98 11.38 3.59	To provide an o	overview of the		•	~	1
1. http://www.omg.org2. Ian Sommerville, Software Engineering, Addison-Wesley 20053. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 20034. Scott Berkun, The Art Of Project Management, O Reilly 2005Course language:Votes:Course assessmentTotal number of assessed students: 167ABCDEFX19.7631.1425.158.9811.383.59	System, informa model of the arc life cycle based marking models	tion system, info chitecture of an i on MDA. Mod c. Entity types. I	nformation syste lel, metamodel, Relationship type	em. Introduction modelling langues. Cardinality c	to MDA, softwa age. Model tran constraints. Integr	re developmen sformation and
2. Ian Sommerville, Software Engineering, Addison-Wesley 2005 3. Anneke Kleppe, Wim Bast, Jos B Warmer, MDA Explained, the Model Driven Architecture, Addison-Wesley 2003 4. Scott Berkun, The Art Of Project Management, O Reilly 2005 Course language: Notes: Course assessment Total number of assessed students: 167 A B C D E FX 19.76 31.14 25.15 8.98 11.38 3.59						
Notes: Course assessment Total number of assessed students: 167 E A B C D E FX 19.76 31.14 25.15 8.98 11.38 3.59	Recommended l	literature:				
Course assessmentTotal number of assessed students: 167ABCDEFX19.7631.1425.158.9811.383.59	 http://www.or Ian Sommervi Anneke Klepp Addison-Wesley 	ng.org ille, Software En pe, Wim Bast, Jo v 2003	igineering, Addis s B Warmer, MI	son-Wesley 2005 DA Explained, th		Architecture,
Total number of assessed students: 167 A B C D E FX 19.76 31.14 25.15 8.98 11.38 3.59	 http://www.or Ian Sommervi Anneke Klepp Addison-Wesley Scott Berkun, 	ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj	igineering, Addis s B Warmer, MI	son-Wesley 2005 DA Explained, th		Architecture,
19.76 31.14 25.15 8.98 11.38 3.59	 http://www.or Ian Sommervi Anneke Klepp Addison-Wesley Scott Berkun, 	ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj	igineering, Addis s B Warmer, MI	son-Wesley 2005 DA Explained, th		Architecture,
	 http://www.or Ian Sommervi Anneke Klepp Addison-Wesley Scott Berkun, Course languag Notes: Course assessme 	ng.org ille, Software En pe, Wim Bast, Jo 2003 The Art Of Proj e: ent	igineering, Addis s B Warmer, MI ect Management	son-Wesley 2005 DA Explained, th		Architecture,
Provides: doc. RNDr. Gabriel Semanišin, PhD.	 http://www.or Ian Sommervie Anneke Klepp Addison-Wesley Scott Berkun, Course languag Notes: Course assessment 	ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj e: ent assessed student	igineering, Addis s B Warmer, MI ect Management ts: 167	son-Wesley 2005 DA Explained, th	e Model Driven A	
	1. http://www.or 2. Ian Sommervi 3. Anneke Klepp Addison-Wesley 4. Scott Berkun, Course languag Notes: Course assessme Total number of A	ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj e: ent assessed student B	igineering, Addis is B Warmer, MI ect Management ts: 167 C	on-Wesley 2005 DA Explained, th , O Reilly 2005	E Model Driven	FX

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ Course name: Information theory, encoding					
Course type, scope Course type: Lec Recommended co Per week: 2 / 1 Po Course method: 1	ture / Practice ourse-load (he er study perio	ours):			
Number of credits	: 4				
Recommended ser	nester/trimes	ter of the cours	e: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:				,	
Notes:	,				
Course assessment Total number of as	-	ts: 23			
A	В	С	D	Е	FX
60.87	8.7	13.04	4.35	0.0	13.04
Provides: doc. RN	Dr. Stanislav I	Krajči, PhD.			
Date of last modifi	cation: 03.05	.2015			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

	COURSE INFORMATION LETTER					
University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚINF/ UUI1/15	8					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	re rse-load (hours): dy period: 28					
Number of credits: 3						
Recommended seme	ster/trimester of the course: 2., 4.					
Course level: II.						
Prerequisities:						
Conditions for cours home work and writte final exam	•					
a student it is possible Brief outline of the c Goal of artificial intel representation in AI (informed versus infor- iterative enhancemen constraint logic prog described objects recc and describtion, obj knowledge systems (information), genetic Recommended litera Russell S.J., Norvig H 2002, ISBN: 0137902 Negnevitsky Michael Addison Wesley, 200	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. Attrificial Intelligence: A Modern Approach (2nd Edition), Prentice Hall, 3952 Artificial Intelligence: A Guide to Intelligent Systems (2nd Edition), 4, ISBN: 0321204662					
(5th Edition), Addiso	cial Intelligence: Structures and Strategies for Complex Problem Solving n Wesley, 2004, ISBN: 0321263189					
Course language:						
Notes:						

Course assessment Total number of assessed students: 83					
А	В	С	D	Е	FX
65.06	16.87	12.05	3.61	2.41	0.0
Provides: doc.]	Ing. Štefánia Gal	lová, CSc.			·
Date of last modification: 03.05.2015					
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science			_		
Course ID: ÚIN LAD1/15						
	ecture course-load (h r study period:	ours):				
Number of cred	its: 4					
Recommended	semester/trimes	ster of the cours	e: 2.			
Course level: II.						
Prerequisities:						
Conditions for a	course completi	on:				
Learning outcom To understand a logic programm Brief outline of	nd to be able to ing.	o formalize relation	onships between	databases, first	order logic and	
		s, logic and logic	programming.			
Recommended Serge Abiteboul ISBN 0-201-537	, Richard Hull,	Victor Vianu: Fou	undations of Data	abases. Addison-	Wesley 1995,	
Course languag	e:					
Notes:						
Course assessm Total number of		ts: 64				
А	В	С	D	E	FX	
34.38	17.19	21.88	14.06	10.94	1.56	
Provides: doc. R	NDr. Stanislav	Krajči, PhD.		·		
Date of last mod	lification: 03.05	5.2015				
Annroved: prof	RNDr. Viliam	Geffert, DrSc.				

University: P. J.	Šafárik Unive	ersity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN TSU1/15	IF/ Course	F/ Course name: Machine learning methods					
Course type, sc Course type: I Recommended Per week: 2 / 2 Course method	Lecture / Practi l course-load 2 Per study pe	ce (hours):					
Number of cred	lits: 5						
Recommended	semester/trim	ester of the cour	se: 2.				
Course level: II							
Prerequisities:							
Conditions for Fnal project and	-	etion:					
Learning outco Detailed overvio		t techniques of ma	achine learning ar	nd data mining.			
vector machine	ning: k-NN, lin s, decision tr	ear classification ees, naive bates temset mining and	classifier and ba	ayesian networks	, 11		
Kaufmann, ISB Pang-Ning Tan, ISBN 978-0321	cheline Kambe N 978-012381 Michael Stein 321367, 2005.	r, Jian Pei. Data M 4791, 2011. bach, Vipin Kum to Machine Learr	ar. Introduction to	o Data Mining. A	ddison-Wesley,		
Course languag	je:						
Notes:							
Course assessm Total number of		ents: 5					
А	В	С	D	E	FX		
20.0	0.0	60.0	0.0	20.0	0.0		
		Andreiková CS	c RNDr Tomáš	Horváth PhD	·		
Provides: doc. I	KNDr. Gabriela	a Anarojkova, CS	c., RINDI. Tollids	norvau, rub.			
Provides: doc. F			e., KUDI. Tollias	1101 vauit, 1 iiD.			

University: P						
Faculty: Facult	ty of Science					
Course ID: ÚI MPJ1/15						
Course type: Recommende	cope and the me Lecture / Practic ed course-load (2 Per study per od: present	e hours):				
Number of cre	edits: 4					
Recommended	l semester/trime	ester of the cours	e: 1., 3.			
Course level: I	I., II.					
Prerequisities:						
Conditions for	· course complet	tion:				
Learning outco Mastering the l		d and experiment	al programming	models and techn	niques.	
Object oriente	ed programming	g, Generic prog	ramming – par	ametric polymo	1	
programming - Attribute progr and declarative Recommended	ed programming – operator overlo ramming. Paralle e programming – I literature:	bading, indexer. E I and multithread I ambda expression	ramming – par Event programmi programming – p ons, LINQ. Grap	ametric polymo ng (event handlin processes, threadp hics primitives.	ng) – delegates	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY	ed programming – operator overle ramming. Paralle e programming – H literature: elsen, Pro C# 5.0 hari, Ben Albaha	bading, indexer. E and multithread	ramming – par Event programmi programming – p ons, LINQ. Grap 5 Platform, 2012 itshell: The Defin	ametric polymo ng (event handlin processes, threadp hics primitives.	ng) – delegates pool. Functiona	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY 3. Daniel Solis	ed programming – operator overlo ramming. Paralle e programming – I literature: elsen, Pro C# 5.0 hari, Ben Albaha s, Illustrated C# 2	bading, indexer. E and multithread lambda expression and the .NET 4.: ari, C# 5.0 in a Nu	ramming – par Event programmi programming – p ons, LINQ. Grap 5 Platform, 2012 itshell: The Defin	ametric polymo ng (event handlin processes, threadp hics primitives.	ng) – delegates pool. Functiona	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY	ed programming – operator overlo ramming. Paralle e programming – I literature: elsen, Pro C# 5.0 hari, Ben Albaha s, Illustrated C# 2	bading, indexer. E and multithread lambda expression and the .NET 4.: ari, C# 5.0 in a Nu	ramming – par Event programmi programming – p ons, LINQ. Grap 5 Platform, 2012 itshell: The Defin	ametric polymo ng (event handlin processes, threadp hics primitives.	ng) – delegates pool. Functiona	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY 3. Daniel Solis Course langua Notes: Course assess	ed programming – operator overlo ramming. Paralle e programming – I literature: elsen, Pro C# 5.0 hari, Ben Albaha b, Illustrated C# 2 age:	bading, indexer. E el and multithread lambda expression and the .NET 4.: ari, C# 5.0 in a Nu 2012, 2012, APRE	ramming – par Event programmi programming – p ons, LINQ. Grap 5 Platform, 2012 itshell: The Defin	ametric polymo ng (event handlin processes, threadp hics primitives.	ng) – delegates pool. Functiona	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY 3. Daniel Solis Course langua Notes: Course assess	ed programming – operator overlo ramming. Paralle e programming – I literature: elsen, Pro C# 5.0 hari, Ben Albaha s, Illustrated C# 2 age: nent	bading, indexer. E el and multithread lambda expression and the .NET 4.: ari, C# 5.0 in a Nu 2012, 2012, APRE	ramming – par Event programmi programming – p ons, LINQ. Grap 5 Platform, 2012 itshell: The Defin	ametric polymo ng (event handlin processes, threadp hics primitives.	ng) – delegates pool. Functiona	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY 3. Daniel Solis Course langua Notes: Course assess Total number of	ed programming – operator overlo ramming. Paralle e programming – I literature: elsen, Pro C# 5.0 hari, Ben Albaha s, Illustrated C# 2 nge: nent of assessed stude	bading, indexer. E and multithread lambda expression and the .NET 4.3 ari, C# 5.0 in a Nu 2012, 2012, APRE	ramming – par Event programming – pons, LINQ. Graph 5 Platform, 2012 atshell: The Defin	ametric polymo ng (event handlin processes, threadp hics primitives. , APRESS nitive Reference,	ng) – delegates pool. Functiona 2012,	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY 3. Daniel Solis Course langua Notes: Course assess Total number of A 15.53	ed programming – operator overlo ramming. Paralle e programming – I literature: elsen, Pro C# 5.0 hari, Ben Albaha s, Illustrated C# 2 nge: nent of assessed stude B	nts: 103	ramming – par Event programming – pons, LINQ. Graph 5 Platform, 2012 atshell: The Define ESS	ametric polymo ng (event handlin processes, threadp hics primitives. , APRESS nitive Reference, E	ng) – delegates pool. Functiona 2012, FX	
Object oriente programming - Attribute progr and declarative Recommended 1. Andrew Tro 2. Joseph Alba O'REILLY 3. Daniel Solis Course langua Notes: Course assessr Total number of A 15.53 Provides: doc.	ed programming – operator overlo ramming. Paralle e programming – I literature: elsen, Pro C# 5.0 hari, Ben Albaha a, Illustrated C# 2 nge: nent of assessed stude B 17.48	nts: 103 C 27.18 Drök, CSc.	ramming – par Event programming – pons, LINQ. Graph 5 Platform, 2012 atshell: The Define ESS	ametric polymo ng (event handlin processes, threadp hics primitives. , APRESS nitive Reference, E	ng) – delegates pool. Functiona 2012, FX	

University: P. J. Šafa	árik University in Košic	e		
Faculty: Faculty of S	Science			
Course ID: ÚTVŠ/ Course name: Naval Yachting NJ//13				
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ice irse-load (hours): tudy period: 504			
Number of credits:	2			
Recommended sem	ester/trimester of the c	ourse:		
Course level: I., II.				
Prerequisities:				
Conditions for cour	se completion:			
Learning outcomes:				
Brief outline of the	course:			
Recommended liter	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	essed students: 2			
	abs n			
	100.0	0.0		
Provides: doc. Mgr.	Rastislav Feč, PhD.			
Date of last modific	ation: 03.05.2015			
Approved: prof. RN	Dr. Viliam Geffert, DrS	с.		

Faculty Facult		sity in Košice					
racuity. raculty	of Science						
Course ID: ÚIN NEU1/15	IF/ Course na	F/ Course name: Neural networks					
Recommended	Lecture / Practice l course-load (h Per study peri	e ours):					
Number of cred	lits: 5						
Recommended	semester/trimes	ster of the cours	se: 1., 3.				
Course level: II							
Prerequisities:							
Conditions for	course completi	on:					
Learning outco To understand a		g basic paradign	ns of neural netwo	orks.			
			ck propagation a				
networks, a capa and solving opti- computational n Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo	networks to be an ms. Kohonen ne cal problems of r Introduction to órie neurónovýc	universal approx ural networks. N neural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield eural networks ir ral computation, tislava, 1997.	neural networks n connections to Addison		
networks, a capa and solving opti- computational r Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a J. Šíma, R. Nerd	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo uda: Teoretické c	networks to be an ms. Kohonen ne cal problems of r Introduction to órie neurónovýc	universal approx ural networks. N neural networks. the theory of neu	imator. Hopfield eural networks ir ral computation, tislava, 1997.	neural networks n connections to Addison		
networks, a capa and solving opti- computational n Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo uda: Teoretické c	networks to be an ms. Kohonen ne cal problems of r Introduction to órie neurónovýc	universal approx ural networks. N neural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield eural networks ir ral computation, tislava, 1997.	neural networks n connections to Addison		
networks, a capa and solving opti- computational r Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a J. Šíma, R. Nert Course languag Notes: Course assessm	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo uda: Teoretické c	etworks to be an ms. Kohonen ne cal problems of r Introduction to órie neurónovýc otázky neurónovy	universal approx ural networks. N neural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield eural networks ir ral computation, tislava, 1997.	neural networks n connections to Addison		
networks, a capa and solving opti- computational r Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a J. Šíma, R. Nert Course languag Notes: Course assessm	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo uda: Teoretické o ge: ent	etworks to be an ms. Kohonen ne cal problems of r Introduction to órie neurónovýc otázky neurónovy	universal approx ural networks. N neural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield eural networks ir ral computation, tislava, 1997.	neural networks n connections to Addison		
networks, a capa and solving opti- computational r Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a J. Šíma, R. Nert Course languag Notes: Course assessm Total number of	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo uda: Teoretické c ge: ent f assessed studen	etworks to be an ms. Kohonen ne cal problems of r Introduction to órie neurónovýc otázky neurónovy	universal approx ural networks. N neural networks. the theory of neu h sietí, IRIS, Brat ých sítí. Matfyzpi	imator. Hopfield eural networks ir ral computation, tislava, 1997. ress,MFF UK, Pr	neural networks n connections to Addison raha, 1996.		
networks, a capa and solving opti- computational r Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a J. Šíma, R. Neru Course languag Notes: Course assessm Total number of A 12.43	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo uda: Teoretické o ge: ent fassessed studen B 14.12	tts: 177 C 23.16	universal approx ural networks. Noneural networks. Noneural networks. the theory of neural networks. the theory of neural networks, Brate yeth sitti, IRIS, Brate yeth sitti. Matfyzph D 23.73	imator. Hopfield eural networks ir ral computation, tislava, 1997. ress,MFF UK, Pr	neural networks n connections to Addison raha, 1996.		
networks, a capa and solving opti- computational r Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a J. Šíma, R. Nert Course languag Notes: Course assessm Total number of A	ability of neural n imization problem nodels. Theoretic literature: gh, R.G. Palmer: kol.: Úvod do teo uda: Teoretické o ge: ent f assessed studen B 14.12 RNDr. Gabriela A	etworks to be an ms. Kohonen ne cal problems of r Introduction to órie neurónovýc otázky neurónovýc tts: 177 C 23.16 Andrejková, CSc	universal approx ural networks. Noneural networks. Noneural networks. the theory of neural networks. the theory of neural networks, Brate yeth sitti, IRIS, Brate yeth sitti. Matfyzph D 23.73	imator. Hopfield eural networks ir ral computation, tislava, 1997. ress,MFF UK, Pr	neural networks n connections to Addison raha, 1996.		

University: P. J.	 Šafárik Univer	sity in Košice				
Faculty: Faculty						
Course ID: ÚIN PDB1/15	Irse ID: ÚINF/ Course name: Organization and data processing					
Course type, sco Course type: La Recommended Per week: 2 / 1 Course method	ecture / Practic course-load (l Per study per	e hours):				
Number of credi	its: 4					
Recommended s	emester/trime	ester of the cours	e: 1., 3.			
Course level: II.						
Prerequisities:						
Conditions for c final exam	ourse complet	ion:				
	ne principles of	f database manage lems over big data				
Hash-based inde	tion, disk and exing methods ansaction man	file organization s, external sortin agement, parallel g, data reduction	g, enumeration	of relational op	perators, query	
Education, 2003	ISHNAN, J. G CHATZ, H. F. F	EHRKE: Database KORTH, S. SUDA	C		C	
Course language	e:					
Notes:						
Course assessme Total number of		nts: 61				
А	В	C	D	E	FX	
27.87	19.67	18.03	13.11	21.31	0.0	
Provides: doc. R	NDr. Csaba Tö	brök, CSc., RNDr.	Peter Gurský, P	hD.		
Date of last mod	ification: 01.0	6.2015				
Approved: prof.	RNDr. Viliam	Geffert, DrSc.				
hproveu: prof.		Genen, DISC.				

		OKSE INTOKI			
University: P. J	. Šafárik Univers	sity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚINF/ PDS1/15Course name: Parallel and distributed systems					
Course type: 1 Recommende	cope and the me Lecture / Practice d course-load (h 1 Per study peri d: present	e ours):			
Number of cree	dits: 4				
Recommended	semester/trime	ster of the cours	e: 2.		
Course level: I.	, II.				
Prerequisities:					
Conditions for	course completi	ion:			
Learning outco to introduce the		f parallel and dist	ributed program	ming	
development, d Recommended 1. Kenneth A. H Thomson, 2005 2. Gregory R. A Addison-Wesle 3. Joseph JáJá: 0-201-54856-9	ata structures and literature: Berman and Jeron 5, ISBN 0-534-42 Andrews: Founda y, 2000, ISBN 0- An Introduction ntroduction to D	d programming n me L. Paul: Algo 2057-5 tions of Multithro 201-35752-6 to Parallel Algor	nethodologies rithms: Sequentia eaded, Parallel, a ithms, Addison-V	allel and distribut al, Parallel, and I and Distributed Pr Wesley, 1992, ISF University Press	Distributed, rogramming, BN
Notes:					
Course assessment Total number of assessed students: 108					
А	В	С	D	Е	FX
24.07	18.52	17.59	18.52	12.96	8.33
Provides: doc. Galčík, PhD.	RNDr. Csaba Tö	rök, CSc., doc. R	NDr. Jozef Jiráse	ek, PhD., RNDr. 1	František
Date of last mo	dification: 03.05	5.2015			
Approved: prof	f. RNDr. Viliam	Geffert, DrSc.			

University: P. J. S	Šafárik Universi	ty in Košice			
Faculty: Faculty	of Science				
Course ID: Dek. PFCourse name: Personality Development and Key Competences for SuccessUPJŠ/PPZ/13on a Labour Market					nces for Success
Course type, sco Course type: Pr Recommended Per week: Per s Course method	actice course-load (ho study period: 1	ours):			
Number of credi	ts: 2				
Recommended se	emester/trimes	ter of the cours	se: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	on:			
Learning outcom	nes:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	•				
Notes:					
Course assessme Total number of a	-	s: 39			
А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: RNDr.	Peter Stefányi,	PhD.			
Date of last mod	ification: 03.05	.2015			
Approved: prof.	RNDr. Viliam C	effert, DrSc.			

Uningersian D. I. Čafá	rile I. Luissonaites in Waxiaa	
Faculty: Faculty of S	rik University in Košice	
t j	· · · · · · · · · · · · · · · · · · ·	
Course ID: ÚINF/ PDSI1/15	Course name: Pro-seminar	to diploma thesis in informatics
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): Idy period: 28	
Number of credits: 2	2	
Recommended seme	ster/trimester of the cours	e: 1.
Course level: II.		
Prerequisities:		
Conditions for cours	se completion:	
		ey are suitable to work in diploma theses. In the of diploma theses, goals and recommended study
Brief outline of the of The seminar is orient		to preparations of Diploma theses.
2004. 316 s. ISBN 80 ISO 690: 1987 Docu ISO 2145: 1978 Doc Eco, U.: Jak napsat d Olomouc, Votobiax.	ŠČÁK, D. Akademická príru D-8063-150-6 mentation - Bibliographic re umentation - Numbering of o iplomovou práci, z taliančin	čka. 1. vyd. Vydavateľstvo Osveta : Martin, ferences. Content, form and structure. divisions and subdivisions in written documents. y Come si fa una tesi di laures, Milano, 1977, ovej práce podľa odporúčania vedúceho
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 398	
	abs	n
	99.75	0.25
Provides: RNDr. Pete PhD.	er Gurský, PhD., doc. RNDr.	Ľubomír Šnajder, PhD., RNDr. František Galčík,
Date of last modifica	ntion: 03.05.2015	
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.	

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KPPaPZ/PPZMg	g/12 Course name: Psychology and Health Psychology (Master's Study)				
Recommended	Lecture / Practice l course-load (h 2 Per study perio	ours):			
Number of cred	lits: 4				
Recommended	semester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities:					
Conditions for a	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	je:				
Notes:					
Course assessm Total number of		ts: 223			
А	В	С	D	Е	FX
19.73	25.56	25.56	12.56	16.14	0.45
Provides: PhDr. PhD.	Anna Janovská,	PhD., PhDr. Ka	rolína Barinková	, PhD., Mgr. Luc	ia Hricová,
Date of last mod	dification: 03.05	5.2015			
Approved: prof.	. RNDr. Viliam (Geffert, DrSc.			

University: P. J. Šaf	árik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚINF/ PPU1a/15	Course name: Running p	ractice	
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: pr	ice urse-load (hours): udy period: 28		
Number of credits:	2		
Recommended sem	ester/trimester of the cour	se: 2.	
Course level: II.			
Prerequisities:			
Conditions for cour	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 127		
	abs	n	
	99.21 0.79		
Provides:			
Date of last modific	eation: 03.05.2015		
Approved: prof. RN	Dr. Viliam Geffert, DrSc.		

University: P. J. Šaf	árik University in Košice			
Faculty: Faculty of	Science			
Course ID: ÚINF/ PPU1b/15	Course name: Running p	practice		
Course type, scope Course type: Pract Recommended cou Per week: 3 Per st Course method: pr	ice 1rse-load (hours): udy period: 42			
Number of credits:	3			
Recommended sem	ester/trimester of the cou	rse: 3.		
Course level: II.				
Prerequisities:				
Conditions for cour	se completion:			
Learning outcomes	:			
Brief outline of the	course:			
Recommended liter	ature:			
Course language:				
Notes:				
Course assessment Total number of ass	essed students: 85			
	abs n			
	100.0 0.0			
Provides:		·		
Date of last modific	ation: 03.05.2015			
Approved: prof. RN	Dr. Viliam Geffert, DrSc.			

University: P. J. Šafá	nrik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Ae	robic Exercise	
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ce rse-load (hours): tudy period: 504		
Number of credits:	2		
Recommended seme	ester/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 7		
abs n			
	57.14 42.86		
Provides: Mgr. Alen	a Buková, PhD., Mgr. Agata	Horbacz, PhD.	
Date of last modific	ation: 03.05.2015		
Approved: prof. RN	Dr. Viliam Geffert, DrSc.		

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science				
Course ID: ÚINF/ OPS1/15	Course na	me: Security of	computer networ	rks	
Course type, scop Course type: Lec Recommended c Per week: 2 / 2 P Course method:	eture / Practice ourse-load (h er study perio	ours):			
Number of credits	s: 5				
Recommended ser	mester/trimes	ster of the cours	e: 2., 4.		
Course level: II.					
Prerequisities:					
Conditions for con	urse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as		ts: 5			
A	В	С	D	Е	FX
60.0	0.0	0.0	40.0	0.0	0.0
Provides: doc. Ing Jozef Jirásek, PhD.		lová, CSc., RND	r. Rastislav Krivo	oš-Belluš, PhD.,	doc. RNDr.
Date of last modif	ication: 03.05	5.2015			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚMV VKM/10	IV/ Course name: Selected topics in mathematics					
Course type, sco Course type: Lo Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (h Per study perio	ours):				
Number of credi	its: 5					
Recommended s	emester/trimes	ster of the cours	se: 1.			
Course level: II.						
Prerequisities:						
Conditions for c Awarded accordi points).	-		points), written o	exam (20 points)	, oral exam (40	
Learning outcom Students learn th linear and intege	e fundamentals	1 2	• • • •		of polynomials,	
Brief outline of the Probability: class geometrical prob Random processe Polynomials ove Formulation of life for integer program	sical definition ability. es, Markov chai r a field. Decon near and integer	ins. position into irr	educible factors.	Roots of polynor	nials.	
Recommended I G. Birkhoff, S. M T. Katriňák a kol Plesník, Dupáčov Riečan a kol.:Pra Skřivánková V.:	IacLane: Prehľa .: Algebra a teo vá, Vlach: Linea vdepodobnosť	retická aritmetik árne programova a matematická š	a 1, Alfa Bratisla nie, Alfa, Bratisl tatistika, Alfa, Br	va, 1985 ava 1990 atislava, 1984		
Course language Slovak	2:					
Notes:						
Course assessme Total number of		ts: 31				
A	В	С	D	Е	FX	
12.9	19.35	32.26	16.13	16.13	3.23	
Provides: doc. R	NDr. Miroslav	Ploščica, CSc., d	oc. RNDr. Roma	n Soták, PhD.	3	

Date of last modification: 03.05.2015

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ SWB/15	Course name: Semantic web
Course type, scope a Course type: Practic Recommended cour Per week: 3 Per stu Course method: pre	ce rse-load (hours): dy period: 42
Number of credits: 4	
Recommended seme	ster/trimester of the course: 2.
Course level: II.	
Prerequisities:	
Conditions for cours	e completion:
	ntic web languages RDF, RDFS, OWL, ability to use them ina practical tions, experience with ontology modelling and communication with ontology
 Semantic web - mot XML, syntax, program Examples in of proce Semantic web mode Semantic web query 	tivation, problems, visions. ramming models DOM, SAX, StAX, namespaces in XML, XPath, XQuery. essing in Java. elling languages: RDF, RDFS, OWL y language SPARQL a, Sesame, Protege, Ontopia cription logic
Edition. MIT Press, 2 [2] Franz Baader, Die Peter Patel-Schneider Implementation and 4 [3] http://www.openro [4] http://protege.stan [5] http://jena.sourced	and Frank van Harmelen: Semantic Web Primer, Second 2008. ISBN: 978-0-262-01242-3 ego Calvanese, Deborah McGuinness, Daniele Nardi, r: The Description Logic Handbook. Theory, Applications df.org/ nford.edu/
[0] mup.// w w w.w 5.01	6/ IIVIGI Spargi-guory/
Course language:	

Course assessment Total number of assessed students: 37					
А	В	С	D	Е	FX
75.68	8.11 10.81 0.0 0.0 5.41				
Provides: RND	Provides: RNDr. Peter Gurský, PhD.				
Date of last modification: 03.05.2015					
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Universi	ty in Košice				
Faculty: Faculty	of Science					
Course ID: ÚIN SPS1/15	F/ Course na	Course name: Seminar in network programming				
	ractice course-load (ho r study period:	ours):				
Number of cred	its: 3					
Recommended s	emester/trimest	ter of the cours	e: 1., 3.			
Course level: I.,	II.					
Prerequisities:						
Conditions for c	ourse completio	on:				
Learning outcor To render curren		programing in	network distribu	ted environment.		
Procedure Calls. ASP, JSP, Comp Model, XML, X Advanced level	Server-side prog oonent Object Mo SL, dynamic exto of programming	gramming, CGI, odel, Corba, da ensions of HTM	PHP, basics of P tabase connectio	and concurrent s Perl and Python. S on's interfaces. De	cript languages	
Recommended I Internet sources		1S.				
Course language	e:					
Notes:						
Notes: Course assessme Total number of		s: 50				
Course assessme		s: 50 C	D	E	FX	
Course assessme Total number of	assessed student		D 0.0	Е 2.0	FX 0.0	
Course assessme Total number of A 68.0	assessed student B 16.0	C 14.0				
Course assessme Total number of A	assessed student B 16.0 Rastislav Krivo	C 14.0 š-Belluš, PhD.				

University: P. J. Šafa	árik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚINF/ DST1a/15	Course name: Seminar in theoretical informatics				
Course type, scope a Course type: Practa Recommended cou Per week: 2 Per stu Course method: pr	ice irse-load (hours): udy period: 28				
Number of credits:	2				
Recommended sem	ester/trimester of the course	e: 2.			
Course level: II.					
Prerequisities:					
Conditions for cour	se completion:				
current state in the a	edges in the area of the theor rea using conference proceed	etical informatics in the seminar form. To follow lings and special journals.			
Brief outline of the Seminar is oriented t theoretical foundation	to an individual work with stu	udents which have the diploma theses in the area:			
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil unentation - Bibliographic re	omaa theses according to recommendations of kačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.			
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 3				
	abs	n			
	100.0	0.0			
Provides: prof. RND	Dr. Viliam Geffert, DrSc.				
Date of last modific	ation: 03.05.2015				

University: P. J. Šafa	árik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚINF/ DST1b/15	Course name: Seminar in theoretical informatics				
Course type, scope a Course type: Pract Recommended cou Per week: 2 Per stu Course method: pr	ice irse-load (hours): udy period: 28				
Number of credits:	2				
Recommended sem	ester/trimester of the cours	e: 3.			
Course level: II.					
Prerequisities: ÚIN	F/DST1a/15				
Conditions for cour	se completion:				
current state in the a Brief outline of the	edges in the area of the theor rea using conference proceed course:	etical informatics in the seminar form. To follow lings and special journals.			
theoretical foundation		adents which have the appoint theses in the area.			
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of ačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.			
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 2				
	abs	n			
	100.0 0.0				
	100.0	0.0			
Provides: prof. RNE	100.0 Dr. Viliam Geffert, DrSc.	0.0			
Provides: prof. RNE Date of last modific	Dr. Viliam Geffert, DrSc.	0.0			

Faculty: Faculty of Science					
Course ID: ÚINF/ Course name: Se 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 semester/trimester of t	he course: 2.				
Course level: II.					
Prerequisities:					
Conditions for course completion:					
Learning outcomes: To study new knowledges in the area of state in the area using conference procee	applied informatics in the seminar form. To follow current edings and specialized journals.				
Brief outline of the course: Seminar is oriented to an individual wo information system development, applic	rk with students which have the diploma theses related to cation of combinatorial algorithms etc.				
supervisor. Katuščák, D.: Ako písať vysokoškolské ISO 690: 1987 Documentation - Bibliog	d to Diplomaa theses according to recommendations of a kvalifikačné práce, 2. vydanie Bratislava, 1998 graphic references. Content, form and structure. bering of divisions and subdivisions in written documents.				
Course language:					
Notes:					
Course assessment Total number of assessed students: 12					
abs	n				
91.67	8.33				
Provides: doc. RNDr. Gabriel Semanišin	n, PhD.				
Date of last modification: 03.05.2015					
Approved: prof. RNDr. Viliam Geffert,	DrSc.				

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ DSA1b/15	Course name: Seminar on	applied informatics
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): ıdy period: 28	
Number of credits: 2	2	
Recommended seme	ester/trimester of the cours	e: 3.
Course level: II.		
Prerequisities: ÚINF	5/DSA1a/15	
Conditions for cours	se completion:	
state in the area using Brief outline of the of Seminar is oriented t	g conference proceedings an course: to an individual work with s	tudents which have the diploma theses related to
Recommended litera Special and research supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	ature: literature connected to Diplo isať vysokoškolské a kvalifil mentation - Bibliographic re	combinatorial algorithms etc. omaa theses according to recommendations of kačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 10	
	abs	n
	100.0	0.0
Provides: doc. RND	. Gabriel Semanišin, PhD.	
Date of last modifica	ation: 03.05.2015	
Approved: prof. RN		

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN SPG1/15	ÚINF/ Course name: Seminar on computer graphics				
Course type, sco Course type: Pr Recommended Per week: 2 Per Course method	ractice course-load (h r study period:	ours):			
Number of credi	its: 3				
Recommended s	emester/trime	ster of the cours	e: 2., 4.		
Course level: II.					
Prerequisities:					
Conditions for c	ourse completi	ion:			
Learning outcom	nes:				
presents actual the algorithms of con	te to the lecture neoretical and in mputer graphics	e UGR Introduction mplementation pr s, geometric mode iR and good prog	oblems. Main go elling and realist	oal in interest is o tic drawing of sce	priented to quick enes.
Recommended l	iterature:				
Course language	2:				
Notes:					
Course assessme Total number of		nts: 33			
A	В	C	D	E	FX
75.76	12.12	9.09	3.03	0.0	0.0
Provides: RNDr.	Rastislav Krive	oš-Belluš, PhD., o	doc. RNDr. Joze	f Jirásek, PhD.	
Date of last mod	ification: 03.05	5.2015			

University: P. J. Š	afárik Universit	ty in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚINF SDM1a/15					
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	actice course-load (ho study period: 2	urs):			
Number of credit	s: 2				
Recommended se	mester/trimest	er of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completio	n:			
Learning outcom Deepened knowle		overview of the	e state-of-the-art	in the area of dat	ta mining.
Brief outline of the seminar is de		nd discussion a	bout recent advar	nces in the field	of data mining
Recommended life Jiawei Han, Mich Kaufmann, ISBN Pang-Ning Tan, M ISBN 978-032132 Ethem Alpazdin. 2004.	eline Kamber, J 978-012381479 Iichael Steinbac 21367, 2005.	91, 2011. ch, Vipin Kuma	r. Introduction to	Data Mining. A	ddison-Wesley
Course language:					
Notes:					
Course assessme Total number of a		s: 23			
A	В	С	D	Е	FX
47.83	8.7	21.74	13.04	8.7	0.0
Provides: RNDr. '	Гота́š Horváth,	PhD.			·
Date of last modi	fication · 03 05	2015			
Dute of fast moul	incation: 05.05.	2015			

University: P. J. Šafa	irik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ DSL1a/15	Course name: Seminar on	logic of information systems
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce rse-load (hours): ıdy period: 28	
Number of credits:	2	
Recommended sem	ester/trimester of the cours	e: 2.
Course level: II.		
Prerequisities:		
Conditions for cour	se completion:	
-	edges in the area of logic of ir ent state in the area using con	formation and knowledge systems in the seminar nference proceedings and special journals.
	o an individual work with stu	adents which have the diploma theses in the area:
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of cačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 1	
	abs	n
	100.0	0.0
Provides: RNDr. Pet	er Gurský, PhD., RNDr. Ton	náš Horváth, PhD.
Date of last modific	ation: 03.05.2015	
Approved: prof. RN	Dr. Viliam Geffert, DrSc.	

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ DSL1b/15	Course name: Seminar on	logic of information systems
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ice irse-load (hours): idy period: 28	
Number of credits:	2	
Recommended seme	ester/trimester of the cours	e: 3.
Course level: II.		
Prerequisities: ÚINI	F/DSL1a/15	
Conditions for cour	se completion:	
•	edges in the area of logic of ir ent state in the area using con	formation and knowledge systems in the seminar nference proceedings and special journals.
	to an individual work with stu	idents which have the diploma theses in the area:
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of cačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 13	
	abs	n
	100.0	0.0
Provides: RNDr. Pet	er Gurský, PhD., RNDr. Ton	náš Horváth, PhD.
Date of last modific	ation: 03.05.2015	
Approved: prof. RN		

University: P. J. Šafá	árik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚINF/ DSN1a/15			
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ice irse-load (hours): idy period: 28		
Number of credits:	2		
Recommended seme	ester/trimester of the course	e: 2.	
Course level: II.			
Prerequisities:			
Conditions for cour	se completion:		
follow current state i	edges in the area of neural n in the area using conference p	etworks and stringology in the seminar form. To proceedings and special journals.	
Brief outline of the of Seminar is oriented to neural networks and	to an individual work with stu	idents which have the diploma theses in the area:	
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifik mentation - Bibliographic re	omaa theses according to recommendations of ačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.	
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 3		
	abs	n	
	100.0	0.0	
Provides: doc. RND	r. Gabriela Andrejková, CSc.		
Date of last modification	ation: 03.05.2015		
Approved: prof. RN	Dr. Viliam Geffert, DrSc.		

University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ DSN1b/15	Course name: Seminar on	neural networks and stringology
Course type, scope : Course type: Pract Recommended cou Per week: 2 Per str Course method: pr	ice ırse-load (hours): udy period: 28	
Number of credits:	2	
Recommended sem	ester/trimester of the cours	e: 3.
Course level: II.		
Prerequisities:		
Conditions for cour	rse completion:	
•	ledges in the area of neural n in the area using conference	etworks and stringology in the seminar form. To proceedings and special journals.
Seminar is oriented neural networks and		udents which have the diploma theses in the area:
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	i literature connected to Diplo úsať vysokoškolské a kvalifil umentation - Bibliographic re	omaa theses according to recommendations of kačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 1	
	abs	n
	100.0	0.0
Provides: doc. RND	r. Gabriela Andrejková, CSc.	
Date of last modific	ation: 03.05.2015	
Annuarada anaf DN	Dr. Viliam Geffert, DrSc.	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ DSB1a/15	Course name: Seminar on	security of computer networks
Course type, scope a Course type: Practio Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28	
Number of credits: 2	2	
Recommended seme	ster/trimester of the cours	e: 2.
Course level: II.		
Prerequisities:		
Conditions for cours	e completion:	
Learning outcomes:		
Brief outline of the c Seminar is oriented to the security of compu	o an individual work with stu	idents which have the diploma theses in the area:
supervisor. Katuščák, D.: Ako pí ISO 690: 1987 Docu	literature connected to Diplo sať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of kačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 3	
	abs	n
	100.0	0.0
Provides: doc. RNDr	. Jozef Jirásek, PhD.	
Date of last modifica	tion: 03.05.2015	

University: P. J. Šafá	nrik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ DSB1b/15	Course name: Seminar on	security of computer networks
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce rse-load (hours): 1dy period: 28	
Number of credits: 2	2	
Recommended seme	ester/trimester of the course	e: 3.
Course level: II.		
Prerequisities:		
Conditions for cour	se completion:	
networks. To follow Brief outline of the	to study new knowledges in current state in the area using course:	the area of cryptology and security of computer g conference proceedings and special journals.
the security of comp		
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifik mentation - Bibliographic re	omaa theses according to recommendations of ačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 3	
	abs	n
	100.0	0.0
Provides: doc. RND	r. Jozef Jirásek, PhD.	
Date of last modific:	ation: 03.05.2015	
Annroved prof DN	Dr. Viliam Geffert, DrSc.	

University: P. J. Šafá	rik University in Ko	všice
Faculty: Faculty of S	cience	
Course ID: ÚINF/ SDI1a/15	Course name: Sen	ninar to diploma theses in informatics
Course type, scope a Course type: Practi- Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): idy period: 28	
Number of credits: 2	2	
Recommended seme	ster/trimester of th	e course: 2.
Course level: II.		
Prerequisities: ÚINF	S/PDSI1/15	
Conditions for cours	se completion:	
Learning outcomes: Monitoring and publ		ork done so fare on thesis preparation
recognition, the follo thirty pages) and at le area, possible researc judged more strictly) help and user friendly For both parts there v	compulsory theoretic wing is necessary: a east twenty pages of h goals, own results . For the SW part: a te y user interface not r will be an oral preser	cal part and may also contain a software part. To gain detailed compilation of studied literature (a minimum of text containing the candidate's own views of the problem are welcome (if the thesis is purely theoretical, this will be ested implementation (must conform to user requirements, necessary at this stage) and access to source texts. ntation and discussion.
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 120	
	abs	n
	07.5	2.5
	97.5	
Provides: doc. RNDr	,	vá, CSc., doc. RNDr. Jozef Jirásek, PhD.
Provides: doc. RNDr Date of last modifica	. Gabriela Andrejko	

University: P. J. Safa	rik University in Košic	ce
Faculty: Faculty of S	science	
Course ID: ÚINF/ SDI1b/15	Course name: Semin	nar to diploma theses in informatics
Course type, scope a Course type: Practi- Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): ıdy period: 28	
Number of credits: 2	2	
Recommended seme	ester/trimester of the o	course: 3.
Course level: II.		
Prerequisities: ÚINF	7/SDI1a/15	
Conditions for cours	se completion:	
Learning outcomes: Monitoring and publ		c done so fare on thesis preparation
recognition, the follo thirty pages) and at le area, possible researc judged more strictly). help and user friendly	compulsory theoretical owing is necessary: a de east twenty pages of tex th goals, own results are . For the SW part: a test	I part and may also contain a software part. To gain etailed compilation of studied literature (a minimum of xt containing the candidate's own views of the problem e welcome (if the thesis is purely theoretical, this will be ted implementation (must conform to user requirements, cessary at this stage) and access to source texts. ation and discussion.
	ature:	
Recommended litera		
Recommended litera Course language:		
Course language:	ssed students: 111	
Course language: Notes: Course assessment	essed students: 111 abs	n
Course language: Notes: Course assessment		n 0.0
Course language: Notes: Course assessment Total number of asse	abs 100.0	
Course language: Notes: Course assessment Total number of asse	abs 100.0 r. Gabriela Andrejková	0.0

-	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚINF/ SDI1c/15					
Course type, scope a Course type: Practio Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28				
Number of credits: 2					
Recommended seme	ster/trimester of the cou	rse: 4.			
Course level: II.					
Prerequisities: ÚINF	/SDI1b/15				
Conditions for cours	e completion:				
Learning outcomes: Monitoring and public	e presentation of work do	one so fare on thesis preparation			
recognition, the follo thirty pages) and at le area, possible researc judged more strictly). help and user friendly	ompulsory theoretical pa wing is necessary: a detai east twenty pages of text of h goals, own results are we For the SW part: a tested is	art and may also contain a software part. To gain led compilation of studied literature (a minimum of containing the candidate's own views of the problem elcome (if the thesis is purely theoretical, this will be implementation (must conform to user requirements, sary at this stage) and access to source texts. n and discussion.			
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 97				
	abs	n			
	100.0	0.0			
Provides: doc. RNDr	. Gabriela Andrejková, C	Sc., doc. RNDr. Jozef Jirásek, PhD.			
Date of last modifica	tion: 03 05 2015				
Date of last mounted					

University: P. J. Šafán	ik University	in Košice				
Faculty: Faculty of So	cience					
Course ID: KPPaPZ/SPVKE/07						
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	e se-load (hour dy period: 28					
Number of credits: 2						
Recommended seme	ster/trimester	of the course: 2.				
Course level: II.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asses	sed students:	111				
abs		n	Z			
97.3 2.7 0.0						
Provides: Mgr. Ondre	j Kalina, PhD					
Date of last modifica	tion: 03.05.20	15				
Approved: prof. RNI	r. Viliam Geff	fert, DrSc.				

University: P. J.	Šafárik Univers	sity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN PRJm1a/15	F/ Course na	ame: Software pr	oject					
Course type, sco Course type: P Recommended Per week: 4 Pe Course method	ractice course-load (h r study period	ours):						
Number of cred	its: 4							
Recommended	semester/trime	ster of the cours	e: 2.					
Course level: II.								
Prerequisities:								
Conditions for a	course complet	ion:						
	ods in a preparat	ion of some bigge entation, testing).		phases of its life	cycle (analysis,			
They report regulation defense session This semester is system specifica Project themes enrolment for the subjects (neural systems and con	ularly on their p before an exami- s mainly devote tion. will be publishe ne following yea networks, comp nputer graphics	ork on their own rogress. Before re- nation board. d to a detailed a d at the Compute ar. The projects v outer network sec). The student sha th the subject of l	ecognition they r nalysis of user r er Science Depar vill be divided in urity, mathemati all enrol in one o	report on their pr requirements and the prior to the nto five areas ac cal models, logic	ogress in public d corresponding he students final cording to their c of information			
Recommended	literature:							
Course languag	e:							
Notes:								
Course assessm Total number of		nts: 0						
А	В	B C D E FX						
0.0	0.0	0.0	0.0	0.0	0.0			
Provides: Mgr. A	Alexander Szaba	ari, PhD., RNDr.	Róbert Novotný,	, PhD.				
Date of last mod	lification: 03.03	5.2015						
Approved: prof.	RNDr. Viliam	Geffert, DrSc.						

		sity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚINI PRJm1b/15	F/ Course name: Sofware project					
Course type, sco Course type: Pr Recommended Per week: 4 Per Course method	ractice course-load (h r study period:	ours):				
Number of credi	its: 4					
Recommended s	semester/trimes	ster of the cours	e: 3.			
Course level: II.						
Prerequisities: Ú	JINF/PRJm1a/1	.5				
Conditions for c	ourse completi	ion:				
Learning outcom To learn a metho specifications, so Brief outline of t The work in the s	ds in a preparat olution, implem the course:	entation, testing)		-		
To learn a methors specifications, so Brief outline of t	ds in a preparat olution, implem the course: seminar continu	entation, testing) tes on the project	by a realisation of	of the developed		
To learn a metho specifications, so Brief outline of t The work in the s on a documetatio	ds in a preparat olution, implem the course: seminar continu on of the project	entation, testing) tes on the project	by a realisation of	of the developed		
specifications, so Brief outline of t The work in the s	ds in a preparat olution, implem the course: seminar continu on of the project iterature:	entation, testing) tes on the project	by a realisation of	of the developed		
To learn a methorspecifications, so Brief outline of t The work in the son a documetation Recommended line Course language	ds in a preparat olution, implem the course: seminar continu on of the project iterature:	entation, testing) tes on the project	by a realisation of	of the developed		
To learn a methorspecifications, so Brief outline of t The work in the son a documetation Recommended In	ds in a preparat olution, implem the course: seminar continu on of the project iterature: e:	entation, testing) tes on the project t and a public pre	by a realisation of	of the developed		
To learn a metho specifications, so Brief outline of t The work in the s on a documetation Recommended li Course language Notes: Course assessme	ds in a preparat olution, implem the course: seminar continu on of the project iterature: e:	entation, testing) tes on the project t and a public pre	by a realisation of	of the developed		
To learn a methorspecifications, so Brief outline of t The work in the son a documetation Recommended line Course language Notes: Course assessme Total number of	ds in a preparat olution, implem the course: seminar continu on of the project iterature: e: ent assessed studen	entation, testing) tes on the project t and a public pre	by a realisation of the sentation of the	of the developed a results.	solution, a worl	
To learn a metho specifications, so Brief outline of t The work in the s on a documetation Recommended li Course language Notes: Course assessme Total number of A 0.0	ds in a preparat olution, implem the course: seminar continu on of the project iterature: e: ent assessed studen B 0.0	entation, testing) tes on the project t and a public pre- nts: 0 C 0.0	by a realisation of the provident of the	E 0.0	solution, a worl	
To learn a methorspecifications, so Brief outline of t The work in the son a documetation Recommended line Course language Notes: Course assessme Total number of A	ds in a preparat olution, implem the course: seminar continu on of the project iterature: e: ent assessed studen B 0.0 Alexander Szaba	entation, testing) tes on the project t and a public pre- nts: 0 C 0.0 ari, PhD., RNDr.	by a realisation of the provident of the	E 0.0	solution, a worl	

University: P. J. Šafán	ik Univers	ity in Košice			
Faculty: Faculty of So	cience				
Course ID: ÚTVŠ/ TVa/11	Course na	me: Sports Activities I.			
Course type, scope an Course type: Practic Recommended cour Per week: 2 Per stue Course method: pre	e se-load (he dy period:	ours):			
Number of credits: 2					
Recommended semes	ster/trimes	ter of the course: 1.			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completi	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	sed studen	ts: 7947			
abs		n	neabs		
87.96	87.96 8.12 3.93				
Ivan Matúš, PhD., Mg PhD., PaedDr. Milena RNDr. Stanislav Voká	r. Zuzana H Švedová, l l, DrSc., M	, doc. PhDr. Ivan Šulc, CSc., doc. Küchelová, Mgr. Peter Bakalár, Ph PhD., Mgr. Agata Horbacz, PhD., gr. Lucia Kršňáková, PhD., Mgr.	nD., doc. PaedDr. Ivan Uher, Mgr. Marek Valanský, prof.		
Date of last modifica	tion: 03.05	.2015			
Approved: prof. RNE	Dr. Viliam C	Geffert, DrSc.			

University: P. J. Šafá	rik Univers	ity in Košice				
Faculty: Faculty of S	cience					
Course ID: ÚTVŠ/ TVb/11						
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (h dy period:	ours):				
Number of credits: 2	2					
Recommended seme	ster/trimes	ster of the course: 2.				
Course level: I., I.II.,	II.					
Prerequisities:						
Conditions for cours	e completi	on:				
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	iture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed studen	ts: 7437				
abs		n	neabs			
85.03 10.93 4.03						
Ivan Matúš, PhD., Mg PhD., PaedDr. Milena	gr. Zuzana I Švedová, I il, DrSc., M	o, doc. Mgr. Rastislav Feč, PhD., č Küchelová, doc. PaedDr. Ivan Uhe PhD., Mgr. Agata Horbacz, PhD., Igr. Lucia Kršňáková, PhD., Mgr.	er, PhD., Mgr. Peter Bakalár, Mgr. Marek Valanský, prof.			
Date of last modifica	tion: 03.05	5.2015				
Approved: prof RNI	Dr. Viliam (Seffert DrSc				

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Šafárik U	Iniversity in Košice					
Faculty: Faculty of Science	ce					
Course ID: ÚTVŠ/ Cou TVc/11	1					
Course type, scope and the Course type: Practice Recommended course-le Per week: 2 Per study p Course method: present	oad (hours): eriod: 28					
Number of credits: 2						
Recommended semester/	trimester of the course: 3.					
Course level: I., I.II., II.						
Prerequisities:						
Conditions for course co	mpletion:					
Learning outcomes:						
Brief outline of the cours	e:					
Recommended literature	•					
Course language:						
Notes:						
Course assessment Total number of assessed	students: 4650					
abs	n	neabs				
89.63 4.71 5.66						
Mgr. Ivan Matúš, PhD., M Švedová, PhD., Mgr. Peter	Staško, doc. Mgr. Rastislav Feč, Ph gr. Zuzana Küchelová, doc. PaedDr Bakalár, PhD., Mgr. Agata Horbac Sc., Mgr. Lucia Kršňáková, PhD., N	: Ivan Uher, PhD., PaedDr. Milena z, PhD., Mgr. Marek Valanský, prof.				
Date of last modification	: 03.05.2015					
Approved: prof. RNDr. V	ïliam Geffert, DrSc.					

University: P. J. Šafárik U	niversity in Košice			
Faculty: Faculty of Science	e			
Course ID: ÚTVŠ/ Cou TVd/11	rse name: Sports Activities IV.			
Course type, scope and th Course type: Practice Recommended course-lo Per week: 2 Per study po Course method: present	oad (hours):			
Number of credits: 2				
Recommended semester/	trimester of the course: 4.			
Course level: I., I.II., II.				
Prerequisities:				
Conditions for course cor	npletion:			
Learning outcomes:				
Brief outline of the cours	e:			
Recommended literature				
Course language:				
Notes:				
Course assessment Total number of assessed s	students: 3884			
abs	n	neabs		
85.79 6.77 7.44				
Ivan Matúš, PhD., Mgr. Zu PhD., doc. PaedDr. Ivan U	zana Küchelová, PaedDr. Milena Šv her, PhD., Mgr. Agata Horbacz, PhI Sc., Mgr. Lucia Kršňáková, PhD., N	-		
Date of last modification:	03.05.2015			
Approved: prof. RNDr. Vi	liam Geffert, DrSc.			

University: P. J. Š	afárik Universi	ty in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚINF SVK1/15	/ Course na	me: Student sci	entific conferenc	e	
Course type, scop Course type: Recommended c Per week: Per s Course method:	course-load (ho tudy period:				
Number of credit	s: 4				
Recommended se	mester/trimes	ter of the cours	e: 4.		
Course level: I., I	I				
Prerequisities:					
Conditions for co	urse completio	on:			
Learning outcom	es:				
Brief outline of th	ne course:				
Recommended life	terature:				
Course language:					
Notes:					
Course assessmer Total number of a		s: 116			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:			1		
Date of last modi	fication: 03.05	2015			
Approved: prof. H	RNDr. Viliam G	effert, DrSc.			

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	Science					
Course ID: ÚTVŠ/ LKSp//13						
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ce rse-load (hours): tudy period: 504					
Number of credits:	2					
Recommended seme	ester/trimester of the cour	se:				
Course level: I., II.						
Prerequisities:						
Conditions for cour	se completion:					
Learning outcomes:						
Brief outline of the	course:					
Recommended liter	ature:					
Course language:						
Notes:						
Course assessment Total number of asse	essed students: 92					
	abs n					
35.87 64.13						
Provides: Mgr. Peter	Bakalár, PhD.	•				
Date of last modific:	ation: 03.05.2015					
Approved: prof. RN	Dr. Viliam Geffert, DrSc.					

University: P. J. Šafá	nrik University in Košice					
Faculty: Faculty of S	Science					
Course ID: ÚTVŠ/ KP/12						
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per st Course method: pr	ce rse-load (hours): tudy period: 504					
Number of credits: 2	2					
Recommended seme	ester/trimester of the cours	e:				
Course level: I., II.						
Prerequisities:						
Conditions for cour	se completion:					
Learning outcomes:						
Brief outline of the o	course:					
Recommended liter	ature:					
Course language:						
Notes:						
Course assessment Total number of asse	essed students: 251					
	abs	n				
	43.82 56.18					
Provides: Mgr. Mare	k Valanský, MUDr. Peter D	ombrovský				
Date of last modific:	ation: 03.05.2015					
Approved: prof. RN	Dr. Viliam Geffert, DrSc.					

University: P. J. S	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: KPPaPZ/UPR/03	Course na	Course name: The Art of Aiding by Verbal Exchange					
Course type, sco Course type: Pr Recommended Per week: 2 Per Course method	actice course-load (h · study period:	ours):					
Number of credi	ts: 2						
Recommended se	emester/trimes	ter of the cours	e: 4.				
Course level: II.							
Prerequisities:							
Conditions for co	ourse completi	on:					
Learning outcom	nes:						
Brief outline of t	he course:						
Recommended li	terature:						
Course language	•						
Notes:							
Course assessme Total number of a	-	ts: 49					
А	В	С	D	Е	FX		
85.71	4.08	2.04	2.04	2.04	4.08		
Provides: Mgr. O	ndrej Kalina, P	hD.					
Date of last mod	ification: 03.05	.2015					
Approved: prof.	RNDr. Viliam (Geffert, DrSc.					

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	Science		-	
Course ID: ÚTVŠ/ ZKLS//13	Course name: Winter Ski Training Course			
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per st Course method: pro	ce rse-load (hours): tudy period: 504			
Number of credits: 2	2		_	
Recommended semester/trimester of the course:				
Course level: I., II.				
Prerequisities:				
Conditions for cours	se completion:		_	
Learning outcomes:				
Brief outline of the o	course:		-	
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 81			
	abs	n		
	32.1	67.9		
Provides: PaedDr. In	nrich Staško, doc. PhDr. Ivar	ı Šulc, CSc.		
Date of last modific:	ation: 03.05.2015		-	
Approved: prof. RN	Dr. Viliam Geffert, DrSc.		-	

University: P. J. Šaf	ărik University in Košice			
Faculty: Faculty of Science				
Course ID: D PrávF/ZP2/11	Course name: Základy práva pre prirodovedcov II			
Course type, scope Course type: Lectu Recommended cou Per week: 2 / 1 Pe Course method: p	ure / Practice urse-load (hours): r study period: 28 / 14			
Number of credits:	4			
Recommended semester/trimester of the course:				
Course level: II.				
Prerequisities:				
Conditions for cou	rse completion:			
Learning outcomes	:			
Brief outline of the	course:			
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of ass	essed students: 95			
	abs	n		
	97.89	2.11		
Provides:				
Date of last modific	cation: 03.05.2015			
Approved: prof. RNDr. Viliam Geffert, DrSc.				