University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚINF/ ABSP/14	Course name: ABAP basi	CS				
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	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	1					
Recommended seme	ster/trimester of the cours	e: 1., 3.				
Course level: I., II., N	N					
Prerequisities: ÚINF	/ZTSP/14 or ÚINF/SAP1a/	06				
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c Principles of program ABAP Open SQL, A operations, cycles, tes ABAP, definition ele	Brief outline of the course: Principles of programming in ABAP, declaration of variables, the basic syntax of the language ABAP Open SQL, ABAP Workbench navigation, ABAP editor, arithmetic, logic conditions, string operations, cycles, test programs using a debugger, an overview of the most important commands of ABAP definition elementary and structured data objects, functional groups and function modules.					
Recommended litera	Recommended literature:					
Course language:						
Notes:	Notes:					
Course assessment Total number of assessed students: 24						
	abs n					
95.83 4.17						
Provides: RNDr. Štefan Pero						
Date of last modification: 18.02.2014						
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.					

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚINF/ OPSP/14	Course name: ABAP obj	Course name: ABAP object and dialog programming				
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 42 / 14 esent					
Number of credits: 5						
Recommended seme	ster/trimester of the cour	se: 2., 4.				
Course level: I., II., N	1					
Prerequisities: ÚINF	/RASP/14					
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c Screen, function code	ourse: es, local and global classes,	inheritance, polymorphism.				
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed students: 20					
	abs n					
50.0 50.0						
Provides: RNDr. Štef	an Pero					
Date of last modifica	tion: 18.02.2014					
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.					

University: P. J. Šafá	rik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚINF/ RASP/14	Course name: ABAP rep	orting					
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present						
Number of credits: 4							
Recommended seme	ster/trimester of the cour	se: 2., 4.					
Course level: I., II., N	1						
Prerequisities: ÚINF	/ABSP/14 or ÚINF/ABA/0	18					
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c Reading database ta working with interna structure, forms and i	Brief outline of the course: Reading database tables, selection screens, events, declarations and branching of programs, working with internal tables, function modules: upload, download and module creation, code structure, forms and includes.						
Recommended litera	Recommended literature:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 20							
abs n							
80.0 20.0							
Provides: RNDr. Štefan Pero							
Date of last modification: 18.02.2014							
Approved: prof. RNDr. Viliam Geffert, DrSc.							

University: P. J. S	Safárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚINF AOS1/07	Course ID: ÚINF/ Course name: Administration of OS							
Course type, scop Course type: Pra Recommended Per week: 2 Per Course method:	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 credit	ts: 2							
Recommended se	emester/trimes	ster of the course	e: 1., 3.					
Course level: I., I	Ι.							
Prerequisities: Ú	INF/OSY1/11							
Conditions for co	ourse completi	on:						
Learning outcom To be able to insta several network d	les: Ill Linux based : leamons.	system, divide dis	sks, to know how	to install, config	gure and manage			
Introduction to OS Linux, history, communication interfaces, directory structure, devices, user administration, UID, GID, permissions, text editors, common commands, installation, LILO, GRUB, configuration after installation, division of disk space, mounting, backups, starting system, crontab, network connection configuration, network monitoring, firewall. Deamons and systems services SSH, Apache, FTP, Samba, NFS, NTP, postfix/sendmail, DHCP, DNS. Compiling the Linux core, configuration, testing								
Linux core, conn	Suration, testing	Recommended literature: NEMETH, E., SNYDER, G., HEIN, T. R.: Linux Administration Handbook, Prentice Hall PTR, 2002 SIEVER, E., WEBER, A., FIGGINS, S., LOVE, R., ROBBINS, A.: Linux in a Nutshell, 5th Edition, 2005						
Recommended li NEMETH, E., SN 2002 SIEVER, E., WE Edition, 2005	terature: NYDER, G., HI BER, A., FIGC	EIN, T. R.: Linux SINS, S., LOVE,	Administration R., ROBBINS, A	Handbook, Prent A.: Linux in a Nu	tice Hall PTR, utshell, 5th			
Recommended li NEMETH, E., SN 2002 SIEVER, E., WE Edition, 2005 Course language	terature: NYDER, G., HI BER, A., FIGC	EIN, T. R.: Linux SINS, S., LOVE,	Administration R., ROBBINS, A	Handbook, Prent	tice Hall PTR, utshell, 5th			
Recommended li NEMETH, E., SN 2002 SIEVER, E., WE Edition, 2005 Course language Notes:	terature: NYDER, G., HI BER, A., FIGC	EIN, T. R.: Linux SINS, S., LOVE,	Administration R., ROBBINS, A	Handbook, Prent	tice Hall PTR, utshell, 5th			
Recommended li NEMETH, E., SN 2002 SIEVER, E., WE Edition, 2005 Course language Notes: Course assessmen Total number of a	terature: NYDER, G., HI BER, A., FIGO :	EIN, T. R.: Linux SINS, S., LOVE, ts: 64	Administration R., ROBBINS, A	Handbook, Prent	tice Hall PTR, utshell, 5th			
Recommended li NEMETH, E., SN 2002 SIEVER, E., WE Edition, 2005 Course language Notes: Course assessment Total number of a A	terature: NYDER, G., HI BER, A., FIGG : nt assessed studen B	EIN, T. R.: Linux SINS, S., LOVE, ts: 64 C	Administration R., ROBBINS, A	Handbook, Prent A.: Linux in a Nu E	tice Hall PTR, utshell, 5th			
Recommended liNEMETH, E., SN2002SIEVER, E., WEEdition, 2005Course languageNotes:Course assessmentTotal number of aA51.56	terature: NYDER, G., HI BER, A., FIGO : nt assessed studen B 23.44	EIN, T. R.: Linux SINS, S., LOVE, ts: 64 C 3.13	Administration R., ROBBINS, A D 6.25	Handbook, Prent A.: Linux in a Nu E 7.81	FX 7.81			
Recommended liNEMETH, E., SN2002SIEVER, E., WEEdition, 2005Course languageNotes:Course assessmentTotal number of aA51.56Provides: RNDr.	terature: NYDER, G., HI BER, A., FIGO : nt assessed studen B 23.44 Peter Gurský, I	EIN, T. R.: Linux SINS, S., LOVE, ts: 64 C 3.13 PhD., RNDr. JUD	Administration R., ROBBINS, A D 6.25 Dr. Pavol Sokol, J	Handbook, Prent A.: Linux in a Nu E 7.81 PhD.	FX 7.81			
Recommended liNEMETH, E., SN2002SIEVER, E., WEEdition, 2005Course languageNotes:Course assessmentTotal number of aA51.56Provides: RNDr.Date of last modifier	terature: NYDER, G., HI BER, A., FIGC : nt assessed studen B 23.44 Peter Gurský, I	EIN, T. R.: Linux SINS, S., LOVE, ts: 64 C 3.13 PhD., RNDr. JUD 2.2014	Administration R., ROBBINS, A D 6.25 Dr. Pavol Sokol, 1	Handbook, Prent A.: Linux in a Nu E 7.81 PhD.	FX 7.81			

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚINF/ ASSP/14	Course name: Administrat	tion of SAP system				
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present					
Number of credits: 4						
Recommended seme	ster/trimester of the cours	e:				
Course level: I., II., N	1					
Prerequisities: ÚINF	/ZLSP/14					
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c Fundamentals (Syste Database, Stopping S Database, Backgroun Database Administra	ourse: m Logon, Configuring SAI SAP / Database), System c nd Tasks(Scheduling Backg tion (Extend Tablespaces).	P Logon), Starting and Stopping (Starting SAP/ onfiguration (Parameters in SAP, Parameters in ground Jobs, Monitoring of Background Jobs),				
Recommended litera	iture:					
Course language:						
Notes:						
Course assessment Total number of assessed students: 11						
	abs n					
100.0 0.0						
Provides: RNDr. Štefan Pero						
Date of last modifica	tion: 17.02.2014					
Approved: prof. RNI	Approved: prof. RNDr. Viliam Geffert, DrSc.					

University: P. J.	. Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚIN APA1/09	VF/ Course na	ame: Approxima	tion algorithms		
Course type, sc Course type: I Recommended Per week: 2 / 1 Course metho	ope and the met Lecture / Practice d course-load (h l Per study perio d: present	thod: ours): od: 28 / 14			
Number of crea	lits: 5				
Recommended	semester/trimes	ster of the cours	e: 3.		
Course level: II	•				
Prerequisities:					
Conditions for	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:			-	
Recommended	literature:				
Course languag	ge:				
Notes:					
Course assessment Total number of assessed students: 110					
А	В	С	D	Е	FX
19.09	14.55	24.55	18.18	22.73	0.91
Provides: prof. RNDr. Viliam Geffert, DrSc., doc. RNDr. Gabriel Semanišin, PhD., RNDr. Ondrej Krídlo, PhD.					
Date of last modification: 03.02.2014					
Approved: prof	. RNDr. Viliam (Geffert, DrSc.			

University: P. J. Šafárik University in Košice
Faculty: Faculty of Science
Course ID: ÚFV/ BIOE1/02Course name: Bioenergetics
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present
Number of credits: 3
Recommended semester/trimester of the course: 2.
Course level: II.
Prerequisities:
Conditions for course completion:
Learning outcomes: To provide the introduction to the fundamental bioenergetic processes in the biological organisms. The emphasis will be on the description of the structure and function of the biomacromolecules involving in the processes of the oxidative phosphorylation. The principles of the membrane transport in the biological systems will be provide as well.
Brief outline of the course: Energy in the biosphere. Fenomenology of bioenergetical processes. Control and regulation in bioenergetics. Chemiosmotic theory. Structure and function of the respiratory chain. Oxidative phosphorylation. The enzymes of the respiratory chain. Structure and function of NADH dehydrogenase (complex I), succinate dehydrogenase (complex II), cytochrome bc1 (complex III) and cytochrome c oxidase (complex IV). Formation of the mitochondrial proton gradient. Photosynthesis-basic informations and mechanisms. Thermodynamics and kinetics of membrane transport. Carriers, pumps and channels in the biological membranes.
 Recommended literature: 1. D. Nicholls and S. Fergusson. Bioenergetics 3, Academic Press, 2002. 2. M. Wikström (Ed.). Biophysical and structural aspects of bioenergetics, The Royal Society of Chemistry, 2005. 3. D. Harris. Bioenergetics at a glance, Blackwell Science Ltd., 1995. 4. V. Saks (Ed.). Molecular system bioenergetics, Wiley-VCH, 2007. 5. I. Scheffer. Mitochondria, John Wiley & Sons, Inc., 1999. 6. A.D.N.J. de Grey. The mitochondrial free radical theory of aging, R.G. Landis Company, 1999. 7. J.A.M. Smeiting, R.C.A. Sengers and J.M.F. Trijbels. Oxidative phosphorylation in health and disease, Kluwer Academic/Plenum Publisher, 2004. 8. N.W.C. Cheetham. Introducing biological energetics, Oxford University Press, 2011.
Course language:
Notes:

Course assessment Total number of assessed students: 22							
А	A B C D E FX						
86.36	86.36 4.55 4.55 0.0 4.55 0.0						
Provides: doc. Mgr. Daniel Jancura, PhD.							
Date of last modification: 10.02.2014							
Approved: prof	Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J.	. Šafárik Univers	ity in Košice					
Faculty: Faculty	y of Science	5					
Course ID: ÚF BSIM1/03	Course ID: ÚFV/ Course name: Biomolecular Simulations BSIM1/03 Course name: Biomolecular Simulations						
Course type, sc Course type: I Recommended Per week: 2 / 2 Course metho	ope and the met Lecture / Practice d course-load (h 2 Per study peri d: present	thod: ours): od: 28 / 28					
Number of crea	lits: 6						
Recommended	semester/trimes	ster of the cours	e: 2.				
Course level: II	•						
Prerequisities:							
Conditions for Elaboration and Development of Exam.	course completi l presentation of f own computer	on: the project on giv programs on proj	ven actual subject given at the	ct. exercises.			
Learning outco Introduction to	mes: actual problemat	ics of biomolecu	lar simulations.				
Brief outline of Structural chara as flow of biolo mechanisms. E force fields an Carlo methods approaches. Co reactions, free approaches and	the course: acteristics of biol gical information xperimental met d methods of c - algorithms and omputational cha energy evaluation	ogical polymers. a. 3D-structure and hods of structure classical molecul l paralelization. < illenges in biom ion, protein fold ches.	Foldamers. Cen ad function of for e determination ar dynamics. M <i>Ab initio</i> olecular simula ling. Computat	ntral dogma of mo oldamers. Recent v and their limitat Molecular dynam molecular dynam tions - simulation ional complexity,	blecular biology view on enzyme ions. Empirical ics and Monte nics and hybrid ns of chemical , nontraditional		
Recommended	literature:						
Actual literature	e recommended l	by lecturer.					
Course languag	ge:						
Notes:							
Course assessment Total number of assessed students: 33							
А	В	С	D	Е	FX		
75.76	75.76 9.09 12.12 0.0 3.03 0.0						
Provides: doc. I	RNDr. Jozef Ulič	čný, CSc.					
Date of last mo	dification: 10.02	2.2014					
Approved: prof	. RNDr. Viliam (Geffert, DrSc.					

University: P. J. Šafărik University in Košice Faculty: Faculty of Science Course ID: UINF/ KKV1/06 Course name: Classical and quantum computations KKV1/06 Course type, scope and the method: Course type, scope and the method: Course type. Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present Recommended semester/trimester of the course: 3. Number of credits: 6 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Written and oral examination Use the state of the course is and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: 1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing McGraw-Hill, 1999. 3JOHNSON, G. A Shortcut Through Tirme: The Pat		
Faculty: Faculty of Science Course ID: ÚINF/ KKV1/06 Course name: Classical and quantum computations Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present Number of credits: 6 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Written work Writen and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm, Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum corro-correcting codes. Recommended literature: 1. BERMAN,G.P., DOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum In	University: P. J. Šafá	rik University in Košice
Course ID: ÚINF/ KKV1/06 Course name: Classical and quantum computations Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present Number of credits: 6 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Written work Writen and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: 1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing, McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004	Faculty: Faculty of S	cience
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 1 Per study period: 42 / 14 Course method: present Number of credits: 6 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Written work Writen and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004	Course ID: ÚINF/ KKV1/06	Course name: Classical and quantum computations
Number of credits: 6 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Written work Written and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: 1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. 5. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004	Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 42 / 14 esent
Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Written work Writen and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: 1. BERMAN, G.P., DOOLEN, G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004	Number of credits: 6	
Course level: II. Prerequisities: Conditions for course completion: Written work Writen and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: 1. 1. BERMAN, G.P., DOOLEN, G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGrav-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. 5. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004	Recommended seme	ster/trimester of the course: 3.
Prerequisities: Conditions for course completion: Written work Writen and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: 1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. 5. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004	Course level: II.	
 Conditions for course completion: Written work Written and oral examination Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. HIRVENSALO, M., Quantum Computing, Springer 2004 	Prerequisities:	
 Learning outcomes: To provide information on quantum computer and quantum computations. To compare classical and quantum models and methods. Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. 	Conditions for cours Written work Writen and oral exam	e completion:
 Brief outline of the course: The basics of classical theory of computation: Turing machines, Boolean circuits, parallel algorithms, probabilistic computation, NP-complete problems, and the idea of complexity of an algorithm. Introduction of general quantum formalism (pure states, density matrices, and superoperators), universal gate sets and approximation theorems. Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. Parallel quantum computation, a quantum analogue of NP-completeness, and quantum error-correcting codes. Recommended literature: 1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. 5. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004 	Learning outcomes: To provide informati and quantum models	on on quantum computer and quantum computations. To compare classical and methods.
 Recommended literature: 1. BERMAN,G.P., DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to Quantum Computers. World Scientific, 2003. 2. GRUSKA, J. Quantum Computing. McGraw-Hill, 1999. 3. JOHNSON, G. A Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. 4. KITAEV, A.Y., SHEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American Mathematical Society, 2002. 5. NIELSEN, M.A., CHUANG, I.L. Quantum Computation and Quantum Information. Cambridge University Press, 2000. 6. HIRVENSALO, M., Quantum Computing, Springer 2004 	Brief outline of the c The basics of class algorithms, probabili an algorithm. Introd superoperators), univ factoring algorithm, a quantum analogue of	ourse: ical theory of computation: Turing machines, Boolean circuits, parallel istic 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.
	Recommended litera 1. BERMAN,G.P., De Quantum Computers. 2. GRUSKA, J. Quan 3. JOHNSON, G. A S 4. KITAEV, A.Y., SH Mathematical Society 5. NIELSEN, M.A., O Cambridge University 6. HIRVENSALO, M	Ature: 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. IEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American 7, 2002. CHUANG, I.L. Quantum Computation and Quantum Information. y Press, 2000. I., Quantum Computing, Springer 2004
Course language:	Course language:	
Notes:	Notes:	

Course assessment Total number of assessed students: 65							
А	A B C D E FX						
24.62	24.62 27.69 12.31 20.0 10.77 4.62						
Provides: doc. RNDr. Gabriel Semanišin, PhD., RNDr. Zuzana Bednárová, PhD.							
Date of last modification: 03.02.2014							
Approved: prot	Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafárik University in Košice								
Faculty: Faculty	of Science							
Course ID: ÚINI KPI1/01	F/ Course na	me: Coding and	information tran	sfer				
Course type, sco Course type: Le Recommended Per week: 2 / 1 Course method	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 credi	ts: 4							
Recommended s	emester/trimes	ter of the course	e: 1., 3.					
Course level: II.								
Prerequisities:								
Conditions for co	ourse completi	o n:						
Learning outcon To provide the s compression.	nes: tudents a know	ledge of basic pr	rinciples of infor	mation theory, c	oding and data			
Introduction to in coding, applicat compression. Sca coding, wavelets fractal compressi	nformation theo ions. Arithmeti alar and vector . Transform cod	ry, entropy, Marl c coding, dictio quantizations. D ing, DFT, DCT, a pression.	kov models. Huf nary techniques vifferential encod application to JPI	fman coding, ada , applications. I ling, delta modul EG. Analysis/syn	aptive Huffman Lossless image lation, subband thesis schemes,			
Recommended literature: D. Hankersson, G. Harris, P. Johnson: Introduction to Information Theory and Data Compression, CRC Pr.,1998 K. Sayood: Introduction to Data Compression, Morgan Kaufmann, 1996 J. Adámek: Coding and Inormation Theory, ČVUT, 1994 (Czech)								
Course language	2.							
Notes:	Notes:							
Course assessment Total number of assessed students: 84								
А	В	С	D	E	FX			
20.24	15.48	19.05	14.29	29.76	1.19			
Provides: doc. R	NDr. Stanislav I	Krajči, PhD., doc	. RNDr. Jozef Jin	rásek, PhD.				
Date of last mod	ification: 03.02	.2014						
Approved: prof.	RNDr. Viliam (Geffert, DrSc.						
Approved: prof.								

k University in Košice							
Faculty: Faculty of Science							
Course name: Combinatorial algorithms							
d the method: / Practice se-load (hours): tudy period: 42 / 14 ent							
ter/trimester of the course: 2.							
completion:							
understand the close tie between the theoretical and algorithmic aspects of nd to show how algorithms can be extacted from theorems. Ability in proving							
ithms and complexity. Sorting algorithms. Search algorithms. Greedy eteness. Generating all spanning trees of a graph. Minimum spanning tree problem. fortest path problem and its analogues. The most reliable path. The largest n with the largest expected capacity. nedians. etion to networks, the max-flow min-cut theorem. Related problems. matchings in bipartite graphs. Maximum matchings in general graphs. ignment problems. hinese postman's problem. ravelling salesman problem.							
ure: Vellermann: Applied and Algorithmic Graph Theory, McGraw-Hill, Inc. ph Theory - An Algorithmic Approach, Academic Press, New York 1975 om 1978). hs, Networks, and Algorithms, Springer-Verlag Berlin 2005. algoritmy, Veda Bratislava 1983. Thulasiraman: Graphs, networks, and algorithms. John Wiley and Sons,							

Slovak						
Notes:						
Course assessment Total number of assessed students: 77						
А	В	С	D	Е	FX	
35.06	19.48	20.78	10.39	12.99	1.3	
Provides: prof.	Provides: prof. RNDr. Stanislav Jendrol', DrSc., RNDr. Pavol Široczki					
Date of last modification: 14.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafárik University in Košice								
Faculty: Faculty of Science								
Course ID: ÚINF VKN/12	Course na	Course name: Computational and cognitive neuroscience						
Course type, scop Course type: Le Recommended Per week: 2 / 1 1 Course method:	be and the me cture / Practice course-load (h Per study peri present	thod: cours): od: 28 / 14						
Number of credit	s: 4							
Recommended se	emester/trime	ster of the course	e: 1., 3.					
Course level: II.								
Prerequisities:								
Conditions for co	ourse completi	ion:						
Learning outcom Advanced topics with focus on co Prerequisite: Intro	es: in study of t mputational co to Neurosicer	the central nervo oncepts importan	ous system and t in the study o	cognitive proces of cognitive and r	sses in human, neural sciences.			
Brief outline of the Selected topics in methods of theore and system-theore models of the hun plasticity.	ne course: n cognitive sci etical study in y principles in nan visual and	ience (following cognitive and neu n modeling of co l auditory system	up on Intro to aral science, incognitive process s, learning, thin	Neuroscience). C cluding connection ses and neural cir king, attention, de	Overview of the histic, statistical rcuits. Selected evelopment and			
Recommended literature: HERTZ, J., KROGH, A. and PALMER R. G.: Introduction to the theory of neural computation. Addison-Wesley 1991 KANDEL, E. R., SCHWARTZ, J. H. and JESSELL, T.M.: Principles of Neural Science. McGraw-Hill, 2000 DAYAN, P. and ABBOTT, L. F.: Theoretical Neuroscience – Computa-tional and Mathematical Modeling of Neural Systems, MIT Press, 2001								
Course language	:							
Notes:								
Course assessment Total number of assessed students: 2								
A	A B C D E FX							
50.0	50.0 0.0 50.0 0.0 0.0 0.0							
Provides: doc. In	g. Norbert Kop	očo, PhD., Ing. Ľu	ıboš Hládek					
Date of last modi	fication: 03.02	2.2014						

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. I. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚINF/ VYZ1/04	D: ÚINF/ Course name: Computational complexity						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	nd the met re rse-load (he dy period: esent	hod: ours): 28					
Number of credits: 4	1						
Recommended seme	ster/trimes	ter of the cours	e: 1.				
Course level: II.							
Prerequisities:							
Conditions for cours Oral examination.	se completi	on:					
Learning outcomes: To give the students completeness.	the theoret	ical background	in computation	al complexity and	d theory of NP-		
Brief outline of the c Deterministic and Deterministic simular Another NP-complet satisfiability, 3-color balancing, Space simulation - Savitch complexity of proble	nondeterminition of a nor tion of a nor te problems rability of bounded h theorem. ms.	nistic algorithm ndeterministic Tu s: satisfiability of a graph, 3-colo computations, of Closure under	ns with polyr uring machine. S of a formula in rability of a p classes LOG-sp r complement	nomial time, N Satisfiability of Bo a conjunctive n lanar graph, kna ace and P-space Classification of	P-completeness. polean formulae. normal form, 3- psack problem, e. Deterministic f computational		
Recommended literature: A.V.Aho and J.D.Ullman. The design and analysis of computer algorithms. Addison-Wesley, 1974. P.van Emde Boas. Machine models and simulations. In J.van Leeuwen (ed.): Handbook of theoretical computer science. North-Holland, 1990. Ch.K.Yap. Introduction to the theory of complexity classes. To be published by Oxford Univ. Press. (Electronic version available via anonymous ftp://cs.nyu.edu/pub/local/yap/complexity- bk).							
Course language:							
Notes:							
Course assessment							
Total number of asse	ssed studen	ts: 296	<u> </u>				
A	В	C	D	E	FX		
52.36	14.86	14.53	9.8	8.45	0.0		

Provides: prof. RNDr. Viliam Geffert, DrSc.

Date of last modification: 03.02.2014

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
Course ID: ÚINF/ Course name: Computational complexity, computational mode EIT/10	Course name: Computational complexity, computational models					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of credits: 0						
Recommended semester/trimester of the course:						
Course level: II.						
Prerequisities: ÚINF/KKV1/06 and (ÚMV/KOA/10 or ÚINF/ANP/13)						
Conditions for course completion:						
Learning outcomes:						
Brief outline of the course:						
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 3						
A B C D E	FX					
0.0 66.67 33.33 0.0 0.0	0.0					
Provides:						
Date of last modification: 03.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J	. Šafárik Univers	sity in Košice					
Faculty: Facult	y of Science						
Course ID: ÚIN VYU1/03	NF/ Course na	IF/ Course name: Computational learning					
Course type, sc Course type: Recommended Per week: 2 / Course metho	cope and the me Lecture / Practice d course-load (h 1 Per study peri d: present	thod: e ours): od: 28 / 14					
Number of cree	dits: 5						
Recommended	semester/trime	ster of the cours	e: 2.				
Course level: I	[.						
Prerequisities:							
Conditions for Recognition, or	course complet al examination.	ion:					
Learning outco To provide the	omes: students basic kr	owledge about co	omputational le	arning algorithms			
Brief outline of Concepts, hyp algorithms for o learning, proba- (VC) dimension	the course: otheses, learnin disjunctions. Pro bly approximated n and learning al	g algorithms. B babilistic learning y correct (PAC) l gorithms.	oolean formul g, consistent alg earning, Occarr	ae and represen sorithms and learn algorithms, Vapr	tation, learning ability, efficient nik-Cervonenkis		
Recommended M. Anthony, N M. J. Kearns, U London, 1994.	literature: . Biggs: Comput J. V. Vazirani: Ai	ational Learning at introduction to (Theory, Cambri Computational	dge University Pr Learning Theory,	ess, 1991. MIT Press		
Course languag	ge:						
Notes:							
Course assessn Total number o	Course assessment Total number of assessed students: 157						
А	В	С	D	E	FX		
12.1	16.56	23.57	15.92	24.2	7.64		
Provides: doc.	RNDr. Gabriela	Andrejková, CSc.			•		
Date of last mo	dification: 03.02	2.2014					
Approved: prot	f. RNDr. Viliam	Geffert, DrSc.					

University: P. J.	Šafárik Univer	sity in Košice					
Faculty: Faculty of Science							
Course ID: ÚIN ARP1/05	F/ Course r	Course name: Computer architecture					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present							
Number of cred	lits: 4						
Recommended	semester/trim	ester of the cours	se: 2., 4.				
Course level: I.,	II.						
Prerequisities:	,						
Conditions for Oral examinatio	n, written tests	tion:					
Learning outco To provide the s	mes: tudents with a	knowledge of bas	ic principles of c	omputer architect	ure.		
Brief outline of the course: Milestones in computer organization, fundamental limitations. The representation of numbers and the implementation of floating point arithmetic. Combinatorial and sequential circuits, memory organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycle. The microarchitecture level, microinstructions and microinstruction control. The instruction set architecture level, data types, addressing modes, instruction types. Instruction execution, pipelining, cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operating system kernel, device-independent software.							
Recommended literature: A. S. Tanenbaum: Structured Computer Organization, 4.ed., Prentice-Hall, 1999 W. Stallings: Computer Organization and Architecture, 4.ed., Prentice-Hall, 1996 J. Blieberger, G. H. Schildt, U. Schmid, S. Stoeckler: Informatik, Springer-Verlag, 1990							
Course languag	e:						
Notes:							
Course assessment Total number of assessed students: 49							
Α	В	C	D	E	FX		
16.33	16.33 20.41 20.41 22.45 20.41 0.0						
Provides: doc. F	RNDr. Jozef Jir	ásek, PhD.					
Date of last mod	Date of last modification: 03.02.2014						
Approved: prof	Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J.	Šafárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN EIP/01	F/ Course na	Course name: Computer systems and networks						
Course type, sco Course type: Recommended Per week: Per Course method	ope and the met course-load (h study period: l: present	thod: ours):						
Number of cred	its: 0							
Recommended s	semester/trimes	ster of the cours	e:					
Course level: II.								
Prerequisities: (ÚINF/ARP1/05	and (ÚINF/PDS1	/03 or ÚINF/KP	11/01 or ÚINF/C	PS1/11)			
Conditions for c	ourse completi	on:						
Learning outcom	mes:							
Brief outline of	the course:							
Recommended I	literature:							
Course languag	e:							
Notes:								
Course assessme Total number of	ent assessed studen	ts: 13						
A	В	С	D	Е	FX			
15.38	15.38 30.77 30.77 23.08 0.0 0.0							
Provides:					1			
Date of last mod	lification: 03.02	2.2014						
Approved: prof.	RNDr. Viliam (Geffert, DrSc.						

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty of Science							
Course ID: ÚIN KRP1/06	NF/ Course name: Cryptographic protocols						
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present							
Number of cred	its: 4						
Recommended s	semester/trimes	ster of the course	e: 3.				
Course level: II.							
Prerequisities:							
Conditions for c written test	course completi	on:					
Learning outcome to acquire know	mes: ledge on design	and verifying of	cryptographic p	rotocols			
Brief outline of Authentication a key agreement p	the course: and key establish rotocols, confer	ment using share	d and public ker	y cryptography, edge protocols.			
Recommended I 1. Colin Boyd, A 2003 2. Douglas R. St 2006 3. Bruce Schneid John Wiley & So 4. Peter Ryan, St 2001	 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 languag	e:						
Notes:	Notes:						
Course assessment Total number of assessed students: 39							
A	B C D E FX						
33.33 12.82 7.69 15.38 30.77 0.0							
Provides: doc. R	Provides: doc. RNDr. Jozef Jirásek, PhD.						
Date of last modification: 03.02.2014							
Approved: prof.	Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN ODPA/01	NF/ Course name: Defence of diploma thesis						
Course type, sco Course type: Recommended Per week: Per Course methoo	ope and the met l course-load (h study period: d: present	thod: ours):					
Number of cred	lits: 0						
Recommended	semester/trimes	ster of the cours	e:				
Course level: II.							
Prerequisities:	ÚINF/DPITc/06						
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	ent assessed studen	ts: 84					
А	В	С	D	Е	FX		
28.57	22.62 17.86 20.24 9.52 1.19						
Provides:			1		1		
Date of last mod	dification: 03.02	2.2014		_			
Approved: prof.	. RNDr. Viliam (Geffert, DrSc.					

University: P. J.	. Šafárik Univers	sity in Košice					
Faculty: Faculty	y of Science			_			
Course ID: ÚIN TDB1/06	NF/ Course name: Development of web-oriented database applications						
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 crea	lits: 2						
Recommended	semester/trime	ster of the cours	e: 2.				
Course level: II							
Prerequisities:							
Conditions for Work on a proje Presentation of	course complet ect. a project.	ion:					
Learning outco Students will k applications.	mes: now the latest b	asic ideas and te	chniques for dev	veloping databas	se oriented web		
Brief outline of I. Data comport Entity data mod and EntityColle II. Web comport architecture: mod	the course: nents. ADO.NET els: Code-First, ction. nents. HTML 5 odel, view, contr	⁷ architecture: .N Model-First, Data , JavaScript, jQu oller - actions, na	ET data provide base-First - DbC hery. ASP.NET, ' vigation and state	r, DataReader a ontext, DbMode Web Forms, We e management. V	nd the DataSet. lBuilder, DbSet b Pages. MVC Veb API.		
Recommended literature: [1] A. Freeman, Pro ASP.NET MVC 4, Apress, 2012 [2] D. Esposito, Programming Microsoft ASP.NET MVC, 3rd Edition, Microsoft Press, 2014 [3] J.P.Mueller, Microsoft ADO.NET Entity Framework Step by Step, Microsoft Press, 2013 [4] http://www.asp.net/myc/myc5							
Course languag	ge:						
Notes:							
Course assessment Total number of assessed students: 83							
А	В	C	D	Е	FX		
74.7 4.82 12.05 1.2 4.82 2.41							
Provides: doc. I	RNDr. Csaba Tö	rök, CSc., doc. R	NDr. Gabriel Ser	nanišin, PhD.			
Date of last modification: 03.02.2014							
Approved: prof	Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN DPO/14	F/ Course name: Diploma Thesis and its Defence						
Course type, sco Course type: Recommended Per week: Per Course method	ope and the met course-load (h study period: l: present	hod: ours):					
Number of cred	its: 20						
Recommended s	semester/trimes	ter of the cours	2:				
Course level: II.							
Prerequisities:							
Conditions for c	course completi	on:					
Learning outcom	mes:						
Brief outline of	the course:						
Recommended I	literature:						
Course language	e:						
Notes:							
Course assessme Total number of	ent assessed studen	ts: 9					
A	В	С	D	Е	FX		
33.33	33.33 33.33 22.22 11.11 0.0 0.0						
Provides:					<u></u>		
Date of last mod	lification: 17.02	.2014					
Approved: prof.	RNDr. Viliam (Geffert, DrSc.					

University: P. J. Š	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚINF DPITa/14	JINF/ Course name: Diploma thesis in informatics				
Course type, scop Course type: Pra Recommended Per week: 1 Per Course method:	pe and the met actice course-load (h study period: present	t hod: ours): 14			
Number of credit	ts: 1				
Recommended so	emester/trimes	ster of the cours	e: 2.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom	nes:				
Brief outline of t	he course:				
Recommended li	terature:				
Course language	•				
Notes:	· · · · · ·				
Course assessme Total number of a	nt assessed studen	ts: 17			
A	В	С	D	E	FX
58.82	29.41	5.88	0.0	5.88	0.0
Provides: prof. R	NDr. Viliam G	effert, DrSc.	I		
Date of last modi	ification: 19.09	0.2014			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN DPITb/06	F/ Course name: Diploma thesis in informatics				
Course type, sco Course type: P Recommended Per week: 6 Pe Course method	ope and the met ractice course-load (h r study period: l: present	thod: ours): 84			
Number of cred	its: 6				
Recommended s	semester/trimes	ster of the cours	e: 3.		
Course level: II.					
Prerequisities: (ÚINF/DPITa/06	or ÚINF/DPITa/	14		
Conditions for c	ourse completi	on:			
Learning outcom	mes:				
Brief outline of	the course:				
Recommended I	literature:				
Course language	e:				
Notes:					
Course assessme Total number of	ent assessed studen	ts: 19			
A	В	С	D	Е	FX
78.95	5.26	5.26	5.26	5.26	0.0
Provides: prof. I	RNDr. Viliam G	effert, DrSc.		<u> </u>	
Date of last mod	lification: 03.02	2.2014			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ DPITc/14	Course name: Diploma thesis in informatics				
Course type, scope Course type: Lect Recommended co Per week: Per stu Course method: p	and the met ure urse-load (h udy period: 4 present	t hod: ours): 4 _S			
Number of credits:	: 4				
Recommended sen	nester/trimes	ster of the cours	e: 4.		
Course level: II.					
Prerequisities: ÚIN	NF/DPITb/06				
Conditions for cou	rse completi	on:			
Learning outcome	5:				
Brief outline of the	course:				
Recommended lite	rature:				
Course language:					
Notes:					
Course assessment Total number of ass	sessed studen	ts: 9			
Α	В	С	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: prof. RN	Dr. Viliam G	effert, DrSc.	1	1	1
Date of last modifi	cation: 19.09	0.2014		-	
Approved: prof. RI	NDr. Viliam (Geffert, DrSc.			

University: P. J.	. Šafárik Univers	ity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚIN VEP1/09	F/ Course name: Formal methods in a verification				
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present					
Number of cred	lits: 5				
Recommended	semester/trimes	ster of the cours	e: 2.		
Course level: II	•				
Prerequisities:					
Conditions for	course completi	on:			
Learning outco	mes:				
Brief outline of	the course:				
Recommended	literature:				
Course languag	ge:				
Notes:					
Course assessment Total number of assessed students: 18					
A	В	С	D	Е	FX
27.78	22.22 22.22 16.67 0.0 11.11				
Provides: doc. RNDr. Gabriela Andrejková, CSc., Mgr. Alexander Szabari, PhD.					
Date of last modification: 03.02.2014					
Approved: prof	. RNDr. Viliam (Geffert, DrSc.		-	

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty	Faculty: Faculty of Science					
Course ID: ÚIN EIS/04	F/ Course na	Course name: Formal models of computational processes				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of cred	its: 0					
Recommended s	semester/trimes	ter of the cours	e:			
Course level: II.						
Prerequisities: U (ÚINF/NEU1/03	ÚINF/VYZ1/04 or ÚINF/KPI1/	and (ÚINF/SMI1 01 or ÚINF/PDS	1/08 or ÚINF/TI 1/03 or ÚINF/K	K1/13) and ÚINI KV1/06)	F/APA1/09 and	
Conditions for c	course completi	on:				
Learning outcom	mes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	e:					
Notes:						
Course assessment Total number of assessed students: 83						
A	В	С	D	Е	FX	
15.66	15.66	18.07	16.87	31.33	2.41	
Provides:						
Date of last modification: 03.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J.	. Šafárik Univers	sity in Košice				
Faculty: Faculty	Faculty: Faculty of Science					
Course ID: ÚIN EIN/04	VF/ Course na	Course name: Foundations of artificial intelligence				
Course type, sc Course type: Recommended Per week: Per Course metho	ope and the me d course-load (h r study period: d: present	thod: ours):				
Number of crea	lits: 0					
Recommended	semester/trime	ster of the cours	e:			
Course level: II	·					
Prerequisities:	ÚINF/VYU1/03	and (ÚINF/NEU	1/03 or ÚFV/N	OT1b/03)		
Conditions for	course complet	ion:				
Learning outco	mes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	ge:					
Notes:						
Course assessm Total number of	ent f assessed studer	nts: 18				
А	В	C	D	E	FX	
22.22	16.67	27.78	0.0	33.33	0.0	
Provides:						
Date of last modification: 03.02.2014						
Approved: prof	RNDr. Viliam	Geffert, DrSc.				

University: P J	Šafárik Univers	sity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚIN ZNA1/06	NF/ Course name: Foundations of knowledge systems					
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present					
Number of cred	its: 4					
Recommended	semester/trimes	ster of the cours	e: 1.			
Course level: II.						
Prerequisities:				-		
Conditions for a	course completi	on:				
Learning outco The	mes:					
Brief outline of S	the course:					
Recommended literature: Hedman S.: A first course in logic: An introduction to model theory, proof theory, computability and complexity. Oxford university press, 2006 Nienhuys-Cheng Sh.H., Wolf R.: Foundations of Inductive Logic Programming, Springer-Verlag, 1997 Nilsson U., Maluszynski J.: Logic, Programming and Prolog, John Wiley & Sons Ltd. 1995 Bělohlávek R.: Fuzzy Relational Systems: Foundations and Principles. Kluwer, Academic/ Plenum Publishers, New York, 2002						
Course longuage		icept Analysis. w		indations, Spring	el Bellin, 1999	
Vourse language:						
Course assessment Total number of assessed students: 60						
A	В	С	D	Е	FX	
15.0	15.0	20.0	21.67	21.67	6.67	
Provides: RNDr. Ondrej Krídlo, PhD.						
Date of last modification: 12.02.2014						
Approved: prof.	RNDr. Viliam (Geffert, DrSc.				

University: P. J.	University: P. J. Šafárik University in Košice						
Faculty: Faculty	y of S	cience					
Course ID: ÚIN ZNA1/14	JF/	F/ Course name: Foundations of knowledge systems					
Course type, sc Course type: I Recommended Per week: 2 / 1 Course method	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present						
Number of crea	lits: 4						
Recommended	seme	ster/trimes	ter of the course	e: 1.			
Course level: II	•						
Prerequisities:							
Conditions for	cours	e completi	on:				
Learning outco The goal is to te in database and	mes: ach st know	udents som ledge syste	e advanced appli ms.	cations of logic i	nto computer sci	ence, especially	
Brief outline of Relations of fo induction in class	the c rmal ssical	ourse: models DE , fuzzy and	BMS, SQL, and probabilistic log	logic programm ic.	ing. Resolution,	deduction and	
Recommended literature: Shawn Hedman. A first course in logic: An introduction to model theory, proof theory, computability and complexity. Oxford university press, ISBN 0–19–852980–5, 2006. Shan-Hwei Nienhuys-Cheng, Ronald de Wolf. Foundations of Inductive Logic Programming. Springer-Verlag, ISBN 3-540-62927-0, 1997. Kristian Kersting. An Inductive Logic Programming Approach to Statistical Relational Learning, IOS Press, ISBN 1-58603-674-2, 2006.							
Course languag	ge:						
Notes:							
Course assessment Total number of assessed students: 60							
А		В	С	D	Е	FX	
15.0		15.0	20.0	21.67	21.67	6.67	
Provides: RND	Provides: RNDr. Ondrej Krídlo, PhD.						
Date of last mo	difica	tion: 24.07	.2014		_		
Approved: prof	RNI	Dr. Viliam (Geffert, DrSc.				

University: P. J.	. Šafárik Univers	ity in Košice				
Faculty: Faculty	y of Science					
Course ID: KFa DF2p/03	aDF/ Course n a	DF/ Course name: History of Philosophy 2 (General Introduction)				
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present						
Number of crea	lits: 4					
Recommended	semester/trimes	ster of the cours	e: 2.			
Course level: I.	, II.					
Prerequisities:						
Conditions for	course completi	on:				
Learning outco	mes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	ge:					
Notes:						
Course assessment Total number of assessed students: 729						
А	В	С	D	Е	FX	
60.49	13.85	12.76	8.78	3.43	0.69	
Provides: doc. PhDr. Pavol Tholt, PhD., mim.prof., Doc. PhDr. Peter Nezník, CSc., PhDr. Katarína Mayerová, PhD., Mgr. Róbert Stojka, PhD.						
Date of last modification: 26.01.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafán	rik Universi	ty in Košice			
Faculty: Faculty of Se	cience				
Course ID: R UPJŠ/ Course name: IB10 - Medzinárodný certifikát ECo-C IB10/14					
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 1	6				
Recommended semes	ster/trimes	ter of the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completio	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of assessed students: 0					
abs		n	neabs		
0.0 0.0 0.0					
Provides:					
Date of last modification: 11.08.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.					
University: P. J. Šafán	ik Universi	ty in Košice			
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Faculty: Faculty of Se	cience				
Course ID: R UPJŠ/ IB11/14	Course ID: R UPJŠ/ Course name: IB11 - Medzinárodný certifikát ECDL B11/14				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the met rse-load (ho y period: sent	hod: ours):			
Number of credits: 1	4				
Recommended semes	ster/trimes	ter of the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completio	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	sed student	s: 0			
abs		n	neabs		
0.0 0.0 0.0					
Provides:					
Date of last modification: 11.08.2014					
Approved: prof. RNI	Dr. Viliam G	Geffert, DrSc.			

University: P. J. Šafán	rik University in	n Košice			
Faculty: Faculty of So	cience				
Course ID: R UPJŠ/ IB12/14	Course ID: R UPJŠ/ Course name: IB12 - Používanie, administrácia a vývoj v systéme SAP B12/14				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method rse-load (hours y period: sent	:):			
Number of credits: 5	4				
Recommended seme	ster/trimester (of the course:			
Course level: I., I.II.,	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	ssed students: 0				
abs		n	neabs		
0.0	0.0 0.0 0.0				
Provides:	I		t		
Date of last modifica	tion: 11.08.201	4			
Approved: prof. RNI	Dr. Viliam Geffe	ert, DrSc.			

University: P. J. Šafá	rik University	in Košice			
Faculty: Faculty of S	cience				
Course ID: R UPJŠ/ IB1/14	Course ID: R UPJŠ/ Course name: IB1 - Etika v biomedicínskych vedách pre zdravotnícku prax B1/14				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the metho rse-load (hou y period: esent	od: rs):			
Number of credits: 1	6	.			
Recommended seme	ster/trimeste	r of the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completion	:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students:	0			
abs		n	neabs		
0.0	0.0 0.0 0.0				
Provides:	I				
Date of last modifica	tion: 11.08.20	014			
Approved: prof. RNI	Dr. Viliam Get	ffert, DrSc.			
-					

University: P. J. Šafán	rik Univers	ity in Košice				
Faculty: Faculty of S	cience					
Course ID: R UPJŠ/ IB2/14	Course ID: R UPJŠ/ Course name: IB2 - Právne minimum – súkromnoprávne aspekty B2/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the met se-load (ho y period: sent	hod: ours):				
Number of credits: 1	6					
Recommended semes	ster/trimes	ter of the course:				
Course level: 1., 1.11.,	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: 0				
abs		n	neabs			
0.0	0.0 0.0 0.0					
Provides:		I				
Date of last modifica	tion: 11.08	.2014				
Approved: prof. RNI	Dr. Viliam (Geffert, DrSc.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: R UPJŠ/ IB3/14	Course ID: R UPJŠ/ Course name: IB3 - Právne minimum – verejnoprávne aspekty B3/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the meth rse-load (ho y period: sent	nod: urs):				
Number of credits: 1	6					
Recommended seme	ster/trimest	er of the course:				
Course level: I., I.II.,	II.					
Prerequisities:						
Conditions for cours	e completio	n:				
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed students	s: 0				
abs		n	neabs			
0.0	0.0 0.0 0.0					
Provides:						
Date of last modification: 11.08.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafá	rik Univers	ity in Košice				
Faculty: Faculty of S	cience					
Course ID: R UPJŠ/ IB4/14	Course ID: R UPJŠ/ Course name: IB4 - Projektový manažment B4/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the met rse-load (he y period: esent	hod: ours):				
Number of credits: 2	20					
Recommended seme	ster/trimes	ter of the course:				
Course level: 1., 1.11.,	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: 0				
abs		n	neabs			
0.0 0.0 0.0						
Provides:		1				
Date of last modifica	tion: 11.08	.2014				
Approved: prof. RNI	Dr. Viliam C	Geffert, DrSc.				

University: P. J. Šafá	rik University in	Košice				
Faculty: Faculty of S	cience					
Course ID: R UPJŠ/ IB5/14	Course ID: R UPJŠ/ Course name: IB5 - Manažérska ekonomika B5/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: rse-load (hours) y period: esent	:				
Number of credits: 1	6					
Recommended seme	ster/trimester o	f the course:				
Course level: I., I.II.,	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	ssed students: 0					
abs		n	neabs			
0.0 0.0 0.0						
Provides:	L		1			
Date of last modifica	tion: 11.08.2014	Ļ				
Approved: prof. RNI	Dr. Viliam Geffer	t, DrSc.				

University: P. J. Šafá	rik Universit	ty in Košice				
Faculty: Faculty of S	cience					
Course ID: R UPJŠ/ IB6/14	Course ID: R UPJŠ/ Course name: IB6 - Riešenie konfliktných a krízových situácií v školskej praxi					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the meth rse-load (ho y period: esent	nod: urs):				
Number of credits: 1	6					
Recommended seme	ster/trimest	er of the course:				
Course level: I., I.II.,	II.					
Prerequisities:						
Conditions for cours	e completio	n:				
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	iture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed students	s: 0				
abs		n	neabs			
0.0	0.0 0.0 0.0					
Provides:	I					
Date of last modifica	tion: 11.08.	2014				
Approved: prof. RNI	Dr. Viliam G	effert, DrSc.				

University: P. J. Šafá	rik Univers	ity in Košice				
Faculty: Faculty of S	cience					
Course ID: R UPJŠ/ IB7/14	Course ID: R UPJŠ/ Course name: IB7 - Štatistika pre prax B7/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the met rse-load (he y period: esent	hod: ours):				
Number of credits: 1	6					
Recommended seme	ster/trimes	ter of the course:				
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: 0				
abs		n	neabs			
0.0	0.0 0.0 0.0					
Provides:						
Date of last modifica	tion: 11.08	.2014				
Approved: prof. RNI	Dr. Viliam C	Geffert, DrSc.				

University: P. J. Šafán	ik University in Košice				
Faculty: Faculty of So	zience				
Course ID: R UPJŠ/ IB8/14	Course ID: R UPJŠ/ Course name: IB8 - Environmentálne aspekty záťaže životného prostredia B8/14				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the method: se-load (hours): y period: sent				
Number of credits: 1	6				
Recommended semes	ster/trimester of the course:				
Course level: I., I.II.,	II				
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the co	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	ssed students: 0				
abs	n	neabs			
0.0	0.0 0.0 0.0				
Provides:					
Date of last modifica	tion: 11.08.2014				
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.				

University: P. J. Šafár	rik Universi	ty in Košice				
Faculty: Faculty of S	cience					
Course ID: R UPJŠ/ IB9/14	Course ID: R UPJŠ/ Course name: IB9 - Medzinárodný certifikát TOEFL B9/14					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	nd the met rse-load (ho y period: sent	hod: ours):				
Number of credits: 1	7					
Recommended seme	ster/trimes	ter of the course:				
Course level: I., I.II.,	II.					
Prerequisities:						
Conditions for cours	e completio	on:				
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed student	s: 0				
abs		n	neabs			
0.0 0.0 0.0						
Provides:						
Date of last modification: 11.08.2014						
Approved: prof. RNI	Dr. Viliam G	Geffert, DrSc.				

University: P. J.	Šafárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN ANO/07	ID: ÚINF/ Course name: Image analysis							
Course type, sc Course type: L Recommended Per week: 2 / 2 Course method	ope and the met Lecture / Practice l course-load (h 2 Per study period: present	thod: ours): od: 28 / 28						
Number of cred	lits: 4							
Recommended	semester/trimes	ster of the cours	e: 1., 3.					
Course level: I.,	, II							
Prerequisities:								
Conditions for o	course completi	on:						
Learning outco	mes:							
Brief outline of	the course:							
Recommended	literature:							
Course languag	ge:							
Notes:	,			-				
Course assessm Total number of	ent assessed studen	.ts: 5						
А	В	С	D	Е	FX			
20.0	20.0 0.0 40.0 0.0 40.0 0.0							
Provides: doc. Ing. Zoltán Tomori, CSc., Ing. Radoslav Gargalík								
Date of last mo	dification: 03.02	2.2014						
Approved: prof	. RNDr. Viliam (Geffert, DrSc.		-				

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
Course ID: ÚIN ESSI/14	NF/ Course n	Course name: Informatics				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present						
Number of crea	dits: 4					
Recommended	semester/trime	ster of the cours	e:			
Course level: II	•					
Prerequisities: or (ÚINF/AIS1/ KOA/10 or ÚIN	((ÚINF/KRP1/0 01 and (ÚINF/L (F/TSU1/12)) or	6 or ÚINF/PDS1/ AD1/06 or ÚINF (ÚINF/VYU1/03	/03 or ÚINF/AR /ZNA1/14)) or (and (ÚINF/VK)	P1/05) and ÚINF ÚINF/KKV1/06 N/12 or ÚINF/NI	7/OPS1/06) and (ÚMV/ EU1/03))	
Conditions for	course complet	ion:				
Learning outco	mes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	ge:					
Notes:						
Course assessm Total number of	Course assessment Total number of assessed students: 9					
А	В	C	D	E	FX	
33.33	44.44	11.11	11.11	0.0	0.0	
Provides:	Provides:					
Date of last modification: 19.02.2014						
Approved: prof	. RNDr. Viliam	Geffert, DrSc.				

University: P. J.	. Šafárik Univer	sity in Košice				
Faculty: Faculty	y of Science					
Course ID: ÚIN EIM/08	VF/ Course n	Course name: Informatics for medicine				
Course type, sc Course type: Recommended Per week: Per Course metho	ope and the me d course-load (f r study period: d: present	thod: nours):				
Number of crea	lits: 0					
Recommended	semester/trime	ster of the cours	e:			
Course level: II						
Prerequisities:	ÚINF/MIN2/08	and (ÚINF/ANO	/07 or ÚINF/SP	G1/05)		
Conditions for	course complet	ion:				
Learning outco	mes:					
Brief outline of	the course:					
Recommended	literature:					
Course languag	ge:					
Notes:						
Course assessm Total number of	ent f assessed studer	nts: 0				
А	В	C	D	E	FX	
0.0	0.0	0.0	0.0	0.0	0.0	
Provides:		1	1		l	
Date of last mo	dification: 03.0	2.2014				
Approved: prof	. RNDr. Viliam	Geffert, DrSc.				

University: P. J. Ša	ıfárik Univers	University: P. J. Šafárik University in Košice					
Faculty: Faculty of	Faculty: Faculty of Science						
Course ID: ÚINF/ MIN1/06	Course na	Course name: Informatics for medicine					
Course type, scope Course type: Prac Recommended co Per week: 2 Per s Course method: 1	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 ser	nester/trimes	ster of the course	e: 1.				
Course level: I., II.							
Prerequisities:							
Conditions for cou Oral and written ex	irse completi kam	on:					
Learning outcome To present an appl conditions for so-c	es: ication of con alled safety-re	nputer science in elevant domain.	medicine doma	in with emphasis	s on the specific		
Brief outline of the Software develops MS .NET, C#, C+ used software tools RationalRose, Req company mangement	e course: ment go mec +. Developme s: uisitePro, UIT ent according	licine domain (r ent based on so-c FA, Caliber, Clear to CMMI method	adiotherapy and called "V" deve rCase. Quality a dology.	d ultrasound). S lopment model. nd process mana	Syngo platform, An overview of gement and SW		
Recommended lite http://www.syngo./ http://www.siemen	Recommended literature: http://www.syngo.com http://www.siemens.com						
Course language:							
Notes:							
Course assessmen Total number of as	Course assessment Total number of assessed students: 68						
A	В	С	D	E	FX		
75.0	25.0	0.0	0.0	0.0	0.0		
Provides: doc. Ing.	Norbert Kop	čo, PhD.					
Date of last modifi	Date of last modification: 03.02.2014						
Approved: prof. R	NDr. Viliam (Geffert, DrSc.					

University: P. J. Šaf	ărik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ MIN2/08	Course name: Informatics for medicine				
Course type, scope Course type: Lectu Recommended cou Per week: 2 Per st Course method: p	and the met are urse-load (h udy period: resent	thod: ours): 28			
Number of credits:	3				
Recommended sem	ester/trimes	ster of the cours	e: 2.		
Course level: I., II.					
Prerequisities: ÚIN	F/MIN1/06				
Conditions for cou	rse completi	on:			
Learning outcomes	:				
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of ass	essed studen	ts: 20			
A	В	С	D	E	FX
80.0	10.0	0.0	0.0	10.0	0.0
Provides: doc. Ing.	Norbert Kop	čo, PhD.	l		
Date of last modific	ation: 03.02	2.2014			
Approved: prof. RN	Dr. Viliam (Geffert, DrSc.			

University: P. J	. Šafárik Univers	sity in Košice				
Faculty: Facult	y of Science					
Course ID: ÚII EIL/04	NF/ Course na	Course name: Information and knowledge systems				
Course type, so Course type: Recommende Per week: Pe Course metho	cope and the me d course-load (h r study period: od: present	thod: iours):				
Number of cre	dits: 0					
Recommended	semester/trime	ster of the cours	e:			
Course level: I	I					
Prerequisities:	ÚINF/LAD1/06	and (ÚINF/VYU	1/03 or ÚINF/A	IS1/01)		
Conditions for	course completi	ion:				
Learning outco	omes:					
Brief outline of	f the course:					
Recommended	literature:					
Course langua	ge:					
Notes:	,			-		
Course assessn Total number o	nent f assessed studer	nts: 30				
А	В	С	D	E	FX	
30.0	16.67	16.67	16.67	13.33	6.67	
Provides:	•			<u> </u>		
Date of last mo	dification: 03.02	2.2014				
Approved: pro	f. RNDr. Viliam	Geffert, DrSc.				

University: P. J. Š	University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science							
Course ID: ÚINF AIS1/01	Course na	Course name: Information systems architecture					
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 credit	ts: 4						
Recommended se	emester/trimes	ster of the cours	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for co Work on project. Written and oral of	ourse completi	on:					
Learning outcom To provide an ov introduce the fund	es: verview of the damental princi	modern method	ologies of infor al modelling of	mation system do information syste	evelopment. To ms.		
System, informati model of the arch life cycle based marking models. Taxonomies. Don	ion system, info itecture of an i on MDA. Moo Entity types. I nain events. Us	ormation pyramic information syste del, metamodel, Relationship type e cases. State tra	d. Conceptualisa em. Introduction modelling lang es. Cardinality nsition diagrams	ation of information to MDA, softwa uage. Model tran constraints. Integr s.	on systems. ISO re development sformation and rity constraints.		
 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 a	nt issessed studen	ts: 165					
Α	В	С	D	E	FX		
20.0	30.91	25.45	8.48	11.52	3.64		
Provides: doc. RN	NDr. Gabriel Se	emanišin, PhD.					
Date of last modi	fication: 03.02	2.2014					

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Šaf	árik University in Košice			
Faculty: Faculty of	Science			
Course ID: ÚINF/ UUI1/06	D: ÚINF/ Course name: Introduction to artificial intelligence			
Course type, scope Course type: Lecta Recommended cou Per week: 2 Per st Course method: p	and the method: are arse-load (hours): ady period: 28 resent			
Number of credits:	3			
Recommended sem	ester/trimester of the course: 2.			
Course level: II.				
Prerequisities:				
Conditions for coun home work and write final exam	rse completion: tten tests			
Learning outcomes The goal of the cour a student it is possib	: rse is to achieve basic information about artificial intelligence techniques. For ole to study more deeply from literature, if needed.			
Brief outline of the Goal of artificial int representation in AI informed versus infi iterative enhancement constraint logic pro- described objects real and describtion, of knowledge systems information), geneti	course: elligence, natural intelligence, edges of agent machine intelligence, knowledge (semantic networks, frames), reasoning. Problem solving in status space - non- ormed deep and wide search, A*, solving of problems described as the game, ent algorithms, problem solving by decomposition. Planning and scheduling, ogramming, machine learning, computer vision - image recognition (flag cognition, structural scene analysis), image preprocessing, image representation bject recognition. Natural language processing, artificial neural networks, (structure, charakteristcs, direct and backward reasoning, working with vague c algorithms, distributed artificial intelligence and multi-agent systems.			
Recommended liter Russell S.J., Norvig 2002, ISBN: 013790	'ature: P: Artificial Intelligence: A Modern Approach (2nd Edition), Prentice Hall, 03952			

Negnevitsky Michael: Artificial Intelligence: A Guide to Intelligent Systems (2nd Edition), Addison Wesley, 2004, ISBN: 0321204662

Luger George: Artificial Intelligence: Structures and Strategies for Complex Problem Solving (5th Edition), Addison Wesley, 2004, ISBN: 0321263189

Course language:

Notes:

Course assessment Total number of assessed students: 76					
А	В	С	D	Е	FX
63.16	17.11	13.16	3.95	2.63	0.0
Provides: doc. Ing. Štefánia Gallová, CSc.					
Date of last modification: 03.02.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: ÚINF/ ZLSP/14	Course name: Linux fund	Course name: Linux fundamentals for SAP				
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present						
Number of credits: 4						
Recommended seme	ster/trimester of the cours	e: 1., 3.				
Course level: I., II., N	1					
Prerequisities: ÚINF	/ZTSP/14 or ÚINF/SAP1a/	06				
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c Introduction to Linux advanced commands;	ourse: :: commands, permissions & ; basics of networking & scr	c processes, work with the files, advanced Linux: ipting, SAP architecture on OS level.				
Recommended litera	iture:					
Course language:						
Notes:						
Course assessment Total number of asses	Course assessment Total number of assessed students: 12					
	abs	n				
	100.0 0.0					
Provides: RNDr. Štefan Pero						
Date of last modification: 17.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafárik University in Košice						
Faculty: Faculty of Science						
Course ID: ÚINF/ LAD1/06	Course na	Course name: Logical aspects of databases				
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present						
Number of credits:	4					
Recommended sem	ester/trimes	ster of the cours	e: 2.			
Course level: II.						
Prerequisities:						
Conditions for cou	rse completi	on:				
Learning outcomes To understand and logic programming	to be able to	o formalize relati	onships between	i databases, first	order logic and	
Brief outline of the Relationships betwe	course: een databases	s, logic and logic	programming.			
Recommended liter Serge Abiteboul, R ISBN 0-201-53771	Recommended literature: Serge Abiteboul, Richard Hull, Victor Vianu: Foundations of Databases. Addison-Wesley 1995, ISBN 0-201-53771-0					
Course language:						
Notes:						
Course assessment Total number of assessed students: 58						
A	В	С	D	Е	FX	
32.76	17.24	22.41	13.79	12.07	1.72	
Provides: doc. RNDr. Stanislav Krajči, PhD.						
Date of last modification: 03.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science							
Course ID: ÚINI TSU1/12	F/ Course n	Course name: Machine learning methods					
Course type, sco Course type: Le Recommended Per week: 2 / 2 Course method	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present						
Number of credi	ts: 5						
Recommended s	emester/trime	ster of the course	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for c Fnal project and	ourse complet exam	ion:					
Learning outcon Detailed overview	nes: w on different t	echniques of mac	hine learning a	nd data mining.			
Brief outline of t Supervised learnin vector machines learning: clusteri	he course: ng: k-NN, linea , decision tree ng, frequent ite	ar classification ar es, naive bates cl emset mining and	nd regression, ke lassifier and ba association rule	ernels, logistic reg ayesian networks; mining.	ression, support ; Unsupervised		
Recommended li Jiawei Han, Mich Kaufmann, ISBN Pang-Ning Tan, I ISBN 978-03213 Ethem Alpazdin. 2004.	terature: neline Kamber, 978-0123814 Michael Steinb 21367, 2005. Introduction to	Jian Pei. Data Mi 791, 2011. ach, Vipin Kumar Machine Learnin	ning: Concepts Introduction to ng, The MIT Pr	and Techniques. 1 Data Mining. Ac ess, ISBN 978-0-2	Morgan Idison-Wesley, 262-01211-9,		
Course language	:						
Notes:							
Course assessme Total number of a	nt assessed studer	nts: 5					
A	В	C	D	E	FX		
20.0	0.0	60.0	0.0	20.0	0.0		
Provides: RNDr.	Tomáš Horvát	h, PhD.		<u> </u>			
Date of last mod	ification: 03.02	2.2014					
Approved: prof.	RNDr. Viliam	Geffert, DrSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚFV/ KDO1/99Course name: Methods of Clinical Dosimetry					
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 3					
Recommended semester/trimester of the course: 2.					
Course level: II.					
Prerequisities:					
Conditions for course completion:					
Learning outcomes: Basic methods of clinical dosimetry.					
Brief outline of the course: The basic concepts of clinical dosimetry and its radiotherapy applications. The sources of ionising radiation. The dose measurement methods. New trends in clinical dosimetry. PC supported topometry and dosimetry of beams "in phantoms" and "in vivo" dosimetry. 3D-figures (based on tomograph slices) on simulation methods and it's using on radiotherapy.					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 2					
A B C D E FX					
100.0 0.0 0.0 0.0 0.0 0.0					
Provides: doc. RNDr. Pavel Matula, CSc.					
Date of last modification: 11.02.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.					

University: P. J	University: P. J. Šafárik University in Košice						
Faculty: Facult	y of Science						
Course ID: ÚI MPJ1/08	NF/ Course name: Modern programming languages						
Course type, so Course type: 1 Recommended Per week: 1 / 2 Course metho	ope and the me Lecture / Practic d course-load (H 2 Per study per d: present	thod: e nours): iod: 14 / 28					
Number of cree	dits: 4						
Recommended	semester/trime	ster of the cours	e: 3.				
Course level: I.	, II.						
Prerequisities:							
Conditions for	course complet	ion:					
Learning outco Mastering the b	mes: asics of standard	l and experimenta	ll programming	models and techn	iques.		
Attribute programming – Attribute progra and declarative	operator overlo amming. Paralle programming –	ading, indexer. E and multithread lambda expression	amming – par vent programm programming – ns, LINQ. Grap	rametric polymor ing (event handlin processes, threadp phics primitives.	phism. Vector ng) – delegates. ool. Functional		
- Andrew Troel - Joseph Albaha O'REILLY - Daniel Solis, 1	sen, Pro C# 5.0 ari, Ben Albahar	and the .NET 4.5 i, C# 5.0 in a Nut 12, 2012, APRES	Platform, 2012, shell: The Defin	APRESS hitive Reference, 2	012,		
Course languag	ge:						
Notes:							
Course assessment Total number of assessed students: 88							
А	В	C	D	E	FX		
17.05	18.18	27.27	22.73	14.77	0.0		
Provides: doc.]	RNDr. Csaba Tö	rök, CSc.					
Date of last mo	dification: 03.0	2.2014					
Approved: prot	. RNDr. Viliam	Geffert, DrSc.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚTVŠ/ NJ//13	Course ID: ÚTVŠ/ Course name: Naval Yachting NJ//13						
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 36 Per study period: 504 Course method: present							
Number of credits: 2							
Recommended seme	ster/trimester of the cours	e:					
Course level: I., II.							
Prerequisities:							
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c	ourse:						
Recommended litera	iture:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 2							
abs n							
100.0 0.0							
Provides: doc. Mgr. Rastislav Feč, PhD.							
Date of last modification: 15.01.2014							
Approved: prof. RNDr. Viliam Geffert, DrSc.							

University: P. J.	Šafárik Univer	sity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN NEU1/03	e ID: ÚINF/ Course name: Neural networks						
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	ope and the me ecture / Practic course-load (I Per study per i: present	thod: e nours): iod: 28 / 14					
Number of cred	its: 5						
Recommended	semester/trime	ster of the cours	e: 1.				
Course level: II.							
Prerequisities:							
Conditions for a	course complet	ion:					
Learning outco To understand a	mes: nd to know usir	ng basic paradigm	s of neural netw	orks.			
Feed-forward an networks, a capa and solving opti computational n	nd recurrent neu bility of neural n mization proble nodels. Theoreti	aral networks, bac networks to be an ems. Kohonen neu cal problems of n	ck propagation universal approx ural networks. N eural networks.	algorithm to adap ximator. Hopfield Neural networks ir	tation of neural neural networks a connections to		
Recommended J. Hertz, A.Krog Wesley, 1991. V. Kvasnička a I J. Šíma, R. Neru	literature: gh, R.G. Palmer col.: Úvod do te ida: Teoretické d	: Introduction to t córie neurónových otázky neurónový	he theory of new n sietí, IRIS, Bra rch sítí. Matfyzp	ural computation, atislava, 1997. press,MFF UK, Pr	Addison aha, 1996.		
Course languag	e:						
Notes:							
Course assessm Total number of	ent `assessed studer	nts: 172					
А	В	C	D	Е	FX		
12.79	14.53	22.67	23.84	20.93	5.23		
Provides: doc. F	NDr. Gabriela	Andrejková, CSc.		•			
Date of last mod	lification: 03.0	2.2014					
Approved: prof.	RNDr. Viliam	Geffert, DrSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Science				
Course ID: ÚFV/ NOT1a/03Course name: Nontraditional Optimization Techniques I					
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: 5					
Recommended semester/trimester of the course: 1.					

Course level: I., II.

Prerequisities:

Conditions for course completion:

Monitoring progress in solving applied projects. examination (50%), quality of the project (50%) examination

Learning outcomes:

To familiarize students with biologically and physically inspired optimization, simulation and prediction techniques. To expand students' creativity and programming skills by applying heuristic techniques in solving applied problems.

Brief outline of the course:

Fundamentals of optimization theory. Basic optimization problems. Basic types of objective functions. Classification of optimization techniques. Gradient-based optimization techniques. Evolutionary algorithms. Genetic algorithms. Genetic algorithms as Markov processes. Statistical Mechanics Approximations of Genetic Algorithms. Monte Carlo simulation and simulated annealing. Swarm optimization. Cellular Automata and their applications in simulations of complex systems. Fractals. Agent-based models. Evolutionary games. Evolution of cooperation. Fundamentals of Neural Networks. Application of singular value decomposition to solve least squares problems.

Recommended literature:

Hartmann, A. K., Rieger, H., Optimization Algorithms in Physics, Wiley, 2002
Reeves, C. R., Rowe, J. E., Genetic Algorithms: Principles and perspectives, Kluwer, 2003
Mitchell, M., Complexity. A Guided Tour, Oxford University Press, 2009
Solé, R. V., Phase Transitions, Princeton University Press, 2011
Ilachinski, A., Cellular Automata. A Discrete universe, World Scientific, 2002
Haykin, S., Neural Networks. A Comprehensive Foundation, Prentice-Hall, 1999

Course language:

Notes:

Course assessment Total number of assessed students: 55							
A B C D E FX							
69.09	69.09 16.36 7.27 1.82 5.45 0.0						
Provides: RNDr. Branislav Brutovský, CSc.							
Date of last modification: 10.02.2014							
Approved: prof. RNDr. Viliam Geffert, DrSc.							

University: P. J. Šafárik University in Košice								
Faculty: Faculty	Faculty: Faculty of Science							
Course ID: ÚFV/ NOT1b/03): ÚFV/ Course name: Nontraditional Optimization Techniques II							
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present								
Number of credi	ts: 5							
Recommended so	emester/trimes	ster of the course	e: 2.					
Course level: I., I	Ι.							
Prerequisities:								
Conditions for co Presentation of th	ourse completi ne project in wr	on: itten form. Oral e	xam and discus	sion of the presen	ted project.			
Learning outcom By using example interpretation of e	es: the bio complex system	logy to learn appl ns. Introduction to	ications of opti o new paradigm	mization techniqu is in the area of sy	es on study and stems biology.			
Brief outline of the Complex system optimization tech simulated anneal dynamics, proter bioinformatics.	he course: is, emergent l hniques on co ing, taboo searco in folding. Po	behavior. Evolut omplex systems. ch/ on selected p opulation dynam	ionary theory Application o roblems of bior nics, metabolic	and memetics. of methods /gene nolecular simulat networks and	Application of etic algorithms, ions. Molecular complexity in			
Recommended li The actual scient	terature: fic papers.							
Course language	:							
Notes:								
Course assessment Total number of assessed students: 29								
A	В	С	D	E	FX			
86.21	86.21 6.9 3.45 3.45 0.0 0.0							
Provides: doc. RNDr. Jozef Uličný, CSc.								
Date of last modi	fication: 10.02	2.2014						
Approved: prof.	RNDr. Viliam (Geffert, DrSc.						

University: P. J. Šafá	University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	cience						
Course ID: ÚINF/ ORSP/14	Course ID: ÚINF/ Course name: Oracle database administration DRSP/14						
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	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						
Recommended seme		P.					
Course level: I., II., N							
Prerequisities: ÚINF	/ASSP/14 or ÚINF/SAP1b/	06					
Conditions for cours	e completion:						
Learning outcomes:							
Brief outline of the c Database Overview administration tools, Spaces", Performing and Recovery.	Brief outline of the course: Database Overview: database architecture, connecting to the database, using database administration tools, administrating Oracle instances. Space management: administrating "Table Spaces", Performing reorganization of tables, housekeeping and troubleshooting. Backup, Restore and Recovery						
Recommended litera	ture:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 11							
abs n							
90.91 9.09							
Provides: RNDr. Štefan Pero							
Date of last modification: 17.02.2014							
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.						

University: P. J. Šafárik University in Košice								
Faculty: Faculty	Faculty: Faculty of Science							
Course ID: ÚINF PDB1/10	IF/ Course name: Organization and data processing							
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 credit	ts: 4							
Recommended se	emester/trimes	ter of the course	e: 3.					
Course level: II.								
Prerequisities:								
Conditions for co final exam	ourse completio	on:						
Learning outcom To understand the when solving opti	es: e principles of mization proble	database manage ems over big data	ement systems. and managing	To be able to use parallel and distrib	the knowledge buted databases.			
Data representati Hash-based index query optimizatio recovery manager	on, disk and f king methods, e on, transaction n ment, data redu	Tile organization external sorting, nanagement, para ction, object data	, tree-based in enumeration o allel and distrib bases, XML da	dexing methods l f relational operation uted databases, databases	B+tree, R-tree, ors, top-k join, tabase security,			
Recommended literature: R. RAMAKRISHNAN, J. GEHRKE: Database Management Systems, McGraw Hill Higher Education, 2003 A. SILBERSCHATZ, H. F. KORTH, S. SUDARSHAN: Database system concepts, McGraw Hill Higher Education, 2006								
Course language	.							
Notes:								
Course assessment Total number of a	nt issessed student	s: 46						
A	В	C	D	E	FX			
34.78	19.57	19.57	8.7	17.39	0.0			
Provides: RNDr.	Provides: RNDr. Peter Gurský, PhD.							
Date of last modi	Date of last modification: 03.02.2014							
Approved: prof. 1	RNDr. Viliam C	effert, DrSc.						

University: P. J. Šafárik University in Košice								
Faculty: Faculty of	Science							
Course ID: ÚINF/ PDB1/14	IF/ Course name: Organization and data processing							
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 sem	ester/trimes	ster of the course	e: 3.					
Course level: II.								
Prerequisities:								
Conditions for cour final exam	se completi	on:						
Learning outcomes To understand the p when solving optimi	: rinciples of zation probl	database manage ems over big data	ement systems. and managing	To be able to use parallel and distrib	the knowledge buted databases.			
Brief outline of the Data representation Hash-based indexin query optimization, recovery manageme	course: , disk and g methods, transaction f ent, data redu	file organization external sorting, management, para action, object data	, tree-based in enumeration o allel and distrib abases, XML da	dexing methods defined a devine methods defined for the definition of the definitio	B+tree, R-tree, ors, top-k join, tabase security,			
Recommended liter R. RAMAKRISHN Education, 2003 A. SILBERSCHATZ Higher Education, 2	r ature: AN, J. GEH Z, H. F. KOF 006	RKE: Database N RTH, S. SUDARS	/lanagement Sy SHAN: Databas	stems, McGraw H se system concepts	ill Higher , McGraw Hill			
Course language:								
Notes:								
Course assessment Total number of asse	essed studen	ts: 46						
Α	В	С	D	Е	FX			
34.78	19.57	19.57	8.7	17.39	0.0			
Provides: RNDr. Pe	ter Gurský, l	PhD.						
Date of last modific	ation: 23.07	2.2014						
Approved: prof. RN	Dr. Viliam (Geffert, DrSc.						

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚINF/ ZMSP/14	ourse ID: ÚINF/ MSP/14Course name: Overview of basic modules for consultant				
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pre	and the method: re / Practice rse-load (hours): study period: 28 / 14 esent				
Number of credits: 4	1				
Recommended seme	ster/trimester of the cours	e:			
Course level: I., II., N	N				
Prerequisities: ÚINF	ZKSP/14				
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c User training module Management).	eourse: es: HR (Human Resources),	FI (Financial) + CO (Controlling), MM (Material			
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 0				
	abs n				
0.0 0.0					
Provides: RNDr. Štet	fan Pero				
Date of last modifica	ntion: 17.02.2014				
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.				
l					

University: P. J.	University: P. J. Šafárik University in Košice							
Faculty: Faculty of Science								
Course ID: ÚIN PDS1/03	NF/ Course name: Parallel and distributed systems							
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present								
Number of cred	its: 4							
Recommended s	semester/trime	ster of the course	e: 2., 4.					
Course level: I.,	II							
Prerequisities:								
Conditions for c	ourse complet	ion:						
Learning outcome to introduce the	nes: fundamentals o	f parallel and dist	ributed program	nming				
Brief outline of current parallel development, da	the course: and distributed ta structures an	architectures, bas d programming m	tic issues in part tethodologies	allel and distribut	ted applications			
Recommended literature: Kenneth A. Berman and Jerome L. Paul: Algorithms: Sequential, Parallel, and Distributed, Thomson, 2005, ISBN 0-534-42057-5 Gregory R. Andrews: Foundations of Multithreaded, Parallel, and Distributed Programming, Addison-Wesley, 2000, ISBN 0-201-35752-6 Joseph JáJá: An Introduction to Parallel Algorithms, Addison-Wesley, 1992, ISBN 0-201-54856-9 Gerard Tel: Introduction to Distributed Algorithms, Cambridge University Press, 1994, ISBN 0-521-47069-2								
Course language	e:							
Notes:								
Course assessment Total number of assessed students: 97								
А	В	C	D	Е	FX			
23.71	20.62	15.46	20.62	11.34	8.25			
Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. František Galčík, PhD.								
Date of last mod	lification: 03.02	2.2014						
Approved: prof.	RNDr. Viliam	Geffert, DrSc.						
University: P. J.	. Šafárik Univers	ity in Košice						
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Faculty: Faculty	y of Science							
Course ID: ÚF LEK1/02	V/ Course na	Course name: Physical Principles of Medical Diagnostics and Therapy						
Course type, scope and the method: Course type: Lecture Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present								
Number of cred	lits: 2							
Recommended	semester/trimes	ster of the cours	e: 1., 3.					
Course level: II								
Prerequisities:								
Conditions for	course completi	on:						
Learning outco	mes:							
Brief outline of	the course:							
Recommended	literature:							
Course languag	ge:							
Notes:								
Course assessment Total number of assessed students: 27								
А	В	С	D	Е	FX			
85.19	85.19 11.11 3.7 0.0 0.0 0.0							
Provides: doc. RNDr. Karol Flachbart, DrSc.				1				
Date of last modification: 18.02.2014								
Approved: prof. RNDr. Viliam Geffert, DrSc.								

	· 1 TT · · · · · · · · · · · ·		
University: P. J. Safá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ PMSP/14	Course name: Project management in SAP ERP		
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 1 Per Course method: pre	and the method: re / Practice rse-load (hours): study period: 42 / 14 esent		
Number of credits: 5	5		
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II., N	Ň		
Prerequisities: ÚINF	Z/ZMSP/14		
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c Business process ove costs and revenues, re	course: rview in SAP, project structu ecord project activities.	re definition, project planning, resource planning,	
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 0		
	abs	n	
	0.0 0.0		
Provides: RNDr. Štet	fan Pero		
Date of last modifica	ntion: 17.02.2014		
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ PDSI1/04	ID: ÚINF/ Course name: Pro-seminar to diploma thesis in informatics			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present				
Number of credits: 2				
Recommended seme	ster/trimester of the course	e: 1.		
Course level: II.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes: To inform students about areas of informatics they are suitable to work in diploma theses. In the end of semester students have to prepared themes of diploma theses, goals and recommended study literature.				
Brief outline of the course:				
The seminar is oriented to problems prospective to preparations of Diploma theses.				
Recommended literature: MEŠKO, D., KATUŠČÁK, D. Akademická príručka. 1. vyd. Vydavateľstvo Osveta : Martin, 2004. 316 s. ISBN 80-8063-150-6 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Eco, U.: Jak napsat diplomovou práci, z taliančiny Come si fa una tesi di laures, Milano, 1977, Olomouc, Votobiax. Odborná a vedecká literatúra týkajúca sa diplomovej práce podľa odporúčania vedúceho diplomovei práce.				
Course language:				
Notes:				
Course assessment Total number of assessed students: 527				
	abs n			
	99.81	0.19		
Provides: doc. RNDr	Provides: doc. RNDr. Gabriela Andrejková, CSc., doc. RNDr. Jozef Jirásek, PhD.			
Date of last modification: 03.02.2014				
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.			

University: P. J.	University: P. J. Šafárik University in Košice					
Faculty: Faculty	of Science					
Course ID: KPPaPZ/PPZMg	Course name: Psychology and Health Psychology (Mgr. study)					
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28 Course method: present						
Number of cred	its: 4					
Recommended s	semester/trimes	ster of the cours	e: 2.			
Course level: I.,	II					
Prerequisities:						
Conditions for c	course completi	on:				
Learning outcom	mes:					
Brief outline of	the course:					
Recommended I	literature:					
Course language	e:					
Notes:						
Course assessment Total number of assessed students: 221						
A	В	С	D	Е	FX	
19.91	19.91 25.79 25.34 12.67 15.84 0.45					
Provides: PhDr. Anna Janovská, PhD., PhDr. Karolína Barinková, PhD., Mgr. Lucia Hricová						
Date of last modification: 04.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ PPU1a/04	ID: ÚINF/ Course name: Running practice		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e: 2.	
Course level: II.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 116			
	abs n		
99.14 0.86			
Provides: RNDr. JUDr. Pavol Sokol, PhD.			
Date of last modification: 03.02.2014			
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ PPU1b/04	rse ID: ÚINF/ Course name: Running practice		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 3 Per study period: 42 Course method: present			
Number of credits: 3			
Recommended seme	ster/trimester of the cours	e: 3.	
Course level: II.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 81			
	abs n		
100.0 0.0			
Provides: RNDr. JUDr. Pavol Sokol, PhD.			
Date of last modification: 03.02.2014			
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚINF/ APSP/14	Course name: SAP applica	ations in public administration/company	
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present			
Number of credits: 4			
Recommended seme	ster/trimester of the course	:	
Course level: I., II., N	1		
Prerequisities: ÚINF	/ZSSP/14		
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course: Description of the processes and procedures in the area of SAP budgeting, financing and asset management, SAP for human resources and payroll, SAP Administrative Office system, outputs - reporting in the SAP environment, output options, training outputs, output processing, and exporting data further processing in the environment of Excel, Word, inputs - import data in the SAP environment preparation of input data the procedure for importing data			
Recommended literature:			
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 27			
	abs n		
	100.0 0.0		
Provides: RNDr. Štefan Pero, RNDr. Edita Vojtová			
Date of last modification: 17.02.2014			
Approved: prof. RNI	Approved: prof. RNDr. Viliam Geffert, DrSc.		

University: P. J. Šafá:	rik University in Košice	· · · · · · · · · · · · · · · · · · ·	
Faculty: Faculty of S	cience		
Course ID: ÚINF/ ZKSP/14	Course name: SAP basics	for consultant	
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: Course level: L. IL. N			
Prerequisities: ÚINF	ZTSP/14 or ÚINF/SAP1a/	06	
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course: Organizational structure and processes (integration of SAP modules). Master records and their importance for the process. Customizing and transports, Standard reporting + Queries, Programming tools - migration, connection to external systems, BADIs, business functions, CMOD, SAP OSS, information retrieval.			
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:	Notes:		
Course assessment Total number of asses	Course assessment Total number of assessed students: 0		
	abs n		
	0.0	0.0	
Provides: RNDr. Štefan Pero			
Date of last modification: 17.02.2014			
Approved: prof. RNI	Approved: prof. RNDr. Viliam Geffert, DrSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ ZSSP/14	Course name: SAP basics for user		
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	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			
Course level: I. II.	ster/trimester of the cours	e: 1., 5.	
Dronoguisitiose L'UNE	$\frac{1}{\sqrt{7}TSD}/14 \approx I'IINIE/SAD1a/4}$	26	
Conditions for cours	a completion:		
Conditions for cours			
Difference of the second secon	Learning outcomes:		
Brief outline of the c Characteristics of m institutions, fundame the system. SAP user	Brief outline of the course: Characteristics of modern systems, effective solutions for the management and operation of institutions, fundamental processes in the institution of government, support for the process from the system. SAP user roles and profiles, case studies in terms of deployment of SAP company.		
Recommended litera	Recommended literature:		
Course language:	Course language:		
Notes:	Notes:		
Course assessment Total number of asses	Course assessment Total number of assessed students: 63		
	abs	n	
	100.0	0.0	
Provides: RNDr. Štefan Pero, RNDr. Edita Vojtová			
Date of last modification: 17.02.2014			
Approved: prof. RNI	Approved: prof. RNDr. Viliam Geffert, DrSc.		

University: P. J. Šafán	rik University in Košice		
Faculty: Faculty of So	cience		
Course ID: ÚINF/ PUSP/14	Course name: SAP for advanced users		
Course type, scope at Course type: Lectur Recommended cour Per week: 2 / 1 Per s Course method: pre	nd the method: e / Practice rse-load (hours): study period: 28 / 14 esent		
Number of credits: 4			
Recommended semes	ster/trimester of the cours	e:	
Course level: I., II., N	1		
Prerequisities: ÚINF	/APSP/14		
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the co One of the training r (Material Management	ourse: nodules: HR (Human Reso nt).	ources), FI (Financial) + CO (Controlling), MM	
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	Course assessment Total number of assessed students: 27		
	abs	n	
	100.0 0.0		
Provides: RNDr. Štef	an Pero, RNDr. Edita Vojto	vá	
Date of last modifica	tion: 17.02.2014		
Approved: prof. RNI	Approved: prof. RNDr. Viliam Geffert, DrSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚINF/ ZTSP/14	Course name: SAP overview		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14 Course method: present			
Number of credits: 4			
Recommended seme	ster/trimester of the cours	e: 1., 3.	
Course level: I., II., N	٧		
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the course: Defining mySAP Technology (Products, Innovations provided by SAP), Navigation (Logon, Screen Design, Calling Functions), System Kernel (Client/Server Architecture, Structure of an SAP system, Processing in SAP), Communication and Integration Technologies (Remote Function Calls, Internet Technologies).			
Recommended litera	iture:		
Course language:	Course language:		
Notes:			
Course assessment Total number of assessed students: 156			
	abs	n	
	100.0 0.0		
Provides: RNDr. Štefan Pero, RNDr. Edita Vojtová			
Date of last modification: 17.02.2014			
Approved: prof. RNI	Approved: prof. RNDr. Viliam Geffert, DrSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Ourse ID: ÚTVŠ/ Course name: Seaside Aerobic Exercise IVŠ/CM/13 Course name: Seaside Aerobic Exercise		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 36 Per study period: 504 Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:	Learning outcomes:		
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:	Notes:		
Course assessment Total number of assessed students: 7			
	abs n		
57.14 42.86			
Provides: Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.			
Date of last modification: 15.01.2014			
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN OPS1/06	Course ID: ÚINF/Course name: Security of computer networksOPS1/06						
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	pe and the met ecture / Practice course-load (h Per study perio : present	hod: ours): od: 28 / 28					
Number of cred	its: 5						
Recommended s	semester/trimes	ster of the course	e: 2.				
Course level: II.							
Prerequisities:							
Conditions for c	ourse completi	on:					
Learning outcor	nes:						
Brief outline of t	the course:						
Recommended l	iterature:						
Course language	e:						
Notes:							
Course assessme Total number of	ent assessed studen	ts: 54					
A	В	С	D	E	FX		
25.93 22.22 27.78 7.41 16.67 0.0							
Provides: doc. R	NDr. Jozef Jirás	sek, PhD., RNDr.	Rastislav Krivo	s-Belluš, PhD.			
Date of last mod	lification: 03.02	2.2014					
Approved: prof.	RNDr. Viliam (Geffert, DrSc.					

University: P. J.	. Šafárik Univers	sity in Košice				
Faculty: Faculty	y of Science					
Course ID: ÚINF/ EIB/04Course name: Security of computer systems						
Course type, sc Course type: Recommended Per week: Per Course metho	ope and the me d course-load (h r study period: d: present	thod: ours):				
Number of cred	lits: 0					
Recommended	semester/trime	ster of the cours	e:			
Course level: II	-					
Prerequisities:	(ÚINF/PDS1/03	or ÚINF/OPS1/1	1) and ÚINF/KF	RP1/06		
Conditions for	course complet	ion:				
Learning outco	mes:					
Brief outline of	the course:			-		
Recommended	literature:					
Course languag	ge:					
Notes:				-		
Course assessm Total number of	ent f assessed studer	nts: 15				
А	В	С	D	Е	FX	
40.0	40.0 20.0 20.0 20.0 0.0 0.0					
Provides:						
Date of last mo	dification: 03.02	2.2014				
Approved: prof	. RNDr. Viliam	Geffert, DrSc.				

University: P. J	University: P. J. Šafárik University in Košice						
Faculty: Facult	y of Science						
Course ID: ÚM VKM/10	Course ID: ÚMV/ Course name: Selected topics in mathematics VKM/10						
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 cree	dits: 5						
Recommended	semester/trimes	ster of the cours	e: 1.				
Course level: II	[
Prerequisities:							
Conditions for Awarded accord points).	course completi ding to tests duri	on: ng semester (40	points), written o	exam (20 points)	, oral exam (40		
Learning outco Students learn t linear and integ	mes: the fundamentals er optimalization	of probability th n. The emphasis i	eory, random pros	ocesses, algebra	of polynomials,		
 Brief outline of the course: Probability: classical definition, conditional probability, characteristics of random variables, geometrical probability. Random processes, Markov chains. Polynomials over a field. Decomposition into irreducible factors. Roots of polynomials. Formulation of linear and integer programs. Graphic solution. Simplex method. Duality. Algorithm for integer programming. 							
Recommended literature: G. Birkhoff, S. MacLane: Prehľad modernej algebry, Alfa Bratislava, 1979 T. Katriňák a kol.: Algebra a teoretická aritmetika 1, Alfa Bratislava, 1985 Plesník, Dupáčová, Vlach: Lineárne programovanie, Alfa, Bratislava 1990 Riečan a kol.:Pravdepodobnosť a matematická štatistika, Alfa, Bratislava, 1984 Skřivánková V.: Pravdepodobnosť v príkladoch, UPJŠ, Košice, 2006							
Course language: Slovak							
Notes:							
Course assessment Total number of assessed students: 23							
А	В	С	D	Е	FX		
13.04	26.09	30.43	13.04	13.04	4.35		
Provides: doc.	RNDr. Miroslav	Ploščica, CSc., d	oc. RNDr. Roma	n Soták, PhD.			

Date of last modification: 14.02.2014

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Šafá	rik University in Košice							
Faculty: Faculty of S	Faculty: Faculty of Science							
Course ID: ÚINF/ SWB/10	Course name: Semantic web							
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	nd the method: re / Practice rse-load (hours): study period: 28 / 14 esent							
Number of credits: 4								
Recommended seme	ster/trimester of the course: 2.							
Course level: II.								
Prerequisities:								
Conditions for cours	e completion:							
Learning outcomes: To introduce semant management systems	ic web languages RDF, RDFS and OWL. Modelling ontologies, ontology , ontology databases.							
Brief outline of the c - Semantic web - mot - XML, syntax, prog Examples in of proce - Semantic web mode - Semantic web query - Software tools: Jena - Introduction to Dese - Inferencing in Desc	ourse: tivation, problems, visions. ramming models DOM, SAX, StAX, namespaces in XML, XPath, XQuery. ssing in Java. elling languages: RDF, RDFS, OWL y languages: SPARQL, SeRQL a, Sesame, Protege cription logic ription logic							
Recommended litera [1]Grigoris Antoniou Edition. MIT Press, 2 [2] Franz Baader, Die Peter Patel-Schneider Implementation and 2 [3] http://www.openr [4] http://protege.star [5] http://jena.sourcet [6] http://www.w3.or	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/ forge.net/ g/TR/rdf-sparql-query/							
Course language:								
Notes:								

Course assessment Total number of assessed students: 30						
A B C D E FX						
80.0 3.33 10.0 0.0 0.0 6.67						
Provides: RNDr. Peter Gurský, PhD.						
Date of last modification: 03.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J.	Šafárik Univers	sity in Košice				
Faculty: Faculty of Science						
Course ID: ÚIN SPS1/00	Course ID: ÚINF/ Course name: Seminar in network programming SPS1/00					
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 3 Per study period: 42 Course method: present						
Number of crea	lits: 3					
Recommended	semester/trime	ster of the course	e: 3.			
Course level: I.	, II.					
Prerequisities:						
Conditions for	course complet	ion:				
Learning outco To render curren	mes: nt technologies of	of programing in r	network distrib	uted environment		
Brief outline of Basics of progr Procedure Calls ASP, JSP, Com Model, XML, X Advanced level	amming the cli Server-side proponent Object M SL, dynamic ex of programming	ent-server applica ogramming, CGI, Model, Corba, dat atensions of HTM g is expected.	ations, iterative PHP, basics of abase connecti L.	e and concurrent Perl and Python. S ion's interfaces. D	servers, Remote Script languages, ocument Object	
Recommended Internet sources	literature: and specification	ons.				
Course languag	ge:					
Notes:						
Course assessment Total number of assessed students: 45						
А	В	С	D	Е	FX	
66.67	66.67 15.56 15.56 0.0 2.22 0.0					
Provides: RNDr. Rastislav Krivoš-Belluš, PhD.						
Date of last mo	dification: 03.0	2.2014				
Approved: prof	. RNDr. Viliam	Geffert, DrSc.				

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚINF/ DST1b/01	Course ID: ÚINF/ Course name: Seminar in theoretical informatics					
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	nd the method: ce rse-load (hours): dy period: 28 esent					
Number of credits: 2	2					
Recommended seme	ster/trimester of the course	e: 3.				
Course level: II.						
Prerequisities: ÚINF	/DST1a/01					
Conditions for cours	e completion:					
Learning outcomes: To study new knowle current state in the ar	edges in the area of the theor ea using conference proceed	etical informatics in the seminar form. To follow ings and special journals.				
Brief outline of the c Seminar is oriented to theoretical foundation	ourse: o an individual work with stuns of informatics.	idents which have the diploma theses in the area:				
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents						
Course language:						
Notes:						
Course assessment Total number of asses	ssed students: 0					
	abs					
0.0 0.0						
Provides: prof. RNDr. Viliam Geffert, DrSc.						
Date of last modifica	Date of last modification: 03.02.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.						

Faculty: Faculty of Science Course ID: ÚINF/ DSA 1a/06 Course name: Seminar on applied informatics Course type, scope and the method: Course type; Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To study new knowledges in the area of applied informatics in the seminar form. To follow current state in the area using conference proceedings and specialized journals. Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako pisať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Nutes:	University: P. J. Šafárik University in Košice								
Course ID: ÚINF/ DSA1a/06 Course name: Seminar on applied informatics Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To study new knowledges in the area of applied informatics in the seminar form. To follow current state in the area using conference proceedings and specialized journals. Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Nutos:	Faculty: Faculty of S	Faculty: Faculty of Science							
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To study new knowledges in the area of applied informatics in the seminar form. To follow current state in the area using conference proceedings and specialized journals. Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Notos:	Course ID: ÚINF/ DSA1a/06	ourse ID: ÚINF/ SA1a/06Course name: Seminar on applied informatics							
Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To study new knowledges in the area of applied informatics in the seminar form. To follow current state in the area using conference proceedings and specialized journals. Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Nutes:	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present								
Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To study new knowledges in the area of applied informatics in the seminar form. To follow current state in the area using conference proceedings and specialized journals. Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Natee:	Number of credits: 2								
Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To study new knowledges in the area of applied informatics in the seminar form. To follow current state in the area using conference proceedings and specialized journals. Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Nates:	Recommended seme	ster/trimester of the cours	e: 2.						
Prerequisities: Conditions for course completion: Learning outcomes: To study new knowledges in the area of applied informatics in the seminar form. To follow current state in the area using conference proceedings and specialized journals. Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Notes:	Course level: II.								
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Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc. Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language:	Learning outcomes: To study new knowle state in the area using	dges in the area of applied in g conference proceedings and	nformatics in the seminar form. To follow current d specialized journals.						
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. Course language: Notes:	Brief outline of the c Seminar is oriented to information system d	Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses related to information system development, application of combinatorial algorithms etc.							
Course language:	Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.								
Notes	Course language:								
Course assessment Total number of assessed students: 11									
abs n									
90.91 9.09									
Provides: doc. RNDr. Gabriel Semanišin, PhD., RNDr. Tomáš Horváth, PhD.									
Date of last modification: 03.02.2014	Date of last modifica	tion: 03.02.2014							
Approved: prof. RNDr. Viliam Geffert, DrSc.	Approved: prof. RNI	Dr. Viliam Geffert, DrSc.							

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University: P. J. Safá	rik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚINF/ Course name: Seminar on applied informatics DSA1b/06							
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	and the method: ce rse-load (hours): ady period: 28 esent						
Number of credits: 2	2						
Recommended seme	ster/trimester of the cours	e: 3.					
Course level: II.							
Prerequisities: UINF	5/DSA1a/06						
Conditions for cours	se completion:						
Learning outcomes: To study new knowle state in the area using	edges in the area of applied in g conference proceedings and	formatics in the seminar form. To follow current d specialized journals.					
Brief outline of the c Seminar is oriented t information system d	course: o an individual work with st levelopment, application of c	cudents which have the diploma theses related to combinatorial algorithms etc.					
Recommended litera Special and research supervisor. Katuščák, D.: Ako pí ISO 690: 1987 Docu ISO 2145: 1978 Docu	ature: literature connected to Diplo sať vysokoškolské a kvalifik mentation - Bibliographic re umentation - Numbering of o	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 assessed students: 4							
abs n							
100.0 0.0							
Provides: doc. RNDr. Gabriel Semanišin, PhD.							
Date of last modification: 03.02.2014							
Approved: prof. RNDr. Viliam Geffert, DrSc.							

University: P. J.	University: P. J. Šafárik University in Košice						
Faculty: Faculty	y of Science						
Course ID: ÚIN SPG1/05	INF/ Course name: Seminar on computer graphics						
Course type, sc Course type: H Recommended Per week: 2 Pe Course metho	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present						
Number of crea	lits: 3						
Recommended	semester/trime	ester of the cours	e: 2., 4.				
Course level: II							
Prerequisities:							
Conditions for	course comple	tion:					
Learning outco	mes:						
Brief outline of Seminar is conn presents actual t algorithms of co Knowledge from	Brief outline of the course: Seminar is connecte to the lecture UGR Introduction to computer graphics. In seminar form students presents actual theoretical and implementation problems. Main goal in interest is oriented to quick algorithms of computer graphics, geometric modelling and realistic drawing of scenes. Knowledge from the lecture UGR and good programmers experience are supposed						
Recommended	Recommended literature:						
Course language:							
Notes:							
Course assessment Total number of assessed students: 33							
А	В	C	D	Е	FX		
75.76	75.76 12.12 9.09 3.03 0.0 0.0						
Provides: RNDr. Rastislav Krivoš-Belluš, PhD., doc. RNDr. Jozef Jirásek, PhD.							
Date of last modification: 03.02.2014							
Approved: prof. RNDr. Viliam Geffert, DrSc.							

Faculty: Faculty of Science Course ID: ÚINF/ Course name: Seminár on data mining SDM1a/07 Course name: Seminár on data mining Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Course intervention Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Course level: II. Prerequisities: Course in the field of data mining. Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Brief outline of the course: Image: Signer Sign	University: P. J. Š	afárik Univers	ity in Košice					
Course ID: ÚINF/ Course name: Seminár on data mining SDM1a/07 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: Deepened knowledge and gained overview of the state-of-the-art in the area of data mining. Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0262-01211-9, 2004. Course language: Votes: Course assessment Zurse assessment Total number of assessed students: 23 A A B C D E FX 47.83 8.7 21.74 13.04 8	Faculty: Faculty of	of Science						
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Control to course completion: Learning outcomes: Decepted knowledge and gained overview of the state-of-the-art in the area of data mining. Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004. Course language: Notes: Course sessement Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014 Date of last modification: 03.02.2014	Course ID: ÚINF/ Course name: Seminár on data mining SDM1a/07							
Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: Deepened knowledge and gained overview of the state-of-the-art in the area of data mining. Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004. Course language: Votes: Course assessment Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.0	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present							
Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: Deepened knowledge and gained overview of the state-of-the-art in the area of data mining. Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004. Course language: Votes: Course assessment Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014	Number of credit	as: 2						
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Prerequisities: Conditions for course completion: Learning outcomes: Deepened knowledge and gained overview of the state-of-the-art in the area of data mining. Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004. Course language: Notes: Course assessment Total number of assessed students: 23 A B C D E FX A 7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014	Course level: II.							
Conditions for course completion: Learning outcomes: Deepened knowledge and gained overview of the state-of-the-art in the area of data mining. Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004. Course language: Notes: Course assessment Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. D E FX Date of last modification: $03.02.2014$ $aff (aff (aff (aff (aff (aff (aff (aff $	Prerequisities:	,						
Learning outcomes:Deepened knowledge and gained overview of the state-of-the-art in the area of data mining.Brief outline of the course:The seminar is devoted to study and discussion of recent advances in the field of data mining.Recommended literature:Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. MorganKaufmann, ISBN 978-0123814791, 2011.Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley,ISBN 978-0321321367, 2005.Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9,2004.Course language:Notes:Course assessmentTotal number of assessed students: 23ABCDEFX47.838.721.7413.048.70.0Provides: RNDr. Tomáš Horváth, PhD.Date of last modification: 03.02.2014	Conditions for co	ourse completi	on:					
Brief outline of the course: The seminar is devoted to study and discussion of recent advances in the field of data mining. Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004. Course language: Notes: Course assessment Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014	Learning outcom Deepened knowle	Learning outcomes: Deepened knowledge and gained overview of the state-of-the-art in the area of data mining.						
Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004. Course language: Votes: Course assessment Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014	Brief outline of th The seminar is de	ne course: voted to study	and discussion o	f recent advance	s in the field of d	ata mining.		
Course language: Notes: Course assessment Total number of assessed students: 23 E A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014 C C C D	Recommended literature: Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004							
Notes: Course assessment Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014 C C C	Course language:	Course language:						
Course assessment Total number of assessed students: 23 A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014 C C C	Notes:							
A B C D E FX 47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014 C C C D	Course assessment Total number of assessed students: 23							
47.83 8.7 21.74 13.04 8.7 0.0 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014 0.0 <th0< td=""><td>A</td><td>В</td><td>С</td><td>D</td><td>Е</td><td>FX</td></th0<>	A	В	С	D	Е	FX		
Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014	47.83	8.7	21.74	13.04	8.7	0.0		
Date of last modification: 03.02.2014	Provides: RNDr. 7	Provides: RNDr. Tomáš Horváth, PhD.						
	Date of last modi	fication: 03.02	2.2014					
Approved: prof. KNDr. Viliam Geffert, DrSc.	Approved: prof. H	RNDr. Viliam (Geffert, DrSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚINF/ DSL1a/01	ourse ID: ÚINF/ Course name: Seminar on logic of information systems SL1a/01 Course name: Seminar on logic of information systems				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2					
Recommended seme	ster/trimester of the course	e: 2.			
Course level: II.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes: To study new knowledges in the area of logic of information and knowledge systems in the seminar form. To follow current state in the area using conference proceedings and special journals.					
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: logic of information systems.					
 Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. 					
Course language:					
Notes:					
Course assessment Total number of assessed students: 5					
	abs n				
	100.0 0.0				
Provides: RNDr. Peter Gurský, PhD., RNDr. Tomáš Horváth, PhD.					
Date of last modification: 03.02.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: ÚINF/ DSL1b/01	Course ID: ÚINF/ Course name: Seminar on logic of information systems OSL1b/01 Course name: Seminar on logic of information systems				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2	2				
Recommended seme	ster/trimester of the course	e: 3.			
Course level: II.					
Prerequisities: ÚINF	DSL1a/01				
Conditions for cours	se completion:				
Learning outcomes: To study new knowledges in the area of logic of information and knowledge systems in the seminar form. To follow current state in the area using conference proceedings and special journals.					
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: logic of information systems.					
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.					
Course language:					
Notes:					
Course assessment Total number of assessed students: 12					
	abs n				
	100.0 0.0				
Provides: RNDr. Peter Gurský, PhD., RNDr. Tomáš Horváth, PhD.					
Date of last modification: 03.02.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.					

Faculty: Faculty of Science Course ID: ÚINF/ Course name: Seminar on neural networks and stringology DSN1a/04 Course name: Seminar on neural networks and stringology Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II.				
Course ID: ÚINF/ DSN1a/04 Course name: Seminar on neural networks and stringology Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II.				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II.				
Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Promovisities:				
Recommended semester/trimester of the course: 2. Course level: II. Province initial				
Course level: II.				
Drong quicities				
Conditions for course completion:				
Learning outcomes: To study new knowledges in the area of neural networks and stringology in the seminar form. To follow current state in the area using conference proceedings and special journals.				
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: neural networks and stringology.				
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.				
Course language:				
Notes:				
Course assessment Total number of assessed students: 1				
abs n				
100.0 0.0				
Provides: doc. RNDr. Gabriela Andrejková, CSc.				
Date of last modification: 03.02.2014				
Approved: prof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Safá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ DSN1b/04	Course name: Seminar on	neural networks and stringology		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present				
Number of credits: 2	2			
Recommended seme	ster/trimester of the cours	e: 3.		
Course level: II.				
Prerequisities: ÚINF	/DSN1a/04			
Conditions for cours	se completion:			
Learning outcomes: To study new knowledges in the area of neural networks and stringology in the seminar form. To follow current state in the area using conference proceedings and special journals.				
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: neural networks and stringology.				
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.				
Course language:				
Notes:				
Course assessment Total number of assessed students: 0				
abs n				
	0.0 0.0			
Provides: doc. RNDr. Gabriela Andrejková, CSc.				
Date of last modification: 03.02.2014				
Approved: prof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚINF/ DSB1a/01	Course name: Seminar on	security of computer networks		
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present			
Number of credits: 2	2			
Recommended seme	ster/trimester of the cours	e: 2.		
Course level: II.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: the security of computer networks.				
 Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents. 				
Course language:				
Notes:				
Course assessment Total number of assessed students: 0				
abs n				
	0.0 0.0			
Provides: doc. RNDr. Jozef Jirásek, PhD.				
Date of last modification: 03.02.2014				
Approved: prof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: ÚINF/ DSB1b/01	Course ID: ÚINF/ Course name: Seminar on security of computer networks DSB1b/01 Course name: Seminar on security of computer networks				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2	2				
Recommended seme	ster/trimester of the course	e: 3.			
Course level: II.					
Prerequisities: ÚINF	C/DSB1a/01				
Conditions for cours	e completion:				
Learning outcomes: In the seminar form to study new knowledges in the area of cryptology and security of computer networks. To follow current state in the area using conference proceedings and special journals.					
Brief outline of the course: Seminar is oriented to an individual work with students which have the diploma theses in the area: the security of computer networks.					
Recommended literature: Special and research literature connected to Diplomaa theses according to recommendations of supervisor. Katuščák, D.: Ako písať vysokoškolské a kvalifikačné práce, 2. vydanie Bratislava, 1998 ISO 690: 1987 Documentation - Bibliographic references. Content, form and structure. ISO 2145: 1978 Documentation - Numbering of divisions and subdivisions in written documents.					
Course language:					
Notes:					
Course assessment Total number of assessed students: 3					
abs n					
	100.0 0.0				
Provides: doc. RNDr. Jozef Jirásek, PhD.					
Date of last modification: 03.02.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.					
Approved, prot. 10(1), vinani Generi, 1966.					

Faculty: F. J. Satalit Oniversity in Kosice Faculty: Faculty of Science Course ID: ÚINF/ SDI1a/03 Course name: Seminar to diploma theses in informatics Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: ÚINF/PDSI1/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Faculty: Faculty of Science Course ID: ÚINF/ Course name: Seminar to diploma theses in informatics SDI1a/03 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course type: practice Recommended semester/trimester of the course: 2. Course type: Prevent Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: ÚINF/PDS11/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Course ID: UINF/ SDI1a/03 Course name: Seminar to diploma theses in informatics SDI1a/03 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: ÚINF/PDS11/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: ÚINF/PDS11/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language: Verse language: Verse language:		
Number of credits: 2 Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: ÚINF/PDSI1/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Recommended semester/trimester of the course: 2. Course level: II. Prerequisities: ÚINF/PDSI1/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Course level: II. Prerequisities: ÚINF/PDS11/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Prerequisities: ÚINF/PDSI1/04 Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Conditions for course completion: Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Brief outline of the course: Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion. Recommended literature: Course language:		
Recommended literature: Course language:		
Course language:		
Notes:		
Course assessment Total number of assessed students: 110		
abs n		
97.27 2.73		
Provides: doc. RNDr. Gabriela Andrejková, CSc., doc. RNDr. Jozef Jirásek, PhD.		
Date of last modification: 03.02.2014		
Approved: prof. RNDr. Viliam Geffert, DrSc.		

University: P. J. Safárik University in Košice			
Faculty: Faculty of Scien	ce		
Course ID: ÚINF/ Course ID: ÚINF/	urse name: Seminar to o	diploma theses in informatics	
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present			
Number of credits: 2			
Recommended semester	/trimester of the course	e: 3.	
Course level: II.			
Prerequisities: ÚINF/SD	I1a/03		
Conditions for course co	mpletion:		
Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation			
Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion.			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 103			
abs n			
100.0 0.0			
Provides: doc. RNDr. Gabriela Andrejková, CSc., doc. RNDr. Jozef Jirásek, PhD.			
Date of last modification: 03.02.2014			
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚINF/ SDI1c/00	Course name: Seminar to	diploma theses in informatics	
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e: 4.	
Course level: II.			
Prerequisities: ÚINF	/SDI1b/00		
Conditions for cours	e completion:		
Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation			
Every thesis has a compulsory theoretical part and may also contain a software part. To gain recognition, the following is necessary: a detailed compilation of studied literature (a minimum of thirty pages) and at least twenty pages of text containing the candidate's own views of the problem area, possible research goals, own results are welcome (if the thesis is purely theoretical, this will be judged more strictly). For the SW part: a tested implementation (must conform to user requirements, help and user friendly user interface not necessary at this stage) and access to source texts. For both parts there will be an oral presentation and discussion.			
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 90			
	abs n		
	100.0 0.0		
Provides: doc. RNDr. Gabriela Andrejková, CSc., doc. RNDr. Jozef Jirásek, PhD.			
Date of last modification: 03.02.2014			
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Šafárik University in Košice						
Faculty: Faculty	Faculty: Faculty of Science					
Course ID: ÚIN SPB/12	NF/ Course na	ame: Software pr	oduct in a bussin	ess environment		
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 0 / 2 Per study period: 0 / 28 Course method: present						
Number of crea	lits: 2					
Recommended	semester/trimes	ster of the cours	e: 1., 3.			
Course level: II	•					
Prerequisities:	Prerequisities:					
Conditions for course completion:						
Learning outcomes:						
Brief outline of the course:						
Recommended literature:						
Course language:						
Notes:						
Course assessment Total number of assessed students: 9						
А	В	С	D	Е	FX	
100.0	0.0	0.0 0.0 0.0 0.0 0.0				
Provides: Mgr. Alexander Szabari, PhD.						
Date of last modification: 03.02.2014						
Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚTVŠ/ TVa/11	Course ID: ÚTVŠ/ Course name: Sports Activities I. Va/11			
Course type, scope a	nd the met	thod:		
Course type: Practic	ce			
Recommended cour	rse-load (h	ours):		
Per week: 2 Per stu	dy period:	28		
Course method: pre	esent			
Number of credits: 2	2			
Recommended seme	ster/trimes	ster of the course: 1.		
Course level: I., I.II.,	II.			
Prerequisities:	Prerequisities:			
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment				
Total number of assessed students: 7160				
abs		n	neabs	
88.42 7.82 3.76				
Provides: PaedDr. Imrich Staško, doc. PhDr. Ivan Šulc, CSc., doc. Mgr. Rastislav Feč, PhD., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, Mgr. Peter Bakalár, PhD., doc. PaedDr. Ivan Uher, PhD., PaedDr. Milena Švedová, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško				
Date of last modification: 15.01.2014				

Approved: prof. RNDr. Viliam Geffert, DrSc.
University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚTVŠ/ TVb/11	Course name: Sports Activities II.			
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present				
Number of credits: 2	2			
Recommended seme	ster/trimes	ster of the course: 2.		
Course level: I., I.II.,	II.			
Prerequisities:				
Conditions for cours	se completi	on:		
Learning outcomes:				
Brief outline of the c	Brief outline of the course:			
Recommended litera	Recommended literature:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 6364				
abs	n neabs			
84.95 11.06 3.99				
Provides: PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, doc. PaedDr. Ivan Uher, PhD., Mgr. Peter Bakalár, PhD., PaedDr. Milena Švedová, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško				
Date of last modification: 15.01.2014				

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚTVŠ/ TVc/11	Course name: Sports Activities III.				
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present					
Number of credits: 2	2				
Recommended seme	ster/trimes	ster of the course: 3.			
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:	Notes:				
Course assessment Total number of assessed students: 4191					
abs		n	neabs		
89.91 4.72 5.37					
Provides: PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, doc. PaedDr. Ivan Uher, PhD., PaedDr. Milena Švedová, PhD., Mgr. Peter Bakalár, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško					
Date of last modification: 15.01.2014					
1					

Approved: prof. RNDr. Viliam Geffert, DrSc.

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚIN SMI1/08	IF/ Course n	Course name: Statistical methods in informatics			
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28 Course method: present				
Number of cred	lits: 5				
Recommended	semester/trime	ester of the course	e: 2.		
Course level: II.	-				
Prerequisities:					
Conditions for o	course complet	tion:			
Learning outcomes: To understand probability and statistical terms and principles. Make students familiar with the base stochastic and statistical methods and techniques for modeling and data processing.					
Brief outline of the course: Randomness, probability. Laws of probability distributions, characteristics of location, variability and dependency. Samples, estimates and tests of hypotheses. Modeling of dependencies, noise. Bayes theory of decision. Pseudorandom values and Monte Carlo method.					
Recommended literature: 1. TÖRÖK Cs: Úvod do teórie pravdepodobnosti a matematickej štatistiky, Košice, 1992 2. ALPAYDIN E.: Introduction To Machine Learning, MIT Press, 2004 - http://www2.chass.ncsu.edu/garson/pa765/statnote.htm - http://www.statsoft.com/textbook/stathome.html - http://www.r-project.org/					
Course language:					
Notes:					
Course assessment Total number of assessed students: 430					
А	В	C	D	E	FX
3.95	6.05	13.26	24.88	33.72	18.14
Provides: doc. RNDr. Csaba Török, CSc.					
Date of last modification: 03.02.2014					
Approved: prof. RNDr. Viliam Geffert, DrSc.					

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ SVK1/00	Course na	Course name: Student scientific conference			
Course type, scope Course type: Recommended co Per week: Per st Course method: p	e and the met ourse-load (h udy period: present	hod: ours):			
Number of credits	: 4				
Recommended sen	nester/trimes	ter of the cours	se: 2., 4.		
Course level: I., 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	t sessed studen	ts: 101			
A	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides:			l	1	
Date of last modifi	cation: 03.02	.2014			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚTVŠ/ LKSp//13	Course name: Summer Course-Rafting of TISA River		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 36 Per study period: 504 Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 63			
abs n			
41.27 58.73			
Provides: Mgr. Peter Bakalár, PhD.			
Date of last modification: 15.01.2014			
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚTVŠ/ KP/12	Course name: Survival Course		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 36 Per study period: 504 Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 185			
abs n			
41.62 58.38			
Provides: Mgr. Marek Valanský			
Date of last modification: 15.01.2014			
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚTVŠ/ ZKLS//13	Course name: Winter Ski Training Course		
Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 36 Per study period: 504 Course method: present			
Number of credits: 2			
Recommended seme	ster/trimester of the	e course:	
Course level: I., II.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended literature:			
Course language:			
Notes:			
Course assessment Total number of assessed students: 59			
abs n			
25.42 74.58			
Provides: PaedDr. Imrich Staško, doc. PhDr. Ivan Šulc, CSc.			
Date of last modification: 15.01.2014			
Approved: prof. RNI	Dr. Viliam Geffert, Dr	rSc.	