University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ ABSP/14	JINF/ Course name: ABAP basics			
Course type, scope a Course type: Lectur Recommended cour Per week: 2 / 1 Per Course method: pre	e / Practice rse-load (hours): study period: 28 / 14			
Number of credits: 4				
Recommended seme	ster/trimester of the cours	e:		
Course level: I., II., N	1			
Prerequisities: ÚINF	/ZTSP/14 or ÚINF/SAP1a/	06		
Conditions for cours	e completion:			
Learning outcomes:				
ABAP Open SQL, A operations, cycles, tes	nming in ABAP, declaratio BAP Workbench navigation st programs using a debugger	n of variables, the basic syntax of the language , ABAP editor, arithmetic, logic conditions, string r, an overview of the most important commands of objects, functional groups and function modules.		
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 24			
	abs	n		
	95.83	4.17		
Provides: RNDr. Štet	an Pero			
Date of last modifica	tion: 18.02.2014			
Annroved . prof RNI	Dr. Viliam Geffert, DrSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ OPSP/14Course name: ABAP object and dialog programming				
Course method: pre	re / Practice rse-load (hours): study period: 42 / 14 esent			
Number of credits: 5				
Recommended seme	ster/trimester of the cours	e:		
Course level: I., II., N				
Prerequisities: ÚINF	S/RASP/14			
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c Screen, function code	course: es, local and global classes, i	inheritance, polymorphism.		
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 20			
	abs	n		
	50.0	50.0		
Provides: RNDr. Štet	fan 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	cience					
Course ID: ÚINF/ RASP/14	Course name: ABAP repo	Course name: ABAP reporting				
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 14					
Number of credits: 4	1					
Recommended seme	ester/trimester of the course	2:				
Course level: I., II., I	N					
Prerequisities: ÚINI	F/ABSP/14 or ÚINF/ABA/08	3				
Conditions for cours	se completion:					
Learning outcomes:						
e	ables, selection screens, eval tables, function modules	ents, declarations and branching of programs, upload, download and module creation, code				
Recommended liter	ature:					
Course language:						
Notes:						
Course assessment Total number of asse	ssed students: 20					
	abs n					
	80.0	20.0				
Provides: RNDr. Šte	fan Pero					
Date of last modific:	ation: 18.02.2014					
Approved: prof. RN	Dr. Viliam Geffert, DrSc.					

E14 E 14	. Salarik Univers	sity in Košice			
raculty: Facult	y of Science				
Course ID: ÚIN SAP1b/06	NF/ Course na	ame: Administra	tion of mySAP s	ystem	
Course type: I Recommended	d course-load (h er study period:	ours):			
Number of crea	dits: 2				
Recommended	semester/trimes	ster of the cours	e: 4., 6.		
Course level: II	-				
Prerequisities:	ÚINF/SAP1a/06				
Conditions for Evakuation of p Test	course completi particular tasks.	ion:			
Learning outco	omes:				
To provide an in	ntroduction to the	e administration	techniques of my	SAP system.	
Brief outline of Fundamentals (Database, Stop Database, Back	the course: (System Logon, ping SAP / Data	Configuring SA abase), Systemco cheduling Back	P Logon), Startin onfiguration (Par	ng and Stopping rameters in SAF	, Parameters i
Brief outline of Fundamentals (Database, Stop Database, Back	the course: System Logon, ping SAP / Data ground Tasks(S nistration (Exten literature:	Configuring SA abase), Systemco cheduling Back	P Logon), Startin onfiguration (Par	ng and Stopping rameters in SAF	, Parameters i
Brief outline of Fundamentals (Database, Stop Database, Back Database Admi Recommended	The course: (System Logon, ping SAP / Data (ground Tasks(S nistration (Exten literature: .com/	Configuring SA abase), Systemco cheduling Back	P Logon), Startin onfiguration (Par	ng and Stopping rameters in SAF	, Parameters i
Brief outline of Fundamentals (Database, Stop Database, Back Database Admi Recommended http://www.sap.	The course: (System Logon, ping SAP / Data (ground Tasks(S nistration (Exten literature: .com/	Configuring SA abase), Systemco cheduling Back	P Logon), Startin onfiguration (Par	ng and Stopping rameters in SAF	, Parameters i
Brief outline of Fundamentals (Database, Stop Database, Back Database Admi Recommended http://www.sap. Course languag Notes: Course assessm	The course: (System Logon, ping SAP / Data (Sground Tasks(S nistration (Exten literature: .com/ ge:	Configuring SAl abase), Systemco cheduling Backa d Tablespaces).	P Logon), Startin onfiguration (Par	ng and Stopping rameters in SAF	, Parameters i
Brief outline of Fundamentals (Database, Stop Database, Back Database Admi Recommended http://www.sap. Course languag Notes: Course assessm	The course: (System Logon, ping SAP / Data condition (Saration (Exten literature: Istration (Exten literature: .com/ ge:	Configuring SAl abase), Systemco cheduling Backa d Tablespaces).	P Logon), Startin onfiguration (Par	ng and Stopping rameters in SAF	, Parameters i
Brief outline of Fundamentals (Database, Stop Database, Back Database Admi Recommended http://www.sap. Course languag Notes: Course assessm Total number of	the course: (System Logon, ping SAP / Data (Second Tasks(Second Tasks(Second Tasks)) nistration (Exten literature: .com/ ge:	Configuring SAl abase), Systemco cheduling Backş d Tablespaces).	P Logon), Startin onfiguration (Par ground Jobs, Mo	ng and Stopping rameters in SAF onitoring of Bac	P, Parameters i ckground Jobs
Brief outline of Fundamentals (Database, Stop Database, Back Database Admi Recommended http://www.sap. Course languag Notes: Course assessm Total number of A 49.12	The course: (System Logon, ping SAP / Data seground Tasks(Seground Tasks(Seground Tasks) (Stration (Exten literature: literature: .com/ ge: nent f assessed studen B	Configuring SAl abase), Systemco cheduling Backg d Tablespaces). tts: 57 C 12.28	P Logon), Startin onfiguration (Par ground Jobs, Mo	ng and Stopping rameters in SAF onitoring of Bac	P, Parameters i ckground Jobs
Brief outline of Fundamentals (Database, Stop Database, Back Database Admi Recommended http://www.sap. Course languag Notes: Course assessm Total number of A 49.12 Provides: RND	The course: (System Logon, ping SAP / Data seground Tasks(S nistration (Exten literature: .com/ ge: .com/ ge: .com/ ge: .com/ ge: .com/ ge: .com/ 26.32	Configuring SAl abase), Systemco cheduling Backg d Tablespaces). tts: 57 C 12.28 vský, CSc.	P Logon), Startin onfiguration (Par ground Jobs, Mo	ng and Stopping rameters in SAF onitoring of Bac	P, Parameters i ckground Jobs

Faculty: Faculty	y of Science					
Course ID: ÚIN AOS1/07	Course ID: ÚINF/ Course name: Administration of OS .OS1/07 .OS1/07					
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	Practice I course-load (I er study period	hours):				
Number of cred	lits: 2					
Recommended	semester/trime	ester of the cours	e: 3., 5.			
Course level: I.,	, II.					
Prerequisities:	ÚINF/OSY1/11					
Conditions for a	course complet	tion:				
Learning outco To be able to ins several network	tall Linux based	l system, divide di	sks, to know how	to install, config	gure and manage	
Brief outline of Introduction to	the course: OS Linux, hist	tory, communicat rmissions, text e		-		
Brief outline of Introduction to administration, GRUB, configur crontab, networ	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF	ditors, common of disk space, mov vork monitoring,	commands, inst unting, backups, firewall. Deamo	tallation, LILO, starting system, ons and systems	
Brief outline of Introduction to administration, GRUB, configur crontab, networf services SSH, A Linux core, cont Recommended NEMETH, E., S 2002	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF	ditors, common of disk space, mor ork monitoring, postfix/sendma	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR,	
Brief outline of Introduction to administration, GRUB, configur crontab, networf services SSH, A Linux core, cont Recommended NEMETH, E., S 2002 SIEVER, E., WI	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H EBER, A., FIG	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF ng. IEIN, T. R.: Linux	ditors, common of disk space, mor ork monitoring, postfix/sendma	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR,	
Brief outline of Introduction to administration, GRUB, configur crontab, networf services SSH, A Linux core, cont Recommended NEMETH, E., S 2002 SIEVER, E., WI Edition, 2005	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H EBER, A., FIG	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF ng. IEIN, T. R.: Linux	ditors, common of disk space, mor ork monitoring, postfix/sendma	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR,	
Brief outline of Introduction to administration, GRUB, configur crontab, networf services SSH, A Linux core, cont Recommended NEMETH, E., S 2002 SIEVER, E., WI Edition, 2005 Course languag	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H EBER, A., FIG ge:	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF ng. IEIN, T. R.: Linux GINS, S., LOVE,	ditors, common of disk space, mor ork monitoring, postfix/sendma	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR,	
Brief outline of Introduction to administration, GRUB, configur crontab, networf services SSH, A Linux core, conf Recommended NEMETH, E., S 2002 SIEVER, E., WE Edition, 2005 Course languag Notes: Course assessm	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H EBER, A., FIG ge:	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF ng. IEIN, T. R.: Linux GINS, S., LOVE,	ditors, common of disk space, mor ork monitoring, postfix/sendma	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR,	
Brief outline of Introduction to administration, GRUB, configur crontab, networ services SSH, A Linux core, com Recommended NEMETH, E., S 2002 SIEVER, E., WI Edition, 2005 Course languag Notes: Course assessm Total number of	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H EBER, A., FIG ge: ment f assessed stude:	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF ng. IEIN, T. R.: Linux GINS, S., LOVE,	ditors, common of disk space, mor york monitoring, postfix/sendma & Administration R., ROBBINS, A	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren A.: Linux in a Nu	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR, utshell, 5th	
Brief outline of Introduction to administration, GRUB, configur crontab, networf services SSH, A Linux core, cont Recommended NEMETH, E., S 2002 SIEVER, E., WE Edition, 2005 Course languag Notes: Course assessm Total number of A 51.56	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H EBER, A., FIG ge: ge: B 23.44	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF ng. IEIN, T. R.: Linux GINS, S., LOVE,	ditors, common of disk space, mor york monitoring, postfix/sendma & Administration R., ROBBINS, A D 6.25	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren A.: Linux in a Nu E 7.81	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR, tishell, 5th FX	
Brief outline of Introduction to administration, GRUB, configur crontab, networf services SSH, A Linux core, cont Recommended NEMETH, E., S 2002 SIEVER, E., WE Edition, 2005 Course languag Notes: Course assessm Total number of A 51.56	the course: OS Linux, hist UID, GID, pe ration after insta k connection co Apache, FTP, S figuration, testin literature: SNYDER, G., H EBER, A., FIG ge: ge: B 23.44 r. Peter Gurský,	rmissions, text e allation, division o onfiguration, netw amba, NFS, NTF ng. IEIN, T. R.: Linux GINS, S., LOVE, nts: 64 C 3.13 PhD., RNDr. JUI	ditors, common of disk space, mor york monitoring, postfix/sendma & Administration R., ROBBINS, A D 6.25	commands, inst unting, backups, firewall. Deamo il, DHCP, DNS. Handbook, Pren A.: Linux in a Nu E 7.81	tallation, LILO, starting system, ons and systems . Compiling the tice Hall PTR, tishell, 5th FX	

	rik University in Košice			
Faculty: Faculty of S	science			
Course ID: ÚINF/ ASSP/14				
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 14			
Number of credits: 4	4			
Recommended seme	ester/trimester of the cours	e: 4., 6.		
Course level: I., II., I	N			
Prerequisities: ÚINF	F/ZLSP/14			
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c Fundamentals (Syste		P Logon), Starting and Stopping (Starting SAP/		
Database, Stopping Database, Backgrou		configuration (Parameters in SAP, Parameters in ground Jobs, Monitoring of Background Jobs),		
Database, Stopping Database, Backgrou	nd Tasks(Scheduling Backs tion (Extend Tablespaces).	configuration (Parameters in SAP, Parameters in		
Database, Stopping Database, Backgrou Database Administra	nd Tasks(Scheduling Backs tion (Extend Tablespaces).	configuration (Parameters in SAP, Parameters in		
Database, Stopping Database, Backgrou Database Administra Recommended litera	nd Tasks(Scheduling Backs tion (Extend Tablespaces).	configuration (Parameters in SAP, Parameters in		
Database, Stopping Database, Backgrou Database Administra Recommended litera Course language:	nd Tasks(Scheduling Backs tion (Extend Tablespaces). ature:	configuration (Parameters in SAP, Parameters in		
Database, Stopping Database, Backgrou Database Administra Recommended litera Course language: Notes: Course assessment	nd Tasks(Scheduling Backs tion (Extend Tablespaces). ature:	configuration (Parameters in SAP, Parameters in		
Database, Stopping Database, Backgrou Database Administra Recommended litera Course language: Notes: Course assessment	nd Tasks(Scheduling Backs tion (Extend Tablespaces). ature: ssed students: 11	configuration (Parameters in SAP, Parameters in ground Jobs, Monitoring of Background Jobs),		
Database, Stopping Database, Backgrou Database Administra Recommended litera Course language: Notes: Course assessment	nd Tasks(Scheduling Backs tion (Extend Tablespaces). ature: ssed students: 11 abs 100.0	n		
Database, Stopping Database, Backgrou Database Administra Recommended litera Course language: Notes: Course assessment Total number of asse	nd Tasks(Scheduling Backs tion (Extend Tablespaces). ature: ssed students: 11 abs 100.0 fan Pero	n		

		OURSE INFORM			
University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚM ALG3b/10	V/ Course na	me: Algebra II f	or informatician	s and physicists	
Recommended	Lecture / Practice l course-load (h 2 Per study peri	ours):			
Number of cred	lits: 7				
Recommended	semester/trimes	ster of the course	e: 2.		
Course level: I.,	, II.				
Prerequisities:	ÚMV/ALGa/10				
Conditions for Exam	course completi	on:			
Learning outco To provide deep		n vector spaces, li	near transforma	tions and Euclide	ean spaces.
spaces. The ran tranformations, transformations of linear transfo	k of a matrix. I matrices of su , regular matrice rmations.	sis, a dimension linear transforma ms and compos s. Similar matrice eir positions. Euc	tions and their sitions of linear s. Characteristic	matrices. Operat tranformations. vectors and char	ions with linear Regular linear racteristic values
	Algebra and Geo	metry, Cambridg rvey of Modern A	2	,	
Course languag Slovak	ge:				
Notes:					
Course assessm Total number of	ent assessed studen	ts: 261			
А	В	С	D	E	FX
9.96	7.66	9.58	14.56	41.38	16.86
Provides: doc. F Mišková, RNDr.		oták, PhD., RNDr 1D.	. Katarína Furco	pňová, PhD., RNI	Dr. Anna
Date of last mo	dification: 14.02	2.2014			
Approved: prof	. RNDr. Viliam (Geffert, DrSc.			
		-			

University: P. J. S	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚINF APA1/09	ÚINF/ Course name: Approximation algorithms				
Course type, sco Course type: Le Recommended Per week: 2 / 1 Course method	ecture / Practice course-load (h Per study perio	ours):			
Number of credi	ts: 5				
Recommended se	emester/trimes	ster of the cours	e: 5.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcom	nes:				
Brief outline of t	he course:			e	
Recommended li	terature:				
Course language	:				
Notes:					
Course assessme Total number of a	-	ts: 110			
A	В	С	D	Е	FX
19.09	14.55	24.55	18.18	22.73	0.91
Provides: prof. R Krídlo, PhD.	NDr. Viliam G	effert, DrSc., doc	. RNDr. Gabriel	Semanišin, PhD	., RNDr. Ondrej
Date of last modi	ification: 03.02	2.2014			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Univer	rsity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN AFJ1b/00	F/ Course r	name: Automata a	nd formal langua	iges	
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	ecture / Practic l course-load (Per study per	ce hours):			
Number of cred	lits: 5				
Recommended	semester/trim	ester of the cours	e: 1.		
Course level: I.,	II.				
Prerequisities:	ÚINF/AFJ1a/03	3			
Conditions for of Test and oral example.	-	tion:			
Learning outcome To provide theore knowledge in the	etical backgrou	ind for studying co ita.	mputer science ir	n general, by givi	ng the necessary
sensitive gramm machines. Space	al structure of ars and linearly be bounded mathematical	contextfree grams y-bounded Turing achines. Phrase-st ecidable problems	machines. Deterr ructure gramma	ninistic linearly- rs and Turing	bounded Turing machines. Post
(Slovak translat M.Chytil. Autor	d J.D.Ullman. I ion published b nata and gramm	Formal languages by ALFA, Bratislav nars. SNTL, 1984 k of theoretical co	/a, 1978). . (In Czech).		, i i i i i i i i i i i i i i i i i i i
Course languag	e:				
Notes:					
Course assessm Total number of		ents: 471			
А	В	C	D	Е	FX
37.58	13.8	20.59	18.68	6.37	2.97
Provides: prof. 3	RNDr. Viliam (Geffert, DrSc., Mg	r. Alexander Sza	bari, PhD.	
Date of last mod	dification: 03.0	02.2014			

University: P. J. Šafár	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ BIOE1/02	Course name: Bioenergetics
Course type, scope a Course type: Lectur Recommended cour Per week: 2 Per stu Course method: pre	e rse-load (hours): dy period: 28
Number of credits: 3	
Recommended seme	ster/trimester of the course: 2., 4.
Course level: II.	
Prerequisities:	
Conditions for cours	e completion:
involving in the pro transport in the biolog Brief outline of the c Energy in the biosph	here. Fenomenology of bioenergetical processes. Control and regulation in
bioenergetics. Chemi phosphorylation. The dehydrogenase (com III) and cytochrome Photosynthesis-basic	osmotic theory. Structure and function of the respiratory chain. Oxidative e enzymes of the respiratory chain. Structure and function of NADH plex I), succinate dehydrogenase (complex II), cytochrome bc1 (complex c oxidase (complex IV). Formation of the mitochondrial proton gradient. informations and mechanisms. Thermodynamics and kinetics of membrane imps and channels in the biological membranes.
Recommended litera	
	Fergusson. Bioenergetics 3, Academic Press, 2002. Biophysical and structural aspects of bioenergetics, The Royal 2005.
 D. Harris. Bioenerg V. Saks (Ed.). Mol 	getics at a glance, Blackwell Science Ltd., 1995. ecular system bioenergetics, Wiley-VCH, 2007.
	ondria, John Wiley & Sons, Inc., 1999. The mitochondrial free radical theory of aging, R.G. Landis
health and disease, K	R.C.A. Sengers and J.M.F. Trijbels. Oxidative phosphorylation in luwer Academic/Plenum Publisher, 2004.
o. m.w.C. Cheetnam.	Introducing biological energetics, Oxford University Press, 2011.
Course language:	
Notes:	

Course assessm Total number of	nent f assessed studen	ts: 22					
А	В	С	D	Е	FX		
86.36	86.36 4.55 4.55 0.0 4.55 0.0						
Provides: doc. 1	Mgr. Daniel Janc	ura, PhD.					
Date of last mo	dification: 10.02	2.2014					
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.					

University: P. J.	Šafárik Univer	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚFV BSIM1/03	// Course n	ame: Biomolecu	lar Simulations		
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practic course-load (l Per study per	e hours):			
Number of credi	its: 6				
Recommended s	semester/trime	ester of the cour	se: 2., 4.		
Course level: II.					
Prerequisities:					
Development of Exam.	own computer	f the project on gi programs on pro	ject given at the		
Introduction to a	ctual problema	tics of biomolecu	ular simulations.		
as flow of biolog mechanisms. Ex force fields and Carlo methods - approaches. Cor	eteristics of bio gical informatic perimental me l methods of algorithms an nputational ch energy evalua	on. 3D-structure a ethods of structure classical molecu d paralelization. allenges in biom tion, protein fol	nd function of fo re determination lar dynamics. M <i>Ab initio</i>	ntral dogma of mo Idamers. Recent w and their limitat Molecular dynam molecular dynar tions - simulatio ional complexity,	view on enzyme ions. Empirica ics and Monte nics and hybric ns of chemica
Recommended I		1 1			
Actual literature		by lecturer.		-	
Notes:	· ·				
Course assessme					
Total number of		1	D		FV
A	B	C	D	E	FX
75.76	9.09	12.12	0.0	3.03	0.0
	ND I CIII.	čný CSc			
Provides: doc. R					
Provides: doc. R Date of last mod					

University: P. J. Šafá	irik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚINF/ KKV1/06	Course name: Classical and quantum computations
Course type, scope a Course type: Lectu Recommended cou Per week: 3 / 1 Per Course method: pro	re / Practice rse-load (hours): study period: 42 / 14
Number of credits: (6
Recommended seme	ester/trimester of the course: 5.
Course level: II.	
Prerequisities:	
Conditions for cours Written work Written and oral exam	-
Learning outcomes: To provide informat and quantum models	ion on quantum computer and quantum computations. To compare classical
algorithms, probabil an algorithm. Introc superoperators), uni factoring algorithm,	course: sical theory of computation: Turing machines, Boolean circuits, parallel istic computation, NP-complete problems, and the idea of complexity of duction 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 f NP-completeness, and quantum error-correcting codes.
Quantum Computers 2. GRUSKA, J. Quan 3. JOHNSON, G. A 4. KITAEV, A.Y., SH Mathematical Societ 5. NIELSEN, M.A., Cambridge Universit	DOOLEN,G.D., MAINIERI, R., TSIFRINOVIC, V.I. Introduction to a. World Scientific, 2003. Intum Computing. McGraw-Hill, 1999. Shortcut Through Time: The Path to the Quantum Computer, Knopf 2003. HEN, A.H., VYALYI, M.N. Classical and Quantum Computation. American y, 2002. CHUANG, I.L. Quantum Computation and Quantum Information.
Course language:	

Course assessment Total number of assessed students: 65							
А	В	С	D	Е	FX		
24.62	27.69	12.31	20.0	10.77	4.62		
Provides: doc. 1	RNDr. Gabriel Se	emanišin, PhD., I	RNDr. Zuzana Be	ednárová, PhD.			
Date of last mo	Date of last modification: 03.02.2014						
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.					

University: P. J.	Šafárik Univer	rsity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN KPI1/01	F/ Course name: Coding and information transfer							
Course type, sc Course type: L Recommended Per week: 2 / 1 Course method	Lecture / Practic l course-load (Per study per	e hours):						
Number of cred	lits: 4							
Recommended	semester/trim	ester of the cours	e: 3., 5.					
Course level: II								
Prerequisities:								
Conditions for o	course comple	tion:						
Learning outco To provide the compression.		wledge of basic p	rinciples of info	rmation theory, c	coding and data			
coding, applica compression. So	tions. Arithme calar and vecto s. Transform co	cory, entropy, Mar tic coding, dictionr or quantizations. I oding, DFT, DCT, appression.	onary techniques Differential encod	s, applications. I ding, delta modu	Lossless image lation, subband			
CRC Pr.,1998 K. Sayood: Intro	G. Harris, P. Jo	hnson: Introduction a Compression, N ntion Theory, ČVU	lorgan Kaufmanı	n, 1996	a Compression			
Course languag	;e:							
Notes:								
Course assessm Total number of		nts: 84						
А	В	C	D	E	FX			
					ГА			
20.24	15.48	19.05	14.29	29.76	1.19			
20.24		19.05 7 Krajči, PhD., doo						
20.24	RNDr. Stanislav	V Krajči, PhD., doo						

Fooultry Fooult		sity in Košice						
racuny: Facult	ty of Science							
Course ID: ÚI) TVY/10	F/ Course name: Computability theory							
Course type: Recommende	cope and the met Lecture / Practice d course-load (h 1 Per study peri od: present	e ours):						
Number of cre	dits: 4							
Recommended	l semester/trimes	ster of the cours	se: 1.					
Course level: I	., II.							
Prerequisities:								
Conditions for	course completi	ion:						
-	omes: coretical backgro basic knowledge c			nce in general, l	by familiarising			
Brief outline of	f the course							
Kleene's norma machine, partia	al form theorem. ' al form theorem. ' al recursive and c blem of a Turing	The equivalences alculable by a co	s of the notion of mputer program.	a function calcula Algorithmical u	able by a Turing			
Kleene's norma machine, partia the halting prob Recommended MACHTEY, M Holland, Amste	e as a formalisa al form theorem. ⁷ al recursive and c blem of a Turing I literature: I. and YOUNG, F	The equivalences alculable by a co machine and a co P.: An Introduction	s of the notion of omputer program. omputer program	a function calcula Algorithmical u Theory of Algor	able by a Turing ndecidability o			
Kleene's norma machine, partia the halting prob Recommended MACHTEY, M Holland, Amste BRIDGES, D.	e as a formalisa al form theorem. T al recursive and c blem of a Turing I literature: I. and YOUNG, F erdam 1978. S.: Computability	The equivalences alculable by a co machine and a co P.: An Introduction	s of the notion of omputer program. omputer program	a function calcula Algorithmical u Theory of Algor	able by a Turing ndecidability o			
Kleene's norma machine, partia the halting prob Recommended MACHTEY, M Holland, Amste	e as a formalisa al form theorem. T al recursive and c blem of a Turing I literature: I. and YOUNG, F erdam 1978. S.: Computability	The equivalences alculable by a co machine and a co P.: An Introduction	s of the notion of omputer program. omputer program	a function calcula Algorithmical u Theory of Algor	able by a Turing ndecidability o ithms, North			
Kleene's norma machine, partia the halting prof Recommended MACHTEY, M Holland, Amste BRIDGES, D. Course langua Notes: Course assessm	e as a formalisa al form theorem. T al recursive and c blem of a Turing I literature: I. and YOUNG, F erdam 1978. S.: Computability ge:	The equivalences alculable by a co machine and a co P.: An Introduction y, A Mathematics	s of the notion of omputer program. omputer program	a function calcula Algorithmical u Theory of Algor	able by a Turing ndecidability o			
Kleene's norma machine, partia the halting prof Recommended MACHTEY, M Holland, Amste BRIDGES, D. Course langua Notes: Course assessm	e as a formalisa al form theorem. T al recursive and c blem of a Turing I literature: 1. and YOUNG, F erdam 1978. S.: Computability ge: nent	The equivalences alculable by a co machine and a co P.: An Introduction y, A Mathematics	s of the notion of omputer program. omputer program	a function calcula Algorithmical u Theory of Algor	able by a Turing indecidability of			
Kleene's norma machine, partia the halting prof Recommended MACHTEY, M Holland, Amsta BRIDGES, D. Course langua Notes: Course assessm Total number of	te as a formalisa al form theorem. T al recursive and c blem of a Turing I literature: I. and YOUNG, F erdam 1978. S.: Computability ge: nent of assessed studen	The equivalences alculable by a co machine and a co P.: An Introduction y, A Mathematics tts: 751	on to the General	a function calcula Algorithmical u Theory of Algor	able by a Turing ndecidability o ithms, North 1994			
Kleene's norma machine, partia the halting prof Recommended MACHTEY, M Holland, Amsta BRIDGES, D. Course langua Notes: Course assessm Total number of A 17.04	te as a formalisa al form theorem. T al recursive and c blem of a Turing I literature: I. and YOUNG, F erdam 1978. S.: Computability ge: nent of assessed studen B	The equivalences alculable by a co machine and a co P.: An Introduction y, A Mathematics tts: 751 C 19.17	by of the notion of omputer program. Computer program on to the General al Sketch book, S D 18.38	a function calcula Algorithmical u Theory of Algor pringerVerlag E 11.19	able by a Turing ndecidability o ithms, North 1994 FX			
Kleene's norma machine, partia the halting prof Recommended MACHTEY, M Holland, Amste BRIDGES, D. Course langua Notes: Course assesses Total number of A 17.04 Provides: doc.	te as a formalisa al form theorem. T al recursive and c blem of a Turing I literature: I. and YOUNG, F erdam 1978. S.: Computability ge: nent of assessed studen B 10.65	The equivalences alculable by a co machine and a co P.: An Introduction y, A Mathematics tts: 751 C 19.17 Krajči, PhD., RN	by of the notion of omputer program. Computer program on to the General al Sketch book, S D 18.38	a function calcula Algorithmical u Theory of Algor pringerVerlag E 11.19	able by a Turing indecidability of ithms, North 1994 FX			

Faculty: Facult							
	y of Science						
Course ID: ÚI VKN/12	VF/ Course name: Computational and cognitive neuroscience						
Recommende	Lecture / Practic d course-load (1 1 Per study per	e hours):					
Number of crea	dits: 4						
Recommended	semester/trime	ester of the cours	e: 5.				
Course level: II	[.						
Prerequisities:							
Conditions for	course complet	tion:					
with focus on Prerequisite: In	cs in study of computational c tro to Neurosice	the central nervo concepts importan					
methods of the	in cognitive so	cience (following	-	luding connection			
-	ory principles	in modeling of co d auditory system	ognitive process		rcuits. Selected		
models of the h plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. R McGraw-Hill, 2	ory principles in numan visual an literature: OGH, A. and PA y 1991 R., SCHWARTZ 2000 I ABBOTT, L. F	in modeling of co d auditory system ALMER R. G.: Int , J. H. and JESSE	ognitive process s, learning, thin roduction to the LL, T.M.: Princi	theory of neural	computation.		
models of the h plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. R McGraw-Hill, 2 DAYAN, P. and Modeling of Ne	ory principles in numan visual an literature: OGH, A. and PA y 1991 R., SCHWARTZ 2000 I ABBOTT, L. Feural Systems. N	in modeling of co d auditory system ALMER R. G.: Int , J. H. and JESSE	ognitive process s, learning, thin roduction to the LL, T.M.: Princi	theory of neural	computation.		
models of the h plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. R McGraw-Hill, 2 DAYAN, P. and Modeling of Net	ory principles in numan visual an literature: OGH, A. and PA y 1991 R., SCHWARTZ 2000 I ABBOTT, L. Feural Systems. N	in modeling of co d auditory system ALMER R. G.: Int , J. H. and JESSE	ognitive process s, learning, thin roduction to the LL, T.M.: Princi	theory of neural	computation.		
models of the h plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. R McGraw-Hill, 2 DAYAN, P. and Modeling of Ne Course languag Notes:	ory principles in numan visual an literature: OGH, A. and PA y 1991 R., SCHWARTZ 2000 I ABBOTT, L. F eural Systems. M ge:	in modeling of co d auditory system ALMER R. G.: Int , J. H. and JESSE G.: Theoretical Neu /IT Press, 2001	ognitive process s, learning, thin roduction to the LL, T.M.: Princi	theory of neural	computation.		
models of the h plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. R McGraw-Hill, 2 DAYAN, P. and Modeling of Ne Course languag Notes:	ory principles in numan visual an literature: OGH, A. and PA y 1991 R., SCHWARTZ 2000 I ABBOTT, L. F eural Systems. N ge:	in modeling of co d auditory system ALMER R. G.: Int , J. H. and JESSE G.: Theoretical Neu /IT Press, 2001	ognitive process s, learning, thin roduction to the LL, T.M.: Princi	theory of neural	computation.		
models of the h plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. R McGraw-Hill, 2 DAYAN, P. and Modeling of Ne Course languag Notes: Course assessm Total number o	ory principles in numan visual an literature: OGH, A. and PA y 1991 R., SCHWARTZ 2000 I ABBOTT, L. F eural Systems. M ge: nent f assessed stude	in modeling of co d auditory system ALMER R. G.: Inf , J. H. and JESSE G.: Theoretical New AIT Press, 2001	ognitive process s, learning, thinl croduction to the LL, T.M.: Princip proscience – Con	king, attention, de theory of neural ples of Neural Sc nputa-tional and 1	rcuits. Selected evelopment and computation. eience. Mathematical		
models of the h plasticity. Recommended HERTZ, J., KR Addison-Wesle KANDEL, E. R McGraw-Hill, 2 DAYAN, P. and Modeling of Net Course languag Notes: Course assessm Total number of A 50.0	ory principles in a numan visual an literature: OGH, A. and P. y 1991 R., SCHWARTZ 2000 I ABBOTT, L. Feural Systems. N ge: hent f assessed stude B 0.0	ALMER R. G.: Int ALMER R. G.: Int , J. H. and JESSE G.: Theoretical New AIT Press, 2001	pgnitive process s, learning, thin roduction to the LL, T.M.: Princip proscience – Con D 0.0	king, attention, de theory of neural ples of Neural Sc nputa-tional and E E	rcuits. Selected evelopment and computation. eience. Mathematical		

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty					
Course ID: ÚIN VYZ1/04		ame: Computatio	nal complexity		
Course type, sco Course type: L Recommended Per week: 2 Pe Course method	ecture course-load (h r study period:	ours):			
Number of cred	its: 4				
Recommended s	semester/trimes	ster of the cours	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for c Oral examination	-	ion:			
Learning outcom To give the stud completeness.		tical background	in computation	al complexity and	theory of NP-
Deterministic sin Another NP-con satisfiability, 3- balancing, S	and nondeterm nulation of a non nplete problem colorability of pace bounded avitch theorem	ndeterministic Tu s: satisfiability c a graph, 3-color computations, c	ring machine. S of a formula in rability of a pl lasses LOG-sp	nomial time, NI Satisfiability of Bo a conjunctive n lanar graph, knap ace and P-space Classification of	olean formulae. ormal form, 3- psack problem, . Deterministic
1974. P.van Emde Boa theoretical comp Ch.K.Yap. Introd	D.Ullman. The d s. Machine mod puter science. No duction to the th	lels and simulation orth-Holland, 199 neory of complexi	ons. In J.van Lee 00. ity classes. To b	llgorithms. Addisc euwen (ed.): Hand e published by Ox edu/pub/local/yap/	book of ford Univ.
Course languag	e:				
Notes:					
Course assessme Total number of		its: 296			
-					
А	В	С	D	Е	FX

Provides: prof. RNDr. Viliam Geffert, DrSc.

Date of last modification: 03.02.2014

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Š	afárik Univers	ity in Košice						
Faculty: Faculty of	of Science							
Course ID: ÚINF EIT/10	INF/ Course name: Computational complexity, computational models							
Course type, scop Course type: Recommended o Per week: Per s Course method:	course-load (h tudy period:							
Number of credit	s: 0							
Recommended se	emester/trimes	ter of the cours	e:					
Course level: II.								
Prerequisities: Ú	INF/KKV1/06	and (ÚMV/KOA	/10 or ÚINF/A	NP/13)				
Conditions for co	ourse completi	on:						
Learning outcom	es:							
Brief outline of th	ne course:							
Recommended lit	terature:							
Course language:	:							
Notes:								
Course assessmen Total number of a		ts: 3						
A	В	С	D	E	FX			
0.0	66.67	33.33	0.0	0.0	0.0			
Provides:								
Date of last modi	fication: 03.02	.2014						
Approved: prof. H	RNDr. Viliam (Geffert, DrSc.						

Faculty: Faculty	of Science							
Course ID: ÚIN VYU1/03	F/ Course n	Course name: Computational learning						
Course type, sco Course type: La Recommended Per week: 2 / 1 Course method	ecture / Practic course-load (I Per study per	e nours):						
Number of credi	its: 5							
Recommended s	emester/trime	ester of the cours	e: 4.					
Course level: II.								
Prerequisities:								
Conditions for c Recognition, ora	-	ion:						
I comping outcom	n.o.s.							
1	udents basic ki	nowledge about c	omputational lea	rning algorithms				
To provide the st Brief outline of t Concepts, hypo algorithms for di	udents basic ki the course: theses, learnin sjunctions. Pro ly approximate	ng algorithms. E babilistic learning ly correct (PAC)	oolean formula g, consistent algo	e and represent prithms and learn	tation, learning ability, efficien			
To provide the st Brief outline of t Concepts, hypo algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. 1	udents basic ki the course: theses, learnin sjunctions. Pro ly approximate and learning al iterature: Biggs: Comput	ng algorithms. E babilistic learning ly correct (PAC)	Boolean formula g, consistent algo learning, Occam Theory, Cambrid	e and represent prithms and learn algorithms, Vapr ge University Pr	tation, learning ability, efficien nik-Cervonenki ress, 1991.			
To provide the st Brief outline of t Concepts, hypo algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. J M. J. Kearns, U.	udents basic kr the course: theses, learnin sjunctions. Pro by approximate and learning al iterature: Biggs: Comput V. Vazirani: Ar	ng algorithms. E babilistic learning ly correct (PAC) I gorithms.	Boolean formula g, consistent algo learning, Occam Theory, Cambrid	e and represent prithms and learn algorithms, Vapr ge University Pr	tation, learning ability, efficien nik-Cervonenki ress, 1991.			
To provide the st Brief outline of t Concepts, hypo algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. I M. J. Kearns, U. London, 1994.	udents basic kr the course: theses, learnin sjunctions. Pro by approximate and learning al iterature: Biggs: Comput V. Vazirani: Ar	ng algorithms. E babilistic learning ly correct (PAC) I gorithms.	Boolean formula g, consistent algo learning, Occam Theory, Cambrid	e and represent prithms and learn algorithms, Vapr ge University Pr	tation, learning ability, efficien nik-Cervonenki ress, 1991.			
To provide the st Brief outline of t Concepts, hypo algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. J M. J. Kearns, U. London, 1994. Course language	udents basic ki the course: theses, learnin sjunctions. Pro ly approximate and learning al iterature: Biggs: Comput V. Vazirani: An e: ent	algorithms. E babilistic learning ly correct (PAC) l gorithms. ational Learning n Introduction to	Boolean formula g, consistent algo learning, Occam Theory, Cambrid	e and represent prithms and learn algorithms, Vapr ge University Pr	tation, learning ability, efficien nik-Cervonenki ress, 1991.			
To provide the st Brief outline of t Concepts, hypo algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. J M. J. Kearns, U. London, 1994. Course language Notes: Course assessme	udents basic ki the course: theses, learnin sjunctions. Pro ly approximate and learning al iterature: Biggs: Comput V. Vazirani: An e: ent	algorithms. E babilistic learning ly correct (PAC) l gorithms. ational Learning n Introduction to	Boolean formula g, consistent algo learning, Occam Theory, Cambrid	e and represent prithms and learn algorithms, Vapr ge University Pr	tation, learning ability, efficien nik-Cervonenki ress, 1991.			
To provide the st Brief outline of t Concepts, hypo- algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. I M. J. Kearns, U. London, 1994. Course language Notes: Course assessme Total number of	udents basic ki the course: theses, learnin sjunctions. Pro ly approximate and learning al iterature: Biggs: Comput V. Vazirani: An e: ent assessed studen	ng algorithms. E babilistic learning ly correct (PAC) I gorithms. rational Learning n Introduction to nts: 157	Boolean formula g, consistent algo learning, Occam Theory, Cambrid Computational L	e and represent orithms and learn algorithms, Vapr ge University Pr earning Theory,	tation, learnin, ability, efficien nik-Cervonenki ress, 1991. MIT Press			
To provide the st Brief outline of t Concepts, hypo- algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. I M. J. Kearns, U. London, 1994. Course language Notes: Course assessme Total number of A 12.1	udents basic kr the course: theses, learnin sjunctions. Pro ly approximate and learning al iterature: Biggs: Comput V. Vazirani: Ar e: ent assessed studen B 16.56	ng algorithms. E babilistic learning ly correct (PAC) I gorithms. ational Learning n Introduction to nts: 157 C	D 15.92	e and represent orithms and learn algorithms, Vapr ge University Pr earning Theory, E	tation, learnin, ability, efficien nik-Cervonenki ress, 1991. MIT Press FX			
To provide the st Brief outline of t Concepts, hypo- algorithms for di learning, probabl (VC) dimension Recommended I M. Anthony, N. I M. J. Kearns, U. London, 1994. Course language Notes: Course assessme Total number of A 12.1	udents basic kr the course: theses, learnin sjunctions. Pro ly approximate and learning al iterature: Biggs: Comput V. Vazirani: Ar e: ent assessed studen B 16.56 NDr. Gabriela	ng algorithms. E babilistic learning ly correct (PAC) I gorithms. ational Learning n Introduction to nts: 157 C 23.57 Andrejková, CSc	D 15.92	e and represent orithms and learn algorithms, Vapr ge University Pr earning Theory, E	tation, learnin, ability, efficien nik-Cervonenki ress, 1991. MIT Press FX			

University: P. J. Š	afárik Univers	sity in Košice			
Faculty: Faculty c	of Science				
Course ID: ÚINF. ARP1/05	/ Course na	ame: Computer a	rchitecture		
Course type, scop Course type: Lea Recommended of Per week: 2 / 1 F Course method:	cture / Practice course-load (h Per study peri	e ours):			
Number of credit	s: 4				
Recommended se	mester/trimes	ster of the course	e: 4., 6.		
Course level: I., I	I				
Prerequisities:					
Conditions for co Oral examination,		on:			
Learning outcom To provide the stu		nowledge of basi	c principles of co	omputer architect	ure.
Milestones in com the implementation organization, RAM The microarchited architecture level, cache memory. I/0 system kernel, dev Recommended lite	on of floating Ms and ROMs cture level, m data types, add O controllers, vice-independe	point arithmetic. . Digital logic lev icroinstructions a dressing modes, in ports, interrupts, ent software.	Combinatorial a vel architecture, c and microinstruct instruction types. I direct memory a	and sequential ci lata path timing, ion control. The instruction execut ccess. Device dr	rcuits, memory machine cycle. instruction set tion, pipelining,
A. S. Tanenbaum: W. Stallings: Com J. Blieberger, G. H	nputer Organiz	ation and Archite	cture, 4.ed., Pren	tice-Hall, 1996	1990
Course language:					
Notes:					
Course assessmer Total number of a		ıts: 49			
А	В	C	D	Е	FX
16.33	20.41	20.41	22.45	20.41	0.0
I			I		0.0
Provides: doc. RN	IDr. Jozef Jirás	sek, PhD.			0.0
Provides: doc. RN Date of last modif					0.0

University: P. J.	Šafárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚIN EIP/01	F/ Course name: Computer systems and networks							
Course type, sco Course type: Recommended Per week: Per Course method	course-load (h study period:							
Number of cred	its: 0							
Recommended s	semester/trimes	ster of the cours	e:					
Course level: II.								
Prerequisities: (ÚINF/ARP1/05 a	and (ÚINF/PDS1	/03 or ÚINF/KP	11/01 or ÚINF/C	OPS1/11)			
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		ts: 13						
А	В	С	D	Е	FX			
15.38	30.77	30.77	23.08	0.0	0.0			
Provides:								
Date of last mod	lification: 03.02	2.2014						
Approved: prof.	RNDr. Viliam (Geffert, DrSc.						

University: P. J. S	Safárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚINF KRP1/06	D: ÚINF/ Course name: Cryptographic protocols							
Course type, sco Course type: Le Recommended Per week: 2 / 1 Course method	cture / Practice course-load (h Per study perio	ours):						
Number of credi	ts: 4							
Recommended se	emester/trimes	ter of the cours	e: 3.					
Course level: II.								
Prerequisities:								
Conditions for co written test	ourse completi	on:						
Learning outcom to acquire knowle		and verifying of	cryptographic p	rotocols				
Brief outline of t Authentication ar key agreement pr	nd key establish	•						
Recommended li 1. Colin Boyd, A 2003 2. Douglas R. Sti 2006 3. Bruce Schneier John Wiley & So 4. Peter Ryan, Sta 2001	nish Mathuria: nson: Cryptogr r: Applied Cryp ns Inc., 1996	aphy: Theory an otography, Secon	d Practice, Third d Edition,		in & Hall/CRC,			
Course language	:							
Notes:								
Course assessme Total number of a		ts: 39						
A	В	С	D	E	FX			
33.33	12.82	7.69	15.38	30.77	0.0			
Provides: doc. R	NDr. Jozef Jirás	sek, PhD.		·				
Date of last modi	fication: 03.02	2.2014						
Approved: prof.	RNDr. Viliam (Geffert, DrSc.						

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science			_	
Course ID: ÚINF/ KRS/13	Course na	ame: Cryptograp	hic systems and	their applications	
Course type, scop Course type: Lec Recommended co Per week: 3 / 2 P Course method:	eture / Practice ourse-load (h er study peri	ours):			
Number of credits	s: 6				
Recommended ser	mester/trimes	ster of the cours	e: 1.		
Course level: I., II					
Prerequisities:					
Conditions for con	urse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as	-	ts: 84			
A	В	С	D	Е	FX
13.1	10.71	9.52	11.9	34.52	20.24
Provides: doc. RN	Dr. Jozef Jirás	sek, PhD., RNDr.	Rastislav Krivo	š-Belluš, PhD.	
Date of last modif	ication: 03.02	2.2014			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

University: P. J. Š	afárik Univers	ity in Košice				
Faculty: Faculty of	of Science					
Course ID: ÚINF ODPA/01	JINF/ Course name: Defence of diploma thesis					
Course type, scop Course type: Recommended c Per week: Per s Course method:	course-load (h tudy period:					
Number of credit	s: 0					
Recommended se	mester/trimes	ster of the cours	e:			
Course level: II.						
Prerequisities: Úl	NF/DPITc/06					
Conditions for co	urse completi	on:				
Learning outcom	es:					
Brief outline of th	ne course:					
Recommended lit	terature:					
Course language:						
Notes:						
Course assessmer Total number of a		ts: 84				
A	В	С	D	Е	FX	
28.57 22.62 17.86 20.24 9.52 1.19						
Provides:						
Date of last modi	fication: 03.02	2.2014				
Approved: prof. F	RNDr. Viliam (Geffert, DrSc.				

University: P. J.	Šafárik Univer	sity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚIN TDB1/06	F/ Course n	ame: Developme	ent of web-orient	ed database appl	ications
Course type, sco Course type: P Recommended Per week: 2 Pe Course method	ractice course-load (r study period	hours):			
Number of cred	its: 2				
Recommended s	semester/trime	ester of the cours	e: 4., 6.		
Course level: II.					
Prerequisities:					
Conditions for c Work on a proje Presentation of a	ct.	tion:			
Learning outcome Students will kr applications.		basic ideas and t	echniques for de	eveloping databa	se oriented web
Entity data mode and EntityCollec II. Web compor	ents. ADO.NE els: Code-First, etion. nents. HTML :	T architecture: .N Model-First, Dat 5, JavaScript, jQ roller - actions, na	abase-First - DbC uery. ASP.NET,	Context, DbMode Web Forms, We	elBuilder, DbSet eb Pages. MVC
[2] D. Esposito,	Pro ASP.NET Programming D Microsoft ADC	MVC 4, Apress, 2 Microsoft ASP.NI).NET Entity Fran c5	ET MVC, 3rd Ed	,	,
Course languag	e:				
Notes:					
Course assessme Total number of		nts: 83			
А	В	С	D	E	FX
74.7	4.82	12.05	1.2	4.82	2.41
Provides: doc. R	NDr. Csaba Tö	örök, CSc., doc. R	NDr. Gabriel Se	manišin, PhD.	<u>.</u>
Date of last mod	lification: 03.0	2.2014			

University: P. J. Ša	ıfárik Universi	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: ÚINF/ DPITa/06	Course na	me: Diploma th	esis in information	cs	
Course type, scope Course type: Prac Recommended co Per week: 4 Per s Course method: p	ctice ourse-load (he study period:	ours):			
Number of credits	:4				
Recommended ser	nester/trimes	ter of the cours	e: 4.		
Course level: II.					
Prerequisities:					
Conditions for cou	irse completio	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessment Total number of as	-	s: 17			
A	В	С	D	Е	FX
58.82	29.41	5.88	0.0	5.88	0.0
Provides: prof. RN	Dr. Viliam Ge	effert, DrSc.			
Date of last modifi	ication: 03.02	.2014			
Approved: prof. R	NDr. Viliam C	Geffert, DrSc.			

University: P. J. Ša	fárik Univers	ity in Košice				
Faculty: Faculty of	Science					
Course ID: ÚINF/ DPITb/06						
Course type, scope Course type: Prac Recommended co Per week: 6 Per st Course method: p	tice urse-load (h tudy period:	ours):				
Number of credits:	6					
Recommended sen	nester/trimes	ster of the course	e: 5.			
Course level: II.						
Prerequisities: ÚIN	F/DPITa/06	or ÚINF/DPITa/	14			
Conditions for cou	rse completi	on:				
Learning outcomes	5:					
Brief outline of the	course:					
Recommended lite	rature:					
Course language:						
Notes:						
Course assessment Total number of ass		ts: 19				
A	В	С	D	Е	FX	
78.95	5.26	5.26	5.26	5.26	0.0	
Provides: prof. RN	Dr. Viliam Ge	effert, DrSc.		·		
Date of last modified	cation: 03.02	2.2014				
Approved: prof. RN	NDr. Viliam (Geffert, DrSc.				

University: P. J. Ša	fárik Univers	ity in Košice				
Faculty: Faculty of	f Science					
Course ID: ÚINF/ Course name: Diploma thesis in informatics DPITc/06						
Course type, scope Course type: Lec Recommended co Per week: Per st Course method:]	ture ourse-load (h udy period: 2	ours):				
Number of credits	: 28					
Recommended ser	nester/trimes	ster of the cours	e: 6.			
Course level: II.						
Prerequisities: ÚI	NF/DPITb/06					
Conditions for cou	ırse completi	on:				
Learning outcome	s:					
Brief outline of the	e course:					
Recommended lite	erature:					
Course language:						
Notes:						
Course assessmen Total number of as		ts: 10				
A	В	С	D	Е	FX	
60.0 10.0 20.0 0.0 10.0 0.0						
Provides: prof. RN	Dr. Viliam G	effert, DrSc.		·		
Date of last modifi	ication: 03.02	2.2014				
Approved: prof. R	NDr. Viliam (Geffert, DrSc.				

University: P. J.	Šafárik Univers	sity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN DOP1/09	D: ÚINF/ Course name: Distributive object programming						
Recommended	Lecture / Practico l course-load (h 2 Per study peri	e iours):					
Number of cred	lits: 3						
Recommended	semester/trime	ster of the course	e: 2., 4.				
Course level: I.,	, II.						
Prerequisities:							
Conditions for	course complet	ion:					
Learning outco Mastering the ba communicating	asics of distribut	ed and parallel pro	ogramming and	design of distribut	ted applications		
-	via messages. H	Endpoint: address		on. Service-orient ns and communic			
2002 - C.Campbell, R 2010 - J.Sharp, Wind	um, M.V. Steen: LJohnson, A.Mi ows Communica	ller, Parallel Prog	ramming with N 4 Step by Step, 9	and Paradigms, Pr Aicrosoft® .NET, O'Reilly, 2010 ference, O'Reilly,	Microsoft,		
Course languag	ge:						
Notes:							
Course assessm Total number of		nts: 13					
А	В	C	D	E	FX		
0.0	30.77	53.85	7.69	7.69	0.0		
Provides: doc. H	RNDr. Csaba Tö	rök, CSc.					
Date of last mo	dification: 03.02	2.2014					
Approved: prof	RNDr. Viliam	Geffert, DrSc.					
	,						

University: P. J. Ša	afárik Univers	ity in Košice				
Faculty: Faculty of	f Science					
Course ID: ÚINF/ VEP1/09	D: ÚINF/ Course name: Formal methods in a verification					
Course type, scope Course type: Lec Recommended co Per week: 2 / 1 P Course method: 1	ture / Practice ourse-load (h er study perio	ours):				
Number of credits	: 5					
Recommended ser	nester/trimes	ster of the cours	e: 4.			
Course level: II.						
Prerequisities:						
Conditions for cou	ırse completi	on:				
Learning outcome	es:					
Brief outline of the	e course:					
Recommended lite	erature:					
Course language:						
Notes:						
Course assessmen Total number of as	-	ts: 18				
A	В	С	D	Е	FX	
27.78	22.22	22.22	16.67	0.0	11.11	
Provides: doc. RN	Dr. Gabriela A	Andrejková, CSc.	, Mgr. Alexande	r Szabari, PhD.		
Date of last modif	ication: 03.02	2.2014				
Approved: prof. R	NDr. Viliam (Geffert, DrSc.				

University: P. J.	Šafárik Univers	ity in Košice					
Faculty: Faculty	of Science						
Course ID: ÚIN EIS/04	IF/ Course na	Course name: Formal models of computational processes					
Course type, sco Course type: Recommended Per week: Per Course method	l course-load (h • study period:						
Number of cred	lits: 0						
Recommended	semester/trimes	ster of the cours	e:				
Course level: II.	-						
Prerequisities: (ÚINF/NEU1/03	ÚINF/VYZ1/04 3 or ÚINF/KPI1/	and (ÚINF/SMI 01 or ÚINF/PDS	1/08 or ÚINF/TI 51/03 or ÚINF/K	K1/13) and ÚINF KV1/06)	5/APA1/09 and		
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 Sassessed studen	ts: 83					
А	В	С	D	E	FX		
15.66	15.66	18.07	16.87	31.33	2.41		
Provides:	,			·			
Date of last mo	dification: 03.02	2.2014					
Approved: prof.	. RNDr. Viliam (Geffert, DrSc.					

University: P. J. S	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚINF EIN/04	D: ÚINF/ Course name: Foundations of artificial intelligence					
Course type, scop Course type: Recommended Per week: Per s Course method:	- course-load (h study period:					
Number of credi	ts: 0					
Recommended so	emester/trimes	ster of the cours	e:			
Course level: II.						
Prerequisities: Ú	INF/VYU1/03	and (ÚINF/NEU	1/03 or ÚFV/N	OT1b/03)		
Conditions for co	ourse completi	on:				
Learning outcom	nes:					
Brief outline of t	he course:					
Recommended li	terature:					
Course language	•					
Notes:						
Course assessme Total number of a		ts: 18				
A	В	С	D	E	FX	
22.22 16.67 27.78 0.0 33.33 0.0						
Provides:				·		
Date of last modi	ification: 03.02	2.2014				
Approved: prof.	RNDr. Viliam (Geffert, DrSc.				

University: P. J. Ša	fárik Universi	y in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ ZNA1/06	Course na	ne: Foundatior	ns of knowledge	systems	
Course type, scope Course type: Lect Recommended co Per week: 2 / 1 Pe Course method: p	ure / Practice urse-load (ho er study perio	urs):			
Number of credits:	: 4				
Recommended sen	nester/trimest	er of the cours	se: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	n:			
Learning outcomes The	S:				
Brief outline of the S	course:				
Recommended lite Hedman S.: A first and complexity. Ox Nienhuys-Cheng Sl 1997 Nilsson U., Malusz Bělohlávek R.: Fuz Plenum Publishers, Ganter B., Wille R.	course in logi ford universit h.H., Wolf R.: ynski J.: Logi zy Relational New York, 20	y press, 2006 Foundations of c, Programming Systems: Found 002	f Inductive Logic g and Prolog, Joh dations and Princ	Programming, Sp n Wiley & Sons I siples. Kluwer, Ac	pringer-Verlag, Ltd. 1995 cademic/
Course language:					
Notes:					
Course assessment Total number of ass		s: 60			
Α	В	С	D	Е	FX
15.0	15.0	20.0	21.67	21.67	6.67
Provides: RNDr. O	ndrej Krídlo, l	hD.			
Date of last modifi	cation: 12.02.	2014			
Approved: prof. RN	NDr. Viliam G	effert, DrSc.			

University: P. J	. Šafárik Univer	sity in Košice					
Faculty: Facult	y of Science						
Course ID: ÚI ZNA1/14	ourse ID: ÚINF/ Course name: Foundations of knowledge systems IA1/14 IA1/14						
Course type:] Recommende	cope and the me Lecture / Practic d course-load (I 1 Per study per od: present	e hours):					
Number of cre							
Recommended	semester/trime	ester of the cours	e:				
Course level: I	[.			-			
Prerequisities:							
Conditions for	course complet	ion:					
in database and	each students sor l knowledge syst	me advanced appli ems.	cations of logic	into computer sci	ence, especially		
	ormal models D	BMS, SQL, and d probabilistic log		ning. Resolution,	deduction and		
computability a Shan-Hwei Nie Springer-Verlag Kristian Kerstin	n. A first course and complexity. (enhuys-Cheng, R g, ISBN 3-540-6	Logic Programm	press, ISBN 0–2 oundations of Ind	19–852980–5, 20 ductive Logic Pro	06. ogramming.		
Course langua	ge:						
Notes:							
Course assessn Total number o	nent f assessed stude	nts: 60					
А	В	C	D	E	FX		
A 15.0	B 15.0	20.0	21.67	E 21.67	FX 6.67		
15.0		20.0					
15.0 Provides: RND	15.0	20.0 , PhD.					

/					
Faculty: Faculty	of Science				
Course ID: ÚINF FUN1/14	F/ Course name: Functional programming				
Course type, sco Course type: Le Recommended Per week: 2 / 2 Course method	ecture / Practice course-load (he Per study perio	ours):			
Number of credi	ts: 4				
Recommended s	emester/trimes	ster of the cours	se: 1.		
Course level: I., I	II.				
Prerequisities: Ú	VINF/PAZ1c/03				
Conditions for co	ourse completi	on:			
To learn bases of			1	1	1 00
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree	he course: inctional progra of view. Properti eture of the langues	amming. Lambies of functional	programming la	n the functiona nguages. Program	nming language
Brief outline of t Principles of fu languages point of Haskell: the struc	the course: Inctional prograte of view. Propertic ture of the langues iterature: LER, P.: Introdu	amming. Lamb ies of functional uage and basic co uction to Functio	da calculus from programming la computational rule nal Programming	n the functiona nguages. Program e, basic data types g. Prentice Hall In	nming language s, lists, recursion nternational,
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree Recommended li BIRD, R., WADI 1988. LIPOVAČA, M.:	he course: Inctional progra of view. Properti- eture of the langu- ees iterature: LER, P.: Introdu Learn You Has	amming. Lamb ies of functional uage and basic co uction to Functio	da calculus from programming la computational rule nal Programming	n the functiona nguages. Program e, basic data types g. Prentice Hall In	nming language s, lists, recursion nternational,
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree Recommended li BIRD, R., WADI 1988.	he course: Inctional progra of view. Properti- eture of the langu- ees iterature: LER, P.: Introdu Learn You Has	amming. Lamb ies of functional uage and basic co uction to Functio	da calculus from programming la computational rule nal Programming	n the functiona nguages. Program e, basic data types g. Prentice Hall In	nming language s, lists, recursion nternational,
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree Recommended li BIRD, R., WADI 1988. LIPOVAČA, M.: Course language	he course: Inctional prograte of view. Properties ture of the langues iterature: LER, P.: Introdue Learn You Has ::	amming. Lamb ies of functional uage and basic co action to Functionskell for Great G	da calculus from programming la computational rule nal Programming	n the functiona nguages. Program e, basic data types g. Prentice Hall In	nming language s, lists, recursion nternational,
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree Recommended li BIRD, R., WADI 1988. LIPOVAČA, M.: Course language Notes: Course assessme	he course: Inctional prograte of view. Properties ture of the langues iterature: LER, P.: Introdue Learn You Has ::	amming. Lamb ies of functional uage and basic co action to Functionskell for Great G	da calculus from programming la computational rule nal Programming	n the functiona nguages. Program e, basic data types g. Prentice Hall In	nming language s, lists, recursion nternational,
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree Recommended li BIRD, R., WADI 1988. LIPOVAČA, M.: Course language Notes: Course assessme Total number of a	he course: Inctional progration of view. Properti- eture of the langu- ees iterature: LER, P.: Introdu- Learn You Has ::	amming. Lamb ies of functional uage and basic co action to Functionskell for Great G	da calculus from programming la omputational rule nal Programming ood!. Free from 1	n the functiona nguages. Program e, basic data types g. Prentice Hall In http://learnyouah	nming languages, lists, recursion nternational, askell.com/
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree Recommended li BIRD, R., WADI 1988. LIPOVAČA, M.: Course language Notes: Course assessme Total number of a A 75.0	he course: inctional progration of view. Properti- cture of the langu- ees iterature: LER, P.: Introdu- Learn You Has : ent assessed student B 25.0	amming. Lambuies of functional uage and basic controls action to Function skell for Great G ts: 4 C 0.0	da calculus from programming la omputational rule nal Programming ood!. Free from	n the functiona nguages. Program e, basic data types g. Prentice Hall In http://learnyouah	nming languag s, lists, recursion nternational, askell.com/
Brief outline of t Principles of fu languages point of Haskell: the struct and induction, tree Recommended li BIRD, R., WADI 1988. LIPOVAČA, M.: Course language Notes: Course assessme Total number of a A	he course: inctional progra of view. Properti- cture of the langu- ees iterature: LER, P.: Introdu Learn You Has : ent assessed student B 25.0 g. Štefánia Gall	amming. Lambuies of functional uage and basic controls for the function skell for Great G ts: 4 C 0.0 lová, CSc.	da calculus from programming la omputational rule nal Programming ood!. Free from	n the functiona nguages. Program e, basic data types g. Prentice Hall In http://learnyouah	nming languages, lists, recursion nternational, askell.com/

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: KFa DF2p/03	DF/ Course na	me: History of I	Philosophy 2 (Ge	eneral Introduction	on)
Course type, sco Course type: L Recommended Per week: 2 / 1 Course method	ecture / Practice course-load (h Per study perio	ours):			
Number of cred	its: 4				
Recommended s	semester/trimes	ster of the cours	e: 2.		
Course level: I.,	II.				
Prerequisities:					
Conditions for c	ourse completi	on:			
Learning outcor	nes:				
Brief outline of t	the course:				
Recommended l	iterature:				
Course language	e:				
Notes:					
Course assessme Total number of		ts: 729			
A	В	С	D	Е	FX
60.49	13.85	12.76	8.78	3.43	0.69
Provides: doc. P. Mayerová, PhD.,		· · 1	f., Doc. PhDr. P	eter Nezník, CSc	., PhDr. Katarín
Date of last mod	lification: 26.01	.2014			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

University: P. J. Šafár	ik University	in Košice			
Faculty: Faculty of Sc	ience				
Course ID: R UPJŠ/ IB10/14	Course ID: R UPJŠ/ Course name: IB10 - Medzinárodný certifikát ECo-C B10/14				
Course type, scope an Course type: Recommended cour Per week: Per study Course method: pres	se-load (hour / period:				
Number of credits: 1	6				
Recommended semes	ter/trimester	of the course:			
Course level: I., I.II.,	[I				
Prerequisities:					
Conditions for course	completion:				
Learning outcomes:					
Brief outline of the co	ourse:				
Recommended litera	ture:				
Course language:					
Notes:					
Course assessment Total number of asses	sed students: ()			
abs	abs n neabs				
0.0 0.0 0.0					
Provides:	1				
Date of last modificat	ion: 11.08.20	14			
Approved: prof. RND	r. Viliam Geff	ert, DrSc.			

University: P. J. Šafárik	Jniversity in Košice					
Faculty: Faculty of Scien	ce					
Course ID: R UPJŠ/ Co IB11/14	Course ID: R UPJŠ/ Course name: IB11 - Medzinárodný certifikát ECDL B11/14					
Course type, scope and t Course type: Recommended course- Per week: Per study po Course method: presen	load (hours): eriod:					
Number of credits: 14						
Recommended semester	/trimester of the course:					
Course level: I., I.II., II.						
Prerequisities:						
Conditions for course co	mpletion:					
Learning outcomes:						
Brief outline of the cour	se:					
Recommended literatur	e:					
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. V	/iliam Geffert, DrSc.					

University: P. J. Šafárik Univers	sity in Košice			
Faculty: Faculty of Science				
Course ID: R UPJŠ/ Course na IB12/14	ame: IB12 - Používanie, admin	nistrácia a vývoj v systéme SAP		
Course type, scope and the me Course type: Recommended course-load (h Per week: Per study period: Course method: present				
Number of credits: 54				
Recommended semester/trime	ster of the course:			
Course level: I., I.II., II.				
Prerequisities:				
Conditions for course complete	ion:			
Learning outcomes:				
Brief outline of the course:				
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of assessed studer	its: 0			
abs	n	neabs		
0.0 0.0 0.0				
Provides:	1			
Date of last modification: 11.08	3.2014			
Approved: prof. RNDr. Viliam	Geffert, DrSc.			

University: P. J. Šafár	ik Universi	ty in Košice			
Faculty: Faculty of So	eience				
Course ID: R UPJŠ/ Course name: IB1 - Etika v biomedicínskych vedách pre zdravotnícku praz B1/14					
Course type, scope an Course type: Recommended cour Per week: Per study Course method: pres	se-load (ho y period:				
Number of credits: 1					
Recommended semes	ter/trimest	ter of the course:			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for course	e completio	on:			
Learning outcomes:					
Brief outline of the co	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:	I		·		
Date of last modificat	t ion: 11.08.	2014			
Approved: prof. RND	r. Viliam G	effert, DrSc.			

University: P. J. Šafárik Univers	sity in Košice				
Faculty: Faculty of Science					
Course ID: R UPJŠ/ Course name: IB2 - Právne minimum – súkromnoprávne aspekty B2/14					
Course type, scope and the me Course type: Recommended course-load (h Per week: Per study period: Course method: present					
Number of credits: 16					
Recommended semester/trime	ster of the course:				
Course level: I., I.II., II.					
Prerequisities:					
Conditions for course complet	ion:				
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed studer	nts: 0				
abs	abs n neabs				
0.0 0.0 0.0					
Provides:					
Date of last modification: 11.08	8.2014				
Approved: prof. RNDr. Viliam	Geffert, DrSc.				

University: P. J. Šafárik	University in Košice				
Faculty: Faculty of Scier	ce				
Course ID: R UPJŠ/ Course name: IB3 - Právne minimum – verejnoprávne aspekty B3/14					
Course type, scope and Course type: Recommended course- Per week: Per study p Course method: presen	load (hours): eriod:				
Number of credits: 16					
Recommended semester	/trimester of the course:				
Course level: I., I.II., II.					
Prerequisities:					
Conditions for course co	ompletion:				
Learning outcomes:					
Brief outline of the cour	se:				
Recommended literatur	e:				
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. V	/iliam Geffert, DrSc.				

University: P. J. Šafáril	University in Košice			
Faculty: Faculty of Sci	ence			
Course ID: R UPJŠ/ C IB4/14	Course name: IB4 - Pr	ojektový mana	žment	
Course type, scope and Course type: Recommended cours Per week: Per study Course method: prese	e-load (hours): period:			
Number of credits: 20				
Recommended semest	er/trimester of the co	urse:		
Course level: I., I.II., I	•			
Prerequisities:				
Conditions for course	completion:			
Learning outcomes:				
Brief outline of the cou	irse:			
Recommended literatu	ire:			
Course language:				
Notes:				
Course assessment Total number of assess	ed students: 0			
abs n neabs				
0.0 0.0 0.0				
Provides:	·			
Date of last modificati	on: 11.08.2014			
Approved: prof. RNDr	Viliam Geffert, DrSc			

University: P. J. Šafári	k University	in Košice		
Faculty: Faculty of Sc	ience			
Course ID: R UPJŠ/ IB5/14	Course nam	e: IB5 - Manažérska ekono	mika	
Course type, scope an Course type: Recommended cours Per week: Per study Course method: pres	e-load (hou period:			
Number of credits: 16				
Recommended semes	ter/trimeste	r of the course:		
Course level: I., I.II., I	I.			
Prerequisities:				
Conditions for course	completion	:		
Learning outcomes:				
Brief outline of the co	urse:			
Recommended literat	ure:			
Course language:				
Notes:				
Course assessment Total number of assess	sed students:	0		
abs n neabs				
0.0 0.0 0.0				
Provides:			·	
Date of last modificat	ion: 11.08.20	014		
Approved: prof. RND	r. Viliam Get	ffert, DrSc.		

University: P. J. Šafár	rik University i	n 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 B6/14 praxi				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours y period:				
Number of credits: 1	6				
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: (
abs		n	neabs		
0.0 0.0 0.0					
Provides:	I		•		
Date of last modifica	tion: 11.08.20	14			
Approved: prof. RNI	Dr. Viliam Geff	ert, DrSc.			

University: P. J. Šafár	ik University in Ko	šice		
Faculty: Faculty of Sc	ience			
Course ID: R UPJŠ/ IB7/14	Course name: IB7	' - Štatistika pre prax		
Course type, scope ar Course type: Recommended cour Per week: Per study Course method: pres	se-load (hours): / period:			
Number of credits: 10				
Recommended semes	ter/trimester of th	e course:		
Course level: I., I.II.,	II			
Prerequisities:				
Conditions for course	e completion:			
Learning outcomes:				
Brief outline of the co	ourse:			
Recommended literat	ture:			
Course language:				
Notes:				
Course assessment Total number of asses	sed students: 0			
abs		n	neabs	
0.0		0.0	0.0	
Provides:				
Date of last modificat	ion: 11.08.2014			
Approved: prof. RND	r. Viliam Geffert, I	DrSc.		

University: P. J. Šafár	ik University in	n Košice	
Faculty: Faculty of Sc	eience		
Course ID: R UPJŠ/ IB8/14	Course name:	IB8 - Environmentálne	aspekty záťaže životného prostredia
Course type, scope an Course type: Recommended cour Per week: Per study Course method: pres	se-load (hours y period:		
Number of credits: 1	5		
Recommended semes	ter/trimester o	of the course:	
Course level: I., I.II.,	II.		
Prerequisities:			
Conditions for course	e completion:		
Learning outcomes:			
Brief outline of the co	ourse:		
Recommended litera	ture:		
Course language:			
Notes:			
Course assessment Total number of asses	sed students: 0		
abs		n	neabs
0.0		0.0	0.0
Provides:			· · ·
Date of last modificat	tion: 11.08.201	4	
Approved: prof. RND	r. Viliam Geffe	ert, DrSc.	

University: P. J. Šafárik Un	versity in Košice	
Faculty: Faculty of Science		
Course ID: R UPJŠ/ Cours IB9/14	se name: IB9 - Medzinárodný cer	tifikát TOEFL
Course type, scope and the Course type: Recommended course-loa Per week: Per study peri Course method: present	d (hours):	
Number of credits: 17		
Recommended semester/tr	imester of the course:	
Course level: I., I.II., II.		
Prerequisities:		
Conditions for course com	pletion:	
Learning outcomes:		
Brief outline of the course:		
Recommended literature:		
Course language:		
Notes:		
Course assessment Total number of assessed st	udents: 0	
abs	n	neabs
0.0	0.0	0.0
Provides:	•	
Date of last modification:	1.08.2014	
Approved: prof. RNDr. Vili	am Geffert, DrSc.	

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ ANO/07	Course na	me: Image analy	vsis		
Course type, scope Course type: Lec Recommended co Per week: 2 / 2 Po Course method: 1	ture / Practice ourse-load (h er study perio	ours):			
Number of credits	: 4				
Recommended ser	nester/trimes	ter of the course	e: 3., 5.		
Course level: I., II.					
Prerequisities:					
Conditions for cou	irse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessment Total number of as		ts: 5			
А	В	С	D	Е	FX
20.0	0.0	40.0	0.0	40.0	0.0
Provides: doc. Ing.	Zoltán Tomo	ri, CSc., Ing. Rad	loslav Gargalík	·	
Date of last modifi	cation: 03.02	.2014			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.		-	

University: P. J. Šar	fárik Univers	ity in Košice				
Faculty: Faculty of	Science					
Course ID: ÚINF/ EIM/08	F/ Course name: Informatics for medicine					
Course type, scope Course type: Recommended co Per week: Per stu Course method: p	urse-load (h ıdy period:					
Number of credits:	0					
Recommended sem	nester/trimes	ter of the cours	e:			
Course level: II.						
Prerequisities: ÚIN	F/MIN2/08 a	and (ÚINF/ANO	/07 or ÚINF/SP	G1/05)		
Conditions for cou	rse completi	on:				
Learning outcomes	s:					
Brief outline of the	course:					
Recommended lite	rature:					
Course language:						
Notes:						
Course assessment Total number of ass		ts: 0				
A	В	С	D	Е	FX	
0.0	0.0	0.0	0.0	0.0	0.0	
Provides:				1		
Date of last modified	cation: 03.02	.2014				
Approved: prof. RN	NDr. Viliam (Geffert, DrSc.				

University: P. J.	Šafárik Univers	sity in Košice					
Faculty: Faculty	y of Science						
Course ID: ÚIN MIN1/06	NF/ Course n	F/ Course name: Informatics for medicine					
	Practice I course-load (h er study period	ours):					
Number of crea	lits: 2						
Recommended	semester/trime	ster of the cours	e: 1., 3., 5.				
Course level: I.	, II.						
Prerequisities:							
Conditions for Oral and writter	-	ion:					
-	pplication of con	nputer science in elevant domain.	medicine doma	in with emphasis	on the specific		
MS .NET, C#, used software to RationalRose, F	opment go me C++. Developm ools: RequisitePro, UI	dicine domain (1 ent based on so- TA, Caliber, Clea to CMMI metho	called "V" deve rCase. Quality a	lopment model.	An overview of		
Recommended http://www.syng http://www.sien	go.com						
Course languag	ge:						
Notes:							
Course assessm	ent f assessed studer	nts: 68					
Course assessm		nts: 68	D	E	FX		
Course assessm Total number of	f assessed studer		D 0.0	E 0.0	FX 0.0		
Course assessm Total number of A 75.0	B 25.0	C 0.0					
Course assessm Total number of A	f assessed studer B 25.0 ng. Norbert Kop	C 0.0 Dčo, PhD.					

University: P. J. Ša	fárik Univers	ity in Košice			
Faculty: Faculty of	f Science				
Course ID: ÚINF/ MIN2/08	Course na	me: Informatics	for medicine		
Course type, scope Course type: Lec Recommended co Per week: 2 Per s Course method: 1	ture ourse-load (h study period:	ours):			
Number of credits	: 3				
Recommended ser	nester/trimes	ster of the cours	e: 2., 4.		
Course level: I., II.					
Prerequisities: ÚI	NF/MIN1/06				
Conditions for cou	ırse completi	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as		ts: 20			
A	В	С	D	Е	FX
80.0	10.0	0.0	0.0	10.0	0.0
Provides: doc. Ing.	Norbert Kop	čo, PhD.		·	
Date of last modifi	ication: 03.02	2.2014			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

University: P. J. S	Šafárik Univers	ity in Košice				
Faculty: Faculty	of Science					
Course ID: ÚINE EIL/04	Course name: Information and knowledge systems					
Course type, sco Course type: Recommended Per week: Per s Course method	course-load (h study period:					
Number of credi	ts: 0					
Recommended se	emester/trimes	ter of the cours	e:			
Course level: II.						
Prerequisities: Ú	INF/LAD1/06	and (ÚINF/VYU	1/03 or ÚINF/A	IS1/01)		
Conditions for co	ourse completi	on:				
Learning outcom	nes:					
Brief outline of t	he course:					
Recommended li	iterature:					
Course language						
Notes:						
Course assessme Total number of a		ts: 30				
A	В	С	D	Е	FX	
30.0	16.67	16.67	16.67	13.33	6.67	
Provides:				·4		
Date of last mod	ification: 03.02	.2014				
Approved: prof.	RNDr. Viliam (Geffert, DrSc.				

Fooultry Fooult					
v y	of Science				
Course ID: ÚIN AIS1/01	F/ Course na	me: Information	systems archite	cture	
Recommended	ecture / Practice course-load (he Per study perio	ours):			
Number of cred	its: 4				
Recommended s	semester/trimes	ter of the cours	e: 4.		
Course level: II.					
Prerequisities:					
Conditions for c Work on project Written and oral		on:			
1	overview of the		•	mation system de	1
model of the arc life cycle based	tion system, info chitecture of an i on MDA. Mod c. Entity types. F	nformation syste lel, metamodel, Relationship type	em. Introduction modelling langues. Cardinality c	tion of informatic to MDA, softwa uage. Model tran constraints. Integres.	re development sformation and
Recommended					
 http://www.or Ian Sommerva 	l iterature: ng.org ille, Software En be, Wim Bast, Jo v 2003	s B Warmer, MI	DA Explained, th	5 le Model Driven A	Architecture,
 http://www.or Ian Sommerve Anneke Klepp Addison-Wesley Scott Berkun, 	literature: ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj	s B Warmer, MI	DA Explained, th		Architecture,
 http://www.or Ian Sommerve Anneke Klepp Addison-Wesley Scott Berkun, 	literature: ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj	s B Warmer, MI	DA Explained, th		Architecture,
 http://www.or Ian Sommerve Anneke Klepp Addison-Wesley Scott Berkun, Course languag Notes: 	literature: ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj e:	s B Warmer, MI	DA Explained, th		Architecture,
 http://www.or Ian Sommerve Anneke Klepp Addison-Wesley Scott Berkun, Course languag Notes: Course assessme 	literature: ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj e:	s B Warmer, MI	DA Explained, th		Architecture,
 http://www.or Ian Sommervy Anneke Klepp Addison-Wesley Scott Berkun, Course languag Notes: Course assessment 	literature: ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj e: ent assessed student	s B Warmer, MI ect Management	DA Explained, th	e Model Driven A	
 http://www.or Ian Sommervy Anneke Klepp Addison-Wesley Scott Berkun, Course languag Notes: Course assessment Total number of A 	literature: ng.org ille, Software En be, Wim Bast, Jo 2003 The Art Of Proj e: ent assessed student B 30.91	s B Warmer, MI ect Management ss: 165 C 25.45	DA Explained, th c, O Reilly 2005	E E	FX

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. Ša	fárik Universi	ty in Košice			
Faculty: Faculty of	Science				
Course ID: ÚINF/ TIK1/13	Course na	me: Information	n theory, encodin	g	
Course type, scope Course type: Lect Recommended co Per week: 2 / 1 Po Course method: p	ture / Practice ourse-load (ho er study perio	ours):			
Number of credits	: 4				
Recommended sen	nester/trimes	ter of the cours	e: 4.		
Course level: II.					
Prerequisities:					
Conditions for cou	rse completio	on:			
Learning outcome	s:				
Brief outline of the	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessment Total number of as		s: 0			
A	В	С	D	Е	FX
0.0	0.0	0.0	0.0	0.0	0.0
Provides: doc. RNI	Dr. Stanislav H	Krajči, PhD.			
Date of last modifi	cation: 03.02	.2014			
Approved: prof. R	NDr. Viliam C	effert, DrSc.			

	COURSE INFORMATION LETTER
University: P. J. Šafa	árik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚINF/ UUI1/06	Course name: Introduction to artificial intelligence
Course type, scope a Course type: Lectu Recommended cou Per week: 2 Per stu Course method: pu	ure urse-load (hours): udy period: 28
Number of credits:	3
Recommended sem	ester/trimester of the course: 2., 4., 6.
Course level: II.	
Prerequisities:	
Conditions for cour home work and writ final exam	1
•	: rse is to achieve basic information about artificial intelligence techniques. For le to study more deeply from literature, if needed.
representation in AI informed versus info iterative enhanceme constraint logic pro- described objects rec and describtion, ob knowledge systems	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, nt algorithms, problem solving by decomposition. Planning and scheduling, ogramming, machine learning, computer vision - image recognition (flag cognition, structural scene analysis), image preprocessing, image representation oject 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.
2002, ISBN: 013790 Negnevitsky Michae	P: Artificial Intelligence: A Modern Approach (2nd Edition), Prentice Hall,

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.]	Provides: doc. Ing. Štefánia Gallová, CSc.										
Date of last modification: 03.02.2014											
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.			Approved: prof. RNDr. Viliam Geffert, DrSc.						

University: P. J. Š	afárik Univers	sity in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚINF UGR1/04	/ Course na	ame: Introductio	n to computer gra	aphics	
Course type, scop Course type: Lee Recommended o Per week: 2 / 1 H Course method:	cture / Practice course-load (h Per study peri	e ours):			
Number of credit	s: 5				
Recommended se	emester/trimes	ster of the cours	e: 1.		
Course level: I., I	I.				
Prerequisities:					
Conditions for co	ourse completi	ion:			
Learning outcom To provide the stu graphics.		owledge of grap	hics algorithms a	and basic princip	les of computer
Brief outline of the Graphics hardward drawing 2D prime spline forms, Béz perspective and p Rendering technic computer animation	e, input and ou itives. Filling a ier curves, B-s parallel projec ques, photore	and clipping. Cur plines, surfaces. ctions. Visible-su calism, textures,	rve modeling, int Homogenous coo Irface determina	terpolations and a ordinates, affine t tion, illuminatio	approximations, ransformations, n and shading.
Recommended lit FOLEY, J. D., var Practice, Addison MORTENSON, M	n DAM, A., FF -Wesley, 1991			er Graphics: Prir	ciples and
Course language:					
Notes:					
Course assessmen Total number of a		nts: 216			
Α	В	C	D	E	FX
13.43	7.87	12.5	24.07	32.41	9.72
Provides: RNDr. 1	Rastislav Krive	oš-Belluš, PhD.		·	
Date of last modi	fication: 03.02	2.2014			

		sity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚIN UNS1/04	VF/ Course n	ame: Introductio	n to neural netwo	orks	
Recommended	Lecture / Practic 1 course-load (l 1 Per study per	e hours):			
Number of crea	lits: 5				
Recommended	semester/trime	ester of the cours	se: 1.		
Course level: I.	, II.				
Prerequisities:					
Conditions for	course complet	tion:			
Learning outco To understand a with software for	and to know app	olications of basic ok models.	paradigms of ne	eural networks. To	o learn working
Brief outline of Basic models of	of computationa	al units - neuror	`	0 1 2	
Brief outline of Basic models of gates, perceptro networks, back	of computationans), their compu- propagation alg	al units - neuror utational capabilit gorithm. Hopfiel roblems. Genetic	y, algorithms of a neural network	adaptations. Feed s. ART neural n	-forward neura
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991	of computationa ons), their compu- propagation algorithms to solving of pr literature: gh, R.G. Palmer	utational capabilit gorithm. Hopfiel	ty, algorithms of a d neural network and evolution algorithms the theory of neu	adaptations. Feed as. ART neural n gorithms. ral computation,	-forward neura hetworks. Using Addison
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991 HASSOUN, M.	of computationa ons), their compu- propagation algorized to sto solving of pr literature: gh, R.G. Palmer . H.: Fundament	utational capabilit gorithm. Hopfield roblems. Genetic	ty, algorithms of a d neural network and evolution algorithms the theory of neu	adaptations. Feed as. ART neural n gorithms. ral computation,	-forward neura hetworks. Using Addison
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991	of computationa ons), their compu- propagation algorized to sto solving of pr literature: gh, R.G. Palmer . H.: Fundament	utational capabilit gorithm. Hopfield roblems. Genetic	ty, algorithms of a d neural network and evolution algorithms the theory of neu	adaptations. Feed as. ART neural n gorithms. ral computation,	-forward neura hetworks. Using Addison
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991 HASSOUN, M. Course languag	of computationa ns), their compu- propagation algo to solving of pr literature: gh, R.G. Palmer . H.: Fundament ge:	utational capabilit gorithm. Hopfiel roblems. Genetic :: Introduction to tals of artificial no	ty, algorithms of a d neural network and evolution algorithms the theory of neu	adaptations. Feed as. ART neural n gorithms. ral computation,	-forward neura hetworks. Using Addison
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991 HASSOUN, M. Course languag Notes: Course assessm	of computationa ns), their compu- propagation algo to solving of pr literature: gh, R.G. Palmer . H.: Fundament ge:	utational capabilit gorithm. Hopfiel roblems. Genetic :: Introduction to tals of artificial no	ty, algorithms of a d neural network and evolution algorithms the theory of neu	adaptations. Feed as. ART neural n gorithms. ral computation,	-forward neura hetworks. Using Addison
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991 HASSOUN, M. Course languag Notes: Course assessm Total number of	of computationa ons), their compu- propagation algos to solving of pr literature: gh, R.G. Palmer . H.: Fundament ge: tent f assessed studer	utational capabilit gorithm. Hopfiel roblems. Genetic T Introduction to tals of artificial no nts: 336	y, algorithms of a d neural network and evolution alg the theory of neu eural networks, T	adaptations. Feed s. ART neural n gorithms. ral computation, 'he MIT Press, 19	-forward neura letworks. Using Addison 095
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991 HASSOUN, M. Course languag Notes: Course assessm Total number of A 8.04	of computationa ns), their compu- propagation algos to solving of pro- literature: gh, R.G. Palmer . H.: Fundament ge: nent f assessed studer B 15.18	utational capabilit gorithm. Hopfield roblems. Genetic T Introduction to tals of artificial no nts: 336	y, algorithms of a d neural network and evolution alg the theory of neu eural networks, T D 21.43	adaptations. Feed as. ART neural n gorithms. ral computation, the MIT Press, 19	-forward neura letworks. Using Addison 095 FX
Brief outline of Basic models of gates, perceptro networks, back neural networks Recommended J. Hertz, A.Krog Wesley, 1991 HASSOUN, M. Course languag Notes: Course assessm Total number of A 8.04	of computationa ons), their compu- propagation algos to solving of pr- literature: gh, R.G. Palmer . H.: Fundament ge: nent f assessed studer B 15.18 RNDr. Gabriela	utational capabilit gorithm. Hopfiel roblems. Genetic :: Introduction to tals of artificial ne nts: 336 C 23.81 Andrejková, CSc	y, algorithms of a d neural network and evolution alg the theory of neu eural networks, T D 21.43	adaptations. Feed as. ART neural n gorithms. ral computation, the MIT Press, 19	-forward neura letworks. Using Addison 095 FX

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ ZLSP/14	Course name: Linux fund	amentals for SAP
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14	
Number of credits: 4	1	
Recommended seme	ster/trimester of the cours	e:
Course level: I., II., N	N	
Prerequisities: ÚINF	/ZTSP/14 or ÚINF/SAP1a/	06
Conditions for cours	se completion:	
Learning outcomes:		
	c commands, permissions &	t processes, work with the files, advanced Linux: ripting, SAP architecture on OS level.
Recommended litera	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 12	
	abs	n
	100.0	0.0
Provides: RNDr. Štet	fan Pero	
Date of last modifica	tion: 17.02.2014	
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.	
	-	

University: P. J.	Šafárik Univers	sity in Košice			
Faculty: Faculty	y of Science			_	
Course ID: ÚIN LAD1/06	VF/ Course na	ame: Logical asp	ects of databases	3	
	Lecture I course-load (h er study period:	ours):			
Number of crea	lits: 4				
Recommended	semester/trime	ster of the cours	e: 4.	_	
Course level: II					
Prerequisities:					
Conditions for	course complet	ion:			
logic programm Brief outline of	and to be able to ting. the course:	o formalize relati	-	n databases, first	order logic and
Recommended	literature: l, Richard Hull,			abases. Addison-	Wesley 1995,
Course languag	ge:				
Notes:					
Course assessm Total number of	ent f assessed studer	its: 58			
А	В	С	D	E	FX
32.76	17.24	22.41	13.79	12.07	1.72
Provides: doc. 1	RNDr. Stanislav	Krajči, PhD.			
Date of last mo	dification: 03.02	2.2014		_	

Faculty: Facult	y of Science				
Course ID: ÚI LOP1/04	NF/ Course na	ame: Logic prog	ramming		
Course type: l Recommende	cope and the met Lecture / Practice d course-load (h 2 Per study perio d: present	e ours):			
Number of crea					
Recommended	semester/trimes	ster of the cours	se: 2.		
Course level: I.	, II.				
Prerequisities:					
Conditions for	course completi	on:			
Learning outco					1 ·
and basic metho	ods of implement	U U U	mplementary met programming lang	-	ll programming
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o	ods of implement the course: in Prolog. Unific rolog. Computati perators in comp	tations of logic p cation of terms (lonal step and c posed terms. Pre	1 2	guages. cation algorithm) e. Classification and output. Dyn	. Recursion and of terms. Lists namic database
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended	ods of implement the course: in Prolog. Unific rolog. Computati perators in comp fail, for). Predica literature:	tations of logic p cation of terms (fonal step and c posed terms. Pre- ates related to ba	Robinson's unific omputational tree edicates for input	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin	Recursion and of terms. Lists namic database ng of arithmetic
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended BRATKO, I.: P	ods of implement the course: in Prolog. Unific rolog. Computati perators in comp fail, for). Predica literature: rolog – program	tations of logic p cation of terms (fonal step and c posed terms. Pre- ates related to ba	Robinson's unific omputational tree edicates for input acktrack. Cut. Pro	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin	Recursion and of terms. Lists namic database ng of arithmetic
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended BRATKO, I.: P 2001 Course languag	ods of implement the course: in Prolog. Unific rolog. Computati perators in comp fail, for). Predica literature: rolog – program	tations of logic p cation of terms (fonal step and c posed terms. Pre- ates related to ba	Robinson's unific omputational tree edicates for input acktrack. Cut. Pro	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin	Recursion and of terms. Lists namic database ng of arithmetic
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended BRATKO, I.: P 2001 Course languag Notes: Course assessm	ods of implement the course: in Prolog. Unific rolog. Computati perators in comp fail, for). Predica literature: rolog – programs ge:	tations of logic p cation of terms (fonal step and c posed terms. Pre ates related to ba	Robinson's unific omputational tree edicates for input acktrack. Cut. Pro	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin	Recursion and of terms. Lists namic database ng of arithmetic
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended BRATKO, I.: P 2001 Course languag Notes: Course assessm	bds of implement the course: in Prolog. Unific rolog. Computati perators in comp fail, for). Predica literature: rolog – programi ge:	tations of logic p cation of terms (fonal step and c posed terms. Pre ates related to ba	Robinson's unific omputational tree edicates for input acktrack. Cut. Pro	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin	Recursion and of terms. Lists namic database ng of arithmetic
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended BRATKO, I.: P 2001 Course languag Notes: Course assessm Total number o	ods of implement the course: in Prolog. Unific rolog. Computati perators in comp fail, for). Predica literature: rolog – programs ge: nent f assessed studen	tations of logic p cation of terms (fonal step and c posed terms. Pre ates related to ba ming for artificia	Robinson's unific omputational tree edicates for input acktrack. Cut. Pre	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin	. Recursion and of terms. Lists namic database ng of arithmetic son-Wesley,
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended BRATKO, I.: P 2001 Course languag Notes: Course assessm Total number o A 19.43	ods of implement in Prolog. Unific rolog. Computati perators in comp fail, for). Predica literature: rolog – programm ge: nent f assessed studen B	tations of logic p cation of terms (fonal step and c posed terms. Pre- ates related to ba ming for artificia tts: 211 C 15.64	Robinson's unific omputational tree edicates for input acktrack. Cut. Pre- al intelligence, thi	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin rd edition. Addis	. Recursion and of terms. Lists namic database ng of arithmetic son-Wesley, FX
and basic metho Brief outline of Facts and rules backtrack in Pr Functors and o Cycles (repeat- expressions. Recommended BRATKO, I.: P 2001 Course languag Notes: Course assessm Total number o A 19.43 Provides: RND	ods of implement in Prolog. Unificition rolog. Computation perators in complement fail, for). Predication literature: rolog – programm ge: nent f assessed studen B 10.9	tations of logic p cation of terms (conal step and c posed terms. Pre- ates related to ba ming for artificia tts: 211 C 15.64 PhD.	Robinson's unific omputational tree edicates for input acktrack. Cut. Pre- al intelligence, thi	guages. cation algorithm) e. Classification and output. Dyn edicates evaluatin rd edition. Addis	. Recursion and of terms. Lists namic database ng of arithmetic son-Wesley, FX

University: P. J.	Safárik Unive	rsity in Košice			
Faculty: Faculty	y of Science				
Course ID: ÚIN TSU1/12	VF/ Course i	name: Machine le	arning methods		
Course type, sc Course type: I Recommended Per week: 2 / 2 Course metho	Lecture / Praction 1 course-load (2 Per study per	ce (hours):			
Number of crea	lits: 5				
Recommended	semester/trim	ester of the cours	e: 6.		
Course level: II	•				
Prerequisities:					
Conditions for Fnal project and	1	tion:			
Learning outco Detailed overvi		techniques of ma	chine learning ar	nd data mining.	
vector machine	ning: k-NN, line es, decision tre	ear classification a ees, naive bates of temset mining and	classifier and ba	ayesian networks	· 11
Kaufmann, ISB Pang-Ning Tan, ISBN 978-0321	cheline Kamber N 978-0123814 Michael Stein 321367, 2005.	r, Jian Pei. Data M 4791, 2011. bach, Vipin Kuma to Machine Learn	r. Introduction to	o Data Mining. Ad	ddison-Wesley,
Course languag	ge:				
Notes:					
Course assessm Total number of		ents: 5			
А	В	С	D	Е	FX
20.0	0.0	60.0	0.0	20.0	0.0
Provides: RND	r. Tomáš Horvá	.th, PhD.			
Date of last mo	dification: 03.0	02.2014			

	arik University in Košice
Faculty: Faculty of S	Science
Course ID: ÚMV/ MAN3a/10	Course name: Mathematical analysis I for informaticians and physicists
Course type, scope a Course type: Lectu Recommended cou Per week: 4 / 3 Per Course method: pr	re / Practice prse-load (hours): p study period: 56 / 42
Number of credits:	8
Recommended sem	ester/trimester of the course: 1.
Course level: I., II.	
Prerequisities:	
	se completion: ent is taken the form of small tests and two main tests during the semester. Final by continuous assessment (50%), written and oral part of the exam (50%).
	students with the basics of mathematical analysis necessary to study physics ce. The students also learn mathematical culture, notation and mathematical
Duriaf audling of the	
 Introduction - lang Real numbers and Sequences - bound Series - sum, tests Functions of one r Continuous functi Derivative, differ calculus. Using differential Other applications 	course: guage of mathematics, basics of formal logic. sets - ordering, boundedness, infimum, supremum. dedness, monotonicity, convergence, subsequences. for convergence, absolute and relative convergence. real variable - fundamental concepts, limits and operations with them. ons and their properties on the set (interval). Elementary functions. entiability, difference and differential, fundamental theorems of differential calculus for the investigation of properties of functions and their behavior. s of derivative - calculation of limits, Taylor polynomials. dius and range of convergence, properties of the sum of power series, Taylor
 Introduction - lang Real numbers and Sequences - bound Series - sum, tests Functions of one r Continuous functi Derivative, differ calculus. Using differential Other applications Power series - raseries. 	guage of mathematics, basics of formal logic. sets - ordering, boundedness, infimum, supremum. dedness, monotonicity, convergence, subsequences. for convergence, absolute and relative convergence. real variable - fundamental concepts, limits and operations with them. ons and their properties on the set (interval). Elementary functions. entiability, difference and differential, fundamental theorems of differential calculus for the investigation of properties of functions and their behavior. s of derivative - calculation of limits, Taylor polynomials. dius and range of convergence, properties of the sum of power series, Taylor
 Real numbers and Sequences - bound Series - sum, tests Functions of one r Continuous functi Derivative, differ calculus. Using differential Other applications Power series - raseries. Recommended liter B. Mihalíková, J. Košiciach, Košice, 2 Z. Došlá, J. Kuber 	guage of mathematics, basics of formal logic. sets - ordering, boundedness, infimum, supremum. dedness, monotonicity, convergence, subsequences. for convergence, absolute and relative convergence. real variable - fundamental concepts, limits and operations with them. ons and their properties on the set (interval). Elementary functions. entiability, difference and differential, fundamental theorems of differential calculus for the investigation of properties of functions and their behavior. s of derivative - calculation of limits, Taylor polynomials. dius and range of convergence, properties of the sum of power series, Taylor ature: Ohriska: Matematická analýza 1, vysokoškolský učebný text, UPJŠ v

Cambridge, 2006. 4. K. A. Ross: Elementary Analysis: The theory of Calculus, Springer, New York, 2010.

5. A. Banner: The calculus lifesaver, Princeton university press, Princeton, 2007.

6. B. S. Thomson, J. B. Bruckner, A. M. Bruckner: Elementary real analysis, Prentice Hall (Pearson), Lexington, 2008.

7. J. Stewart: Calculus: Early Transcendentals, Brooks Cole (Thomson), Toronto, 2008.

Course language:

slovak

Notes:

Course assessment

Total number of assessed students: 850

А	В	С	D	Е	FX		
6.59	8.12	12.94	15.29	37.18	19.88		
Provides: RNDr. Ivan Mojsej, PhD., Mgr. Jozef Kisel'ák, PhD.							
Date of last modification: 14.02.2014							
Approved: prof. RNDr. Viliam Geffert, DrSc.							

University: P. J. Šafár	ik University in Košice
Chiver Sity + 1. 5. Sului	

Faculty: Faculty of Science

H		
	Course ID: ÚMV/	Course name: Mathematical analysis II for informaticians and physicists
	MAN3b/10	

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 4 / 3 **Per study period:** 56 / 42

Course method: present

Number of credits: 8

Recommended semester/trimester of the course: 2.

Course level: I., II.

Prerequisities: ÚMV/MAN3a/10

Conditions for course completion:

Continuous assessment is taken the form of small tests and two main tests during the semester. Final evaluation is given by continuous assessment (50%), written and oral part of the exam (50%).

Learning outcomes:

The course provides students with the basics of mathematical analysis necessary to study physics and computer science. The students also learn mathematical culture, notation and mathematical way of thinking and expression.

Brief outline of the course:

1. Integral calculus of functions of one real variable: a) Indefinite integral - primitive function and its properties, techniques of integration; b) Definite Riemann integral - definition, elementary properties, calculation methods, classes of integrable functions, applications; c) Improper integral.

2. Ordinary differential equations - basic concepts, the first order equations (separable, homogeneous, linear, Bernoulli), linear equations of the second order (also with constant coefficients).

3. Metric space - Euclidean space, some topological properties of points and sets.

4. Function of several real variables - basic concepts, limits and continuity.

5. Differential calculus of functions of several real variables - partial derivative, differentiability and total differential (also higher order), Taylor polynomials, directional derivative, local and global extrema, constrained local extrema.

6. Double (two dimensional) integral - definition, calculation methods, applications.

Recommended literature:

1. L. Kluvánek, I. Mišík, M. Švec: Matematika I, II, SVTL, Bratislava, 1959 (in Slovak).

2. Z. Došlá, O. Došlý: Diferenciální počet funkcí více proměnných, vysokoškolský učebný text, Masarykova univerzita v Brne, Brno, 2003 (in Czech).

3. J. Eliaš, J. Horváth, J. Kajan: Zbierka úloh z vyššej matematiky 2, 3, 4, Alfa, Bratislava, 1971 (in Slovak).

4. J. C. Robinson: An introduction to ordinary differential equations, Cambridge University Press, Cambridge, 2004.

5. R. E. Williamson, H. F. Trotter: Multivariable mathematics, Prentice Hall (Pearson), Upper Saddle River, 2004.

6. B. S. Thomson, J. B. Bruckner, A. M. Bruckner: Elementary Real Analysis, Prentice Hall (Pearson), Lexington, 2008.

7. J. Stewart: Calculus: Early Transcendentals, Brooks Cole (Thomson), Toronto, 2008.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 375

А	В	С	D	Е	FX
6.4	7.47	11.47	17.87	40.53	16.27

Provides: Mgr. Jozef Kisel'ák, PhD., doc. RNDr. Božena Mihalíková, CSc., RNDr. Jaroslav Šupina, PhD.

Date of last modification: 14.02.2014

Approved: prof. RNDr. Viliam Geffert, DrSc.

University: P. J. S	Šafárik Universi	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚFV/ KDO1/99	Course na	me: Methods of	Clinical Dosime	etry	
Course type, sco Course type: Le Recommended Per week: 2 Per Course method	cture course-load (he study period:	ours):			
Number of credi	ts: 3				
Recommended se	emester/trimes	ter of the cours	e: 2., 4.		
Course level: II.					
Prerequisities:					
Conditions for co	ourse completio	on:			
Learning outcom Basic methods of		etry.			
Brief outline of t The basic concep radiation. The d topometry and do tomograph slices	ts of clinical do ose measurement osimetry of bear) on simulation	ent methods. N ms "in phantom	ew trends in cl s" and "in vivo"	linical dosimetry dosimetry. 3D-fi	. PC supported
Recommended li					
Course language	•				
Notes:					
Course assessme Total number of a		ts: 2			
Α	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: doc. RI	NDr. Pavel Mat	ula, CSc.			
Date of last modi	ification: 11.02	.2014			

		sity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚN MPJ1/08	NF/ Course n	ame: Modern pro	ogramming langu	lages	
Course type:] Recommende	cope and the me Lecture / Practic d course-load (l 2 Per study per od: present	e hours):			
Number of cre	dits: 4				
Recommended	semester/trime	ester of the cours	se: 5.		
Course level: I.	., II.				
Prerequisities:					
Conditions for	course complet	tion:			
Learning outco Mastering the b		d and experiment	al programming	models and techn	iques.
	1 0 0	g, Generic prog	• 1	1 2	1
programming – Attribute progra and declarative	- operator overlo amming. Paralle programming –	g, Generic prog bading, indexer. H l and multithread lambda expressio	Event programmi programming – p	ng (event handlin processes, threadp	ng) – delegates
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albaha O'REILLY	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar	bading, indexer. E l and multithread	Event programmi programming – p ons, LINQ. Grapl Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives.	ng) – delegates bool. Functional
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albaha O'REILLY	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar Illustrated C# 20	and the .NET 4.5 ri, C# 5.0 in a Nut	Event programmi programming – p ons, LINQ. Grapl Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives.	ng) – delegates bool. Functional
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albah O'REILLY - Daniel Solis,	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar Illustrated C# 20	and the .NET 4.5 ri, C# 5.0 in a Nut	Event programmi programming – p ons, LINQ. Grapl Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives.	ng) – delegates bool. Functional
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albaha O'REILLY - Daniel Solis, Course langua Notes: Course assessm	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar Illustrated C# 20 ge:	bading, indexer. E l and multithread lambda expression and the .NET 4.5 ri, C# 5.0 in a Nut 012, 2012, APRE	Event programmi programming – p ons, LINQ. Grapl Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives.	ng) – delegates bool. Functional
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albaha O'REILLY - Daniel Solis, Course langua Notes: Course assessm	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar Illustrated C# 20 ge:	bading, indexer. E l and multithread lambda expression and the .NET 4.5 ri, C# 5.0 in a Nut 012, 2012, APRE	Event programmi programming – p ons, LINQ. Grapl Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives.	ng) – delegates bool. Functional
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albaha O'REILLY - Daniel Solis, Course langua Notes: Course assessn Total number o	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar Illustrated C# 20 ge: nent	nts: 88	Event programmi programming – p ons, LINQ. Graph Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives. APRESS tive Reference, 2	ng) – delegates bool. Functional
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albaha O'REILLY - Daniel Solis, Course langua Notes: Course assessn Total number o A 17.05	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar Illustrated C# 20 ge: nent f assessed studer B	nts: 88	Event programmi programming – p ons, LINQ. Graph Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives. APRESS itive Reference, 2	ng) – delegates bool. Functional 012, FX
programming – Attribute progra and declarative Recommended - Andrew Troel - Joseph Albaha O'REILLY - Daniel Solis, Course langua Notes: Course assessn Total number o A 17.05 Provides: doc.	- operator overlo amming. Paralle programming – literature: lsen, Pro C# 5.0 ari, Ben Albahar Illustrated C# 20 ge: nent f assessed studer B 18.18	nts: 88 C 27.27 prok, CSc.	Event programmi programming – p ons, LINQ. Graph Platform, 2012, tshell: The Defini	ng (event handlir processes, threadp nics primitives. APRESS itive Reference, 2	ng) – delegates bool. Functional 012, FX

University: P. J. Šafa	árik University in Košic	e
Faculty: Faculty of S	Science	
Course ID: ÚTVŠ/ NJ//13	Course name: Naval	Yachting
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ice irse-load (hours): tudy period: 504	
Number of credits:	2	
Recommended sem	ester/trimester of the c	ourse:
Course level: I., II.		
Prerequisities:		
Conditions for cour	se completion:	
Learning outcomes:		
Brief outline of the	course:	
Recommended liter	ature:	
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 2	
	abs	n
	100.0	0.0
Provides: doc. Mgr.	Rastislav Feč, PhD.	
Date of last modific	ation: 15.01.2014	
Approved: prof. RN	Dr. Viliam Geffert, DrS	с.

University D	· ~ ~ · · · · ·	· · TZ ··			
University: P. J	. Šafárik Univers	sity in Kosice			
Faculty: Facult	y of Science				
Course ID: ÚII NEU1/03	NF/ Course na	ame: Neural net	works		
Course type: Recommende	cope and the me Lecture / Practice d course-load (h 1 Per study peri od: present	e iours):			
Number of cre	dits: 5				
Recommended	semester/trime	ster of the cour	se: 3.		
Course level: I	I.				
Prerequisities:					
Conditions for	course complet	ion:			
Learning outco		g basic paradign	ns of neural netwo	orks.	
Feed-forward a	and recurrent neu		ick propagation a		
networks, a cap and solving opt computational	and recurrent neu ability of neural r timization proble models. Theoreti	networks to be an ems. Kohonen ne	universal approx eural networks. N	imator. Hopfield	neural network
Feed-forward a networks, a cap and solving opt computational Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a	and recurrent neu ability of neural r timization proble models. Theoreti I literature: ogh, R.G. Palmer: kol.: Úvod do te	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc	universal approx eural networks. N	imator. Hopfield reural networks in ral computation, tislava, 1997.	neural networks a connections to Addison
Feed-forward a networks, a cap and solving opt computational Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a J. Šíma, R. Ner	and recurrent neu ability of neural r timization proble models. Theoreti I literature: ogh, R.G. Palmer: kol.: Úvod do te ruda: Teoretické o	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc	universal approx eural networks. Noneural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield reural networks in ral computation, tislava, 1997.	neural networks a connections to Addison
Feed-forward a networks, a cap and solving opt computational Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a	and recurrent neu ability of neural r timization proble models. Theoreti I literature: ogh, R.G. Palmer: kol.: Úvod do te ruda: Teoretické o	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc	universal approx eural networks. Noneural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield reural networks in ral computation, tislava, 1997.	neural networks a connections to Addison
Feed-forward a networks, a cap and solving opt computational : Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a J. Šíma, R. Ner Course langua ; Notes:	and recurrent neu ability of neural n timization proble models. Theoreti l literature: ogh, R.G. Palmer: kol.: Úvod do te ruda: Teoretické o ge:	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc otázky neurónov	universal approx eural networks. Noneural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield reural networks in ral computation, tislava, 1997.	neural networks a connections to Addison
Feed-forward a networks, a cap and solving opt computational : Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a J. Šíma, R. Ner Course langua ; Notes:	and recurrent neu pability of neural r timization proble models. Theoreti l literature: ogh, R.G. Palmer: kol.: Úvod do te ruda: Teoretické o ge:	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc otázky neurónov	universal approx eural networks. Noneural networks. the theory of neu h sietí, IRIS, Brat	imator. Hopfield reural networks in ral computation, tislava, 1997.	neural networks a connections to Addison
Feed-forward a networks, a cap and solving opt computational Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a J. Šíma, R. Ner Course langua Notes: Course assessn Total number o	and recurrent neu ability of neural n timization proble models. Theoreti l literature: ogh, R.G. Palmer: kol.: Úvod do te ruda: Teoretické o ge: nent	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc otázky neurónov	universal approx eural networks. Noneural networks. the theory of neu h sietí, IRIS, Brat ých sítí. Matfyzpi	imator. Hopfield r eural networks in ral computation, tislava, 1997. ress,MFF UK, Pr	neural networks a connections to Addison aha, 1996.
Feed-forward a networks, a cap and solving opt computational : Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a J. Šíma, R. Ner Course langua Notes: Course assessn Total number o A 12.79	and recurrent neu ability of neural n timization proble models. Theoreti l literature: ogh, R.G. Palmer: kol.: Úvod do te ruda: Teoretické o ge: nent of assessed studer B	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc otázky neurónov nts: 172 C 22.67	universal approx pural networks. Noneural networks. Noneural networks. the theory of neural networks. the theory of neural networks, Brate ych sití, IRIS, Brate ych sití. Matfyzpr	imator. Hopfield r eural networks in ral computation, tislava, 1997. ress,MFF UK, Pr	Addison aha, 1996.
Feed-forward a networks, a cap and solving opt computational : Recommended J. Hertz, A.Kro Wesley, 1991. V. Kvasnička a J. Šíma, R. Ner Course langua Notes: Course assessn Total number o A 12.79 Provides: doc.	and recurrent neu ability of neural n timization proble models. Theoreti l literature: ogh, R.G. Palmer: kol.: Úvod do te ruda: Teoretické o ge: nent of assessed studer B 14.53	networks to be an ems. Kohonen ne cal problems of : Introduction to órie neurónovýc otázky neurónov nts: 172 C 22.67 Andrejková, CSo	universal approx pural networks. Noneural networks. Noneural networks. the theory of neural networks. the theory of neural networks, Brate ych sití, IRIS, Brate ych sití. Matfyzpr	imator. Hopfield r eural networks in ral computation, tislava, 1997. ress,MFF UK, Pr	Addison aha, 1996.

University: P. J. Šaf	ărik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚFV/ NOT1a/03	Course name: Nontraditional Optimization Techniques I	
Course type, scope Course type: Lectu Recommended cou Per week: 2 / 2 Per Course method: pr	are / Practice arse-load (hours): r study period: 28 / 28	
Number of credits:	5	

Recommended semester/trimester of the course: 1., 3., 5.

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 assessm Total number of	nent f assessed studen	ts: 55				
А	В	С	D	Е	FX	
69.09 16.36 7.27 1.82 5.45 0.0						
Provides: RND	r. Branislav Brut	ovský, CSc.				
Date of last mo	dification: 10.02	2.2014				
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.				

	Safarik Univer	rsity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚFV NOT1b/03	// Course n	name: Nontraditio	nal Optimizatior	Techniques II	
Course type, sco Course type: L Recommended Per week: 2 / 2 Course method	ecture / Practic course-load (Per study per	ce hours):			
Number of cred	lits: 5				
Recommended s	semester/trim	ester of the cours	e: 2., 4., 6.		
Course level: I.,	II.				
Prerequisities:					
Conditions for a Presentation of t		tion: rritten form. Oral o	exam and discuss	sion of the preser	nted project.
Learning outcol By using examp	les from the bio	ology to learn app	lications of optir	-	ies on study and
Brief outline of Complex system optimization ten simulated annea dynamics, prot	the course: ms, emergent chniques on c lling, taboo sea	behavior. Evolu complex systems. rch/ on selected p Population dynar	tionary theory Application of problems of biom	and memetics. f methods /gene nolecular simulat	Application of etic algorithms ions. Molecular
Brief outline of Complex system optimization tech simulated annea dynamics, prote bioinformatics.	the course: ms, emergent chniques on c ling, taboo sea ein folding. I	behavior. Evolu complex systems. rch/ on selected p	tionary theory Application of problems of biom	and memetics. f methods /gene nolecular simulat	Application of etic algorithms tions. Molecular
Brief outline of Complex system optimization ten simulated annea dynamics, prote bioinformatics. Recommended The actual scien	the course: ms, emergent chniques on c ling, taboo sea ein folding. I literature: tific papers.	behavior. Evolu complex systems. rch/ on selected p	tionary theory Application of problems of biom	and memetics. f methods /gene nolecular simulat	Application of etic algorithms, ions. Molecular
Brief outline of Complex system optimization ten- simulated annea dynamics, prot- bioinformatics. Recommended The actual scien Course languag	the course: ms, emergent chniques on c ling, taboo sea ein folding. I literature: tific papers.	behavior. Evolu complex systems. rch/ on selected p	tionary theory Application of problems of biom	and memetics. f methods /gene nolecular simulat	Application of etic algorithms tions. Molecular
Brief outline of Complex system optimization tech simulated annea dynamics, prote bioinformatics.	the course: ms, emergent chniques on c iling, taboo sea ein folding. I literature: tific papers. e: ent	behavior. Evolu complex systems. rch/ on selected p Population dynar	tionary theory Application of problems of biom	and memetics. f methods /gene nolecular simulat	Application of etic algorithms, ions. Molecular
Brief outline of Complex system optimization ten- simulated annea dynamics, prot- bioinformatics. Recommended I The actual scien Course languag Notes: Course assessm	the course: ms, emergent chniques on c iling, taboo sea ein folding. I literature: tific papers. e: ent	behavior. Evolu complex systems. rch/ on selected p Population dynar	tionary theory Application of problems of biom	and memetics. f methods /gene nolecular simulat	Application of etic algorithms, ions. Molecular
Brief outline of Complex system optimization ten- simulated annea dynamics, prot- bioinformatics. Recommended I The actual scien Course languag Notes: Course assessme Total number of	the course: ms, emergent chniques on co iling, taboo sea ein folding. I literature: tific papers. e: ent `assessed stude	behavior. Evolu complex systems. rch/ on selected p Population dynar	tionary theory Application of problems of biom nics, metabolic	and memetics. f methods /gene nolecular simulat networks and	Application of etic algorithms ions. Molecular complexity ir
Brief outline of Complex system optimization ten- simulated annea dynamics, prote- bioinformatics. Recommended I The actual scien Course languag Notes: Course assessem Total number of A 86.21	the course: ms, emergent chniques on co ling, taboo sea ein folding. I literature: tific papers. ee: ent `assessed stude B 6.9	behavior. Evolu complex systems. rch/ on selected p Population dynar	tionary theory Application of problems of biom nics, metabolic	and memetics. f methods /gene nolecular simulat networks and 	Application of etic algorithms ions. Molecular complexity ir
Brief outline of Complex system optimization ten- simulated annea dynamics, prote- bioinformatics. Recommended I The actual scien Course languag Notes: Course assessem Total number of A	the course: ms, emergent chniques on co ling, taboo sea ein folding. I literature: tific papers. ee: ent `assessed stude B 6.9 RNDr. Jozef Uli	behavior. Evolu complex systems. rch/ on selected p Population dynar ents: 29 C 3.45 ičný, CSc.	tionary theory Application of problems of biom nics, metabolic	and memetics. f methods /gene nolecular simulat networks and 	Application of etic algorithms ions. Molecular complexity in

Faculty: Faculty of S	cience				
Course ID: ÚINF/ ORSP/14					
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14				
Number of credits: 4	1				
Recommended seme	ester/trimester of the cours	e:			
Course level: I., II., N	N				
Prerequisities: ÚINF	F/ASSP/14 or ÚINF/SAP1b/	06			
Conditions for cours	se completion:				
Learning outcomes:					
administration tools, Spaces", Performing	: database architecture, administrating Oracle insta	connecting to the database, using database inces. Space management: administrating "Table usekeeping and troubleshooting. Backup, Restore			
and Recovery.					
and Recovery. Recommended litera	ture:				
2	ature:				
Recommended litera	ature:				
Recommended litera Course language:					
Recommended litera Course language: Notes: Course assessment					
Recommended litera Course language: Notes: Course assessment Total number of asse	ssed students: 11	n 9.09			
Recommended litera Course language: Notes: Course assessment Total number of asse	ssed students: 11 abs 90.91				
Recommended litera Course language: Notes: Course assessment Total number of asse	ssed students: 11 abs 90.91 fan Pero				

Faculty: Faculty o Course ID: ÚINF/ PDB1/10					
PDB1/10					
	/ Course n	ame: Organization	n and data proc	essing	
Course type, scop Course type: Lec Recommended c Per week: 2 / 1 P Course method:	cture / Practic course-load (h Per study per	e 10urs):			
Number of credit	s: 4				
Recommended se	mester/trime	ster of the course	e: 3.		
Course level: II.					
Prerequisities:					
Conditions for co final exam	urse complet	ion:			
	e principles of mization prob	-	-	To be able to use parallel and distrib	-
Data representation Hash-based index query optimization recovery managem	ting methods, n, transaction	external sorting, management, para	enumeration of allel and distrib	f relational operate uted databases, dat	ors, top-k join,
Recommended lit R. RAMAKRISH Education, 2003 A. SILBERSCHA Higher Education,	NAN, J. GEH TZ, H. F. KO		0 9	stems, McGraw Hi se system concepts	e
Course language:	;				
Notes:					
Course assessmen Total number of as	-	nts: 46			
Α	В	С	D	E	FX
34.78	19.57	19.57	8.7	17.39	0.0
Provides: RNDr. I	Peter Gurský,	PhD.			
Date of last modif	fication: 03.0	2.2014			
Approved: prof. R	RNDr. Viliam	Geffert, DrSc.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚINF/ ZMSP/14				
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14			
Number of credits: 4	1			
Recommended seme	ster/trimester of the cours	e:		
Course level: I., II., N	N			
Prerequisities: ÚINF	C/ZKSP/14			
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c User training module Management).		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	tion: 17.02.2014			
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.			

University: P. J	Šafárik Univer	rsity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚIN PDS1/03	JF/ Course r	name: Parallel and	d distributed syste	ems	
Course type, sc Course type: 1 Recommended Per week: 2 / 1 Course metho	Lecture / Practic l course-load (l Per study per	e hours):			
Number of crea	lits: 4				
Recommended	semester/trim	ester of the cours	se: 4.		
Course level: I.	, II.				
Prerequisities:					
Conditions for	course comple	tion:			
Learning outco to introduce the		of parallel and dis	tributed program	ming	
development, d Recommended Kenneth A. Ber Thomson, 2005 Gregory R. And Addison-Wesle Joseph JáJá: Ar 0-201-54856-9	ata structures an literature: man and Jerom , ISBN 0-534-4 lrews: Foundati y, 2000, ISBN (Introduction to	ons of Multithrea	nethodologies hms: Sequential, ded, Parallel, and ums, Addison-We	Parallel, and Dis I Distributed Prog sley, 1992, ISBN	tributed, gramming,
Course languag	ge:			-	
Notes:					
Course assessm Total number of		nts: 97			
А	В	С	D	Е	FX
23.71	20.62	15.46	20.62	11.34	8.25
Provides: doc. 1	RNDr. Jozef Jir	ásek, PhD., RND1	: František Galčí	k, PhD.	
Date of last mo	dification · 03 (22014			
		2.2017			

University: P. J. Š	afárik Universi	ity in Košice			
Faculty: Faculty of	of Science				
Course ID: ÚFV/ LEK1/02	Course na	me: Physical Pr	inciples of Medi	cal Diagnostics a	nd Therapy
Course type, scop Course type: Leo Recommended c Per week: 2 Per Course method:	cture ourse-load (ho study period:	ours):			
Number of credit	s: 2				
Recommended se	mester/trimes	ter of the cours	e: 1., 3.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completio	on:			
Learning outcom	es:				
Brief outline of th	e course:				
Recommended lit	erature:				
Course language:					
Notes:					
Course assessmen Total number of a		s: 27			
A	В	С	D	Е	FX
85.19	11.11	3.7	0.0	0.0	0.0
Provides: doc. RN	Dr. Karol Flac	hbart, DrSc.			
Date of last modif	fication: 18.02	.2014			
Approved: prof. R	RNDr. Viliam C	Geffert, DrSc.			

	×	•. • •• ·				
University: P. J.		ity in Košice				
Faculty: Faculty						
Course ID: ÚIN PAZ1c/03	AZ1c/03					
Course type, sco Course type: P Recommended Per week: 4 Pe Course method	ractice course-load (h r study period:	ours):				
Number of cred	its: 5					
Recommended s	semester/trimes	ster of the cours	se: 1.			
Course level: I.,	II.					
Prerequisities:						
Conditions for c	course completi	on:				
Learning outcor To grasp object-		les of larger app	lication and algo	rithm design.		
between object: principles of GU layered applicati Recommended I SIERRA, K., BA	sic principle of of Factories, Sin I design – mode ions. literature: ATES, B.: Head	gletons, Depend ls, views, control First Java (2nd F	· · ·	Class hierarchy	design. Basio	
ECKEL, B.: Thi		th Edition), 200	6			
Course languag	e:					
Notes:						
Course assessme Total number of		ts: 231				
A	В	С	D	Е	FX	
	20.35	17.32	10.39	9.52	4.76	
37.66						
		ý, PhD.	l	<u> </u>	<u> </u>	
37.66 Provides: RNDr Date of last mod	. Róbert Novotn	<i>。</i>		I	<u> </u>	

University: P. J. Šafa	árik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚINF/ PMSP/14	Course name: Project management in SAP ERP		
Course type, scope a Course type: Lectu Recommended cou Per week: 3 / 1 Per Course method: pr	rre / Practice rrse-load (hours): • study period: 42 / 14		
Number of credits:	5		
Recommended sem	ester/trimester of the cours	e:	
Course level: I., II.,	N		
Prerequisities: ÚIN	F/ZMSP/14		
Conditions for cour	se completion:		
Learning outcomes			
		re definition, project planning, resource planning,	
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 0		
	abs	n	
	0.0	0.0	
Provides: RNDr. Šte	fan Pero		
Date of last modific	ation: 17.02.2014		
Approved: prof. RN	Dr. Viliam Geffert, DrSc.		

University: P. J. Šafárik University in KošiceFaculty: Faculty of ScienceCourse ID: ÚINF/ PDSI1/04Course ID: ÚINF/ PDSI1/04Course name: Pro-seminar to diploma to d	hesis in informatics
Course ID: ÚINF/ PDSI1/04Course name: Pro-seminar to diploma to PDSI1/04Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: presentNumber of credits: 2Recommended semester/trimester of the course: 3.Course level: II.Prerequisities: Conditions for course completion:Learning outcomes: To inform students about areas of informatics they are suitab	thesis in informatics
PDSI1/04 Course type, scope and the method: Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To inform students about areas of informatics they are suitab	thesis in informatics
Course type: Practice Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To inform students about areas of informatics they are suitab	
Recommended semester/trimester of the course: 3. Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To inform students about areas of informatics they are suitab	
Course level: II. Prerequisities: Conditions for course completion: Learning outcomes: To inform students about areas of informatics they are suitab	
Prerequisities: Conditions for course completion: Learning outcomes: To inform students about areas of informatics they are suitab	
Conditions for course completion: Learning outcomes: To inform students about areas of informatics they are suitab	
Learning outcomes: To inform students about areas of informatics they are suitab	
To inform students about areas of informatics they are suitab	
literature.	1
Brief outline of the course: The seminar is oriented to problems prospective to preparation	ns of Diploma theses.
Recommended literature: MEŠKO, D., KATUŠČÁK, D. Akademická príručka. 1. vyd. 2004. 316 s. ISBN 80-8063-150-6 ISO 690: 1987 Documentation - Bibliographic references. Con ISO 2145: 1978 Documentation - Numbering of divisions and Eco, U.: Jak napsat diplomovou práci, z taliančiny Come si fa Olomouc, Votobiax. Odborná a vedecká literatúra týkajúca sa diplomovej práce po diplomovej práce.	ntent, form and structure. subdivisions in written documents. una tesi di laures, Milano, 1977,
Course language:	
Notes:	
Course assessment Total number of assessed students: 527	
abs	n
99.81	0.19
Provides: doc. RNDr. Gabriela Andrejková, CSc., doc. RNDr.	Lozef lirásek DhD
Date of last modification: 03.02.2014	JUZUI JIIASUK, FIID.
Approved: prof. RNDr. Viliam Geffert, DrSc.	JUZCI JIIASCK, FIID.

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science			_	
Course ID: KPPaPZ/PPZMg/		me: Psychology	and Health Psyc	chology (Mgr. stu	ıdy)
Course type, sco Course type: Le Recommended Per week: 1 / 2 Course method	ecture / Practice course-load (h Per study perio	ours):			
Number of credi	ts: 4				
Recommended s	emester/trimes	ster of the cours	e: 2.		
Course level: I., 2	II				
Prerequisities:					
Conditions for co	ourse completi	on:			
Learning outcon	nes:				
Brief outline of t	he course:				
Recommended li	iterature:				
Course language	2:				
Notes:					
Course assessme Total number of a		ts: 221			
A	В	С	D	Е	FX
19.91	25.79	25.34	12.67	15.84	0.45
Provides: PhDr. A	Anna Janovská,	PhD., PhDr. Kar	olína Barinková	, PhD., Mgr. Luc	ia Hricová
Date of last mod	ification: 04.02	2.2014			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

University: P. J. Šaf	árik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚINF/ PPU1a/04	Course name: Running pr	ractice	
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: pr	ice 1rse-load (hours): udy period: 28		
Number of credits:	2		
Recommended sem	ester/trimester of the cours	se: 4	
Course level: II.			
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	rature:		
Course language:			
Notes:			
Course assessment Total number of ass	essed students: 116		
	abs	n	
	99.14 0.86		
Provides: RNDr. JU	Dr. Pavol Sokol, PhD.		
Date of last modific	ation: 03.02.2014		
Approved: prof. RN	Dr. Viliam Geffert, DrSc.		

University: P. J. Šaf	árik University in Košice		
Faculty: Faculty of	Science		
Course ID: ÚINF/ PPU1b/04	Course name: Running p	ractice	
Course type, scope Course type: Pract Recommended cou Per week: 3 Per st Course method: pr	ice urse-load (hours): udy period: 42		
Number of credits:	3		
Recommended sem	ester/trimester of the cour	se: 5.	
Course level: II.			
Prerequisities:			
Conditions for cour	rse completion:		
Learning outcomes	:		
Brief outline of the	course:		
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 81		
	abs	n	
	100.0 0.0		
Provides: RNDr. JU	Dr. Pavol Sokol, PhD.		
Date of last modific	ation: 03.02.2014		
Approved: prof. RN	Dr. Viliam Geffert, DrSc.		

University: P. J. Šafa	árik University in Košic	e		
Faculty: Faculty of S	Science			
Course ID: ÚINF/ APSP/14	ÚINF/ Course name: SAP applications in public administration/company			
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice rse-load (hours): study period: 28 / 14			
Number of credits:	4			
Recommended sem	ester/trimester of the c	ourse:		
Course level: I., II.,	N			
Prerequisities: ÚIN	F/ZSSP/14			
Conditions for cour	se completion:			
Learning outcomes:				
management, SAP f - reporting in the S exporting data furthe	orocesses and procedure or human resources and SAP environment, outp er processing in the envi	es in the area of SAP budgeting, financing and asset d payroll, SAP Administrative Office system, outputs ut options, training outputs, output processing, and ronment of Excel, Word, inputs - import data in the , the procedure for importing data.		
Recommended liter	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	essed students: 27			
	abs	n		
	100.0	0.0		
Provides: RNDr. Šte	fan Pero, RNDr. Edita V	Vojtová		
Date of last modific	ation: 17.02.2014			
Approved: prof. RN	Dr. Viliam Geffert, DrS	c.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚINF/ ZKSP/14	Course name: SAP basics for consultant		
Course type, scope a Course type: Lectu Recommended cou	re / Practice rse-load (hours):		
Per week: 2 / 1 Per Course method: pr	study period: 28 / 14		
Number of credits: 4			
Recommended seme	ester/trimester of the cou	rse:	
Course level: I., II., I	N		
Prerequisities: ÚINI	F/ZTSP/14 or ÚINF/SAP1	a/06	
Conditions for cour	se completion:		
Learning outcomes:			
their importance for	ture and processes (inter the process. Customizin - migration, connection	egration of SAP modules). Master records and ag and transports, Standard reporting + Queries, to external systems, BADIs, business functions,	
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 0		
	abs	n	
	0.0	0.0	
Provides: RNDr. Šte	fan Pero		
Date of last modific:	ation: 17.02.2014		

Chiver Stey • 1. 5. Dala	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 cou Per week: 2 / 1 Per Course method: pro	re / Practice rse-load (hours): study period: 28 / 14		
Number of credits: 4			
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II., 1	V		
Prerequisities: ÚINF	/ZTSP/14 or ÚINF/SAP1a/	06	
Conditions for cours	e completion:		
Learning outcomes:			
institutions, fundame	odern systems, effective s ntal processes in the institut	olutions for the management and operation of tion of government, support for the process from dies in terms of deployment of SAP company.	
D			
Recommended litera	iture:		
Recommended liter: Course language:	iture:		
	iture:		
Course language:			
Course language: Notes: Course assessment		n	
Course language: Notes: Course assessment	ssed students: 63	n 0.0	
Course language: Notes: Course assessment Total number of asse	ssed students: 63 abs	0.0	
Course language: Notes: Course assessment Total number of asse	ssed students: 63 abs 100.0 fan Pero, RNDr. Edita Vojto	0.0	

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚINF/ PUSP/14	Course name: SAP for advanced users		
Course type, scope a Course type: Lectur Recommended cou Per week: 2 / 1 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 14		
Number of credits: 4	1		
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II., I	N		
Prerequisities: ÚINF	S/APSP/14		
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c One of the training (Material Manageme	modules: HR (Human Reso	ources), FI (Financial) + CO (Controlling), MM	
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 27		
	abs	n	
	100.0	0.0	
Provides: RNDr. Šte	fan Pero, RNDr. Edita Vojto	vá	
Date of last modifica	tion: 17.02.2014		
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	Science		
Course ID: ÚINF/ ZTSP/14	ÚINF/ Course name: SAP overview		
Course type, scope a Course type: Lectu Recommended cou Per week: 2 / 1 Per Course method: pr	re / Practice rse-load (hours): study period: 28 / 14		
Number of credits:	4		
Recommended seme	ester/trimester of the cours	e: 3., 5.	
Course level: I., II., I	N		
Prerequisities:			
Conditions for cour	se completion:		
Learning outcomes:			
Design, Calling Fur	chnology (Products, Innovati nctions), System Kernel (C n SAP), Communication and	ons provided by SAP), Navigation (Logon, Screen Client/Server Architecture, Structure of an SAP Integration Technologies (Remote Function Calls,	
Recommended liter	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	essed students: 156		
	abs	n	
100.0 0.0			
	100.0		
Provides: RNDr. Šte	fan Pero, RNDr. Edita Vojto		
Provides: RNDr. Šte Date of last modific:	fan Pero, RNDr. Edita Vojto		

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ ÚTVŠ/CM/13	Course name: Seaside Aer	obic Exercise	
Course type, scope a Course type: Practic Recommended cour Per week: 36 Per st Course method: pre	ce rse-load (hours): udy period: 504		
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	ture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 7		
	abs n		
57.14 42.86			
Provides: Mgr. Alena	Buková, PhD., Mgr. Agata	Horbacz, PhD.	
Date of last modifica	tion: 15.01.2014		
Approved: prof. RNDr. Viliam Geffert, DrSc.			

University: P. J. Š	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science				
Course ID: ÚINF/ OPS1/06	Course na	me: Security of	computer netwo	rks	
Course type, scop Course type: Lec Recommended c Per week: 2 / 2 P Course method:	cture / Practice ourse-load (h er study perio	ours):			
Number of credits	s: 5				
Recommended se	mester/trimes	ster of the cours	e: 4.		
Course level: II.					
Prerequisities:					
Conditions for co	urse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lit	erature:				
Course language:					
Notes:					
Course assessmen Total number of as		ts: 54			
A	В	С	D	Е	FX
25.93	22.22	27.78	7.41	16.67	0.0
Provides: doc. RN	Dr. Jozef Jirás	sek, PhD., RNDr.	Rastislav Krivo	š-Belluš, PhD.	
Date of last modif	fication: 03.02	2.2014			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

University: P. J.	Šafárik Univers	ity in Košice			
Faculty: Faculty	of Science				
Course ID: ÚINE EIB/04	F/ Course na	me: Security of	computer system	S	
Course type, sco Course type: Recommended Per week: Per Course method	- course-load (h study period:				
Number of credi	ts: 0				
Recommended s	emester/trimes	ster of the cours	e:		
Course level: II.					
Prerequisities: (I	ÚINF/PDS1/03	or ÚINF/OPS1/1	1) and ÚINF/KR	2P1/06	
Conditions for co	ourse completi	on:			
Learning outcon	nes:				
Brief outline of t	he course:				
Recommended li	iterature:				
Course language	2:				
Notes:				c	
Course assessme Total number of a		ts: 15			
A	В	С	D	Е	FX
40.0	20.0	20.0	20.0	0.0	0.0
Provides:					,
Date of last mod	ification: 03.02	2.2014			
Approved: prof.	RNDr. Viliam (Geffert, DrSc.			

		sity in Košice			
Faculty: Facult	y of Science				
Course ID: ÚM VKM/10	IV/ Course na	ame: Selected to	pics in mathemat	tics	
Course type: I Recommende	cope and the me Lecture / Practice d course-load (h 2 Per study peri d: present	e ours):			
Number of crea	lits: 5				
Recommended	semester/trime	ster of the cours	se: 1.		
Course level: II					
Prerequisities:					
	course completiding to tests duri		points), written	exam (20 points)), oral exam (40
	the fundamentals	1 5	heory, random pr is on practical ap	ocesses, algebra plications.	of polynomials,
geometrical pro Random proces Polynomials ov	assical definition bability. ses, Markov cha ver a field. Decon linear and intege	ins. nposition into irr	educible factors.	acteristics of ran Roots of polynom plex method. Du	mials.
T. Katriňák a ko Plesník, Dupáčo Riečan a kol.:P	MacLane: Prehľ ol.: Algebra a teo ová, Vlach: Line ravdepodobnosť	oretická aritmetik árne programova a matematická š	ebry, Alfa Bratisla a 1, Alfa Bratisla mie, Alfa, Bratisl tatistika, Alfa, Br UPJŠ, Košice, 20	ava, 1985 lava 1990 ratislava, 1984	
Course languag Slovak	ge:				
Notes:					
Course assessm Total number of	nent f assessed studen	nts: 23			
		ts: 23	D	E	FX

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	cience
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	re / Practice rse-load (hours): study period: 28 / 14
Number of credits: 4	
Recommended seme	ster/trimester of the course: 4.
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.
XML, syntax, progExamples in of proceSemantic web mode	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
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.source	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/
Course language:	
Notes:	

Course assessm Total number of	ent f assessed studen	ts: 30					
А	В	С	D	Е	FX		
80.0 3.33 10.0 0.0 0.0 6.67							
Provides: RND	r. Peter Gurský, I	PhD.					
Date of last mo	dification: 03.02	2.2014					
Approved: prof	f. RNDr. Viliam (Geffert, DrSc.					

Fooulty Fooult	. Salalik Ulliver	sity in Košice					
racuity: racult	y of Science						
Course ID: ÚIN SPS1/00	F/ Course name: Seminar in network programming						
Course type: I Recommende	d course-load (l er study period	hours):					
Number of crea	dits: 3						
Recommended	semester/trime	ester of the course	e: 3.				
Course level: I.	, II.						
Prerequisities:							
Conditions for	course complet	ion:					
Learning outco To render curre		of programing in 1	network distribu	ted environment.			
		ent-server applica	ations. iterative	and concurrent s	ervers. Remot		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, 2	ramming the cli s. Server-side pro ponent Object N	ent-server applica ogramming, CGI, Model, Corba, dat ktensions of HTM g is expected.	PHP, basics of P abase connection	erl and Python. S	cript languages		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, 2 Advanced level Recommended	ramming the cli s. Server-side pro ponent Object M KSL, dynamic ex of programmin	ogramming, CGI, Model, Corba, dat ktensions of HTM g is expected.	PHP, basics of P abase connection	erl and Python. S	cript languages		
Procedure Calls ASP, JSP, Com Model, XML, X Advanced level Recommended	ramming the cli s. Server-side pro ponent Object M XSL, dynamic ex of programming literature: s and specification	ogramming, CGI, Model, Corba, dat ktensions of HTM g is expected.	PHP, basics of P abase connection	erl and Python. S	cript languages		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, J Advanced level Recommended Internet sources Course languag	ramming the cli s. Server-side pro ponent Object M XSL, dynamic ex of programming literature: s and specification	ogramming, CGI, Model, Corba, dat ktensions of HTM g is expected.	PHP, basics of P abase connection	erl and Python. S	cript languages		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, Y Advanced level Recommended Internet sources Course languag Notes: Course assessm	ramming the cli s. Server-side pro ponent Object M KSL, dynamic ex of programming literature: s and specification ge:	ogramming, CGI, Model, Corba, dat xtensions of HTM g is expected.	PHP, basics of P abase connection	erl and Python. S	cript languages		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, Y Advanced level Recommended Internet sources Course languag Notes: Course assessm	ramming the cli s. Server-side pro- ponent Object M KSL, dynamic ex of programming literature: s and specification ge:	ogramming, CGI, Model, Corba, dat xtensions of HTM g is expected.	PHP, basics of P abase connection	erl and Python. S	cript languages		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, 2 Advanced level Recommended Internet sources Course languag Notes: Course assessm Total number of	ramming the cli s. Server-side pro- ponent Object N KSL, dynamic ex of programming literature: s and specification ge: nent f assessed studen	ogramming, CGI, Model, Corba, dat ktensions of HTM g is expected. ons.	PHP, basics of P abase connection L.	Perl and Python. Soon's interfaces. Do	cript languages ocument Objec		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, X Advanced level Recommended Internet sources Course languag Notes: Course assessm Total number of A 66.67	ramming the cli s. Server-side pro- ponent Object M KSL, dynamic ex- l of programming literature: s and specification ge: nent f assessed studen B 15.56	ogramming, CGI, Model, Corba, dat ktensions of HTM g is expected. ons.	PHP, basics of P abase connection L.	Perl and Python. Soon's interfaces. Do	cript languages ocument Objec		
Basics of progr Procedure Calls ASP, JSP, Com Model, XML, Y Advanced level Recommended Internet sources Course languag Notes: Course assessm Total number of A 66.67 Provides: RND	ramming the cli s. Server-side pro- ponent Object M KSL, dynamic ex- l of programming literature: s and specification ge: nent f assessed studen B 15.56	ogramming, CGI, Model, Corba, dat ktensions of HTM g is expected. ons. nts: 45 C 15.56 roš-Belluš, PhD.	PHP, basics of P abase connection L.	Perl and Python. Soon's interfaces. Do	cript languages ocument Objec		

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ DST1a/01	Course name: Seminar in	theoretical informatics
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): idy period: 28	
Number of credits: 2	2	
Recommended seme	ester/trimester of the cours	e: 4.
Course level: II.		
Prerequisities:		
Conditions for cours	se completion:	
2	edges in the area of the theor rea using conference proceed	etical informatics in the seminar form. To follow lings and special journals.
Brief outline of the of Seminar is oriented to theoretical foundation	o an individual work with stu	adents which have the diploma theses in the area:
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of cačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 2	
	abs	n
	100.0	0.0
Provides: prof. RND	r. Viliam Geffert, DrSc.	
Date of last modific:	ation: 03.02.2014	
Approved prof DN	Dr. Viliam Geffert, DrSc.	

University: P. J. Šafa	árik University in Košice	
Faculty: Faculty of S	Science	
Course ID: ÚINF/ DST1b/01	Course name: Seminar in	theoretical informatics
Course type, scope a Course type: Pract Recommended cou Per week: 2 Per stu Course method: pr	ice irse-load (hours): udy period: 28	
Number of credits:	2	
Recommended sem	ester/trimester of the cours	e: 5
Course level: II.		
Prerequisities: ÚIN	F/DST1a/01	
Conditions for cour	se completion:	
current state in the a Brief outline of the	edges in the area of the theor rea using conference proceed course:	etical informatics in the seminar form. To follow ings and special journals.
theoretical foundation		actus which have the apronia theses in the area.
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil unentation - Bibliographic re	omaa theses according to recommendations of cačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 0	
	abs	n
	0.0	0.0
Provides: prof. RND	Dr. Viliam Geffert, DrSc.	
Date of last modific	ation: 03 02 2014	

University: P. J. Šafá	rik University in Košice	
Faculty: Faculty of S	cience	
Course ID: ÚINF/ DSA1a/06	Course name: Seminar on	applied informatics
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): Idy period: 28	
Number of credits: 2	2	
Recommended seme	ster/trimester of the cours	e: 4.
Course level: II.		
Prerequisities:		
Conditions for cours	se completion:	
	edges in the area of applied in g conference proceedings an	nformatics in the seminar form. To follow current d specialized journals.
	o an individual work with s	tudents which have the diploma theses related to combinatorial algorithms etc.
supervisor. Katuščák, D.: Ako př ISO 690: 1987 Docu	literature connected to Diplo sať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of kačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	ssed students: 11	
	abs	n
	90.91	9.09
Provides: doc. RNDr	. Gabriel Semanišin, PhD., I	RNDr. Tomáš Horváth, PhD.
Date of last modifica	ntion: 03.02.2014	
	Dr. Viliam Geffert, DrSc.	

University: P. J. Šaf	árik University in Košice	
Faculty: Faculty of	Science	
Course ID: ÚINF/ DSA1b/06	Course name: Seminar of	on applied informatics
Course type, scope Course type: Pract Recommended cou Per week: 2 Per st Course method: pr	ice 1rse-load (hours): udy period: 28	
Number of credits:	2	
Recommended sem	ester/trimester of the cou	rse: 5
Course level: II.		
Prerequisities: ÚIN	F/DSA1a/06	
Conditions for cour	se completion:	
2		informatics in the seminar form. To follow current and specialized journals.
	to an individual work with	students which have the diploma theses related to f combinatorial algorithms etc.
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	i literature connected to Dip vísať vysokoškolské a kvali umentation - Bibliographic	plomaa theses according to recommendations of fikačné práce, 2. vydanie Bratislava, 1998 references. Content, form and structure. of divisions and subdivisions in written documents.
Course language:		
Notes:		
Course assessment Total number of asse	essed students: 4	
	abs	n
	100.0	0.0
Provides: doc. RND	r. Gabriel Semanišin, PhD.	
Date of last modific	ation: 03.02.2014	
Approved: prof. RN	Dr. Viliam Geffert, DrSc.	

University: P. J. S	Šafárik Univers	ity in Košice						
Faculty: Faculty	of Science							
Course ID: ÚINI SPG1/05	7/ Course na	Course name: Seminar on computer graphics						
Course type, sco Course type: Pr Recommended Per week: 2 Per Course method	actice course-load (h • study period:	ours):						
Number of credi	ts: 3							
Recommended s	emester/trimes	ster of the cours	e: 4., 6.					
Course level: II.								
Prerequisities:								
Conditions for co	ourse completi	on:						
Learning outcon	nes:							
Brief outline of t Seminar is conner presents actual the algorithms of con Knowledge from	cte to the lecture eoretical and ir nputer graphics the lecture UG	nplementation pr s, geometric mode	oblems. Main go elling and realist	bal in interest is o tic drawing of sce	riented to quick enes.			
Recommended li	terature:							
Course language	•							
Notes:								
Course assessme Total number of a		ts: 33						
А	В	С	D	E	FX			
75.76	12.12	9.09	3.03	0.0	0.0			
Provides: RNDr.	Rastislav Krivo	oš-Belluš, PhD., o	doc. RNDr. Joze	f Jirásek, PhD.				
	G ag 4 ¹ or 02 02	2014						
Date of last mod	incation: 03.02	2.2014						

University: P. J. Š	afárik Universi	ty in Košice						
Faculty: Faculty of	of Science							
Course ID: ÚINF SDM1a/07	(F/ Course name: Seminár on data mining							
Course type, scop Course type: Pra Recommended o Per week: 2 Per Course method:	ctice ourse-load (ho study period:	ours):						
Number of credit	s: 2							
Recommended se	mester/trimest	ter of the cours	e: 4.					
Course level: II.								
Prerequisities:								
Conditions for co	urse completio	on:						
Learning outcom Deepened knowle		overview of the	e state-of-the-art	in the area of dat	ta mining.			
Brief outline of th The seminar is de		and discussion of	of recent advances	s in the field of d	lata mining.			
Recommended life Jiawei Han, Mich Kaufmann, ISBN Pang-Ning Tan, M ISBN 978-032132 Ethem Alpazdin. 2004.	eline Kamber, J 978-012381479 Iichael Steinbao 21367, 2005.	91, 2011. ch, Vipin Kuma	r. Introduction to	Data Mining. A	ddison-Wesley			
Course language:								
Notes:								
Course assessmer Total number of a		s: 23						
A	В	С	D	Е	FX			
47.83	8.7	21.74	13.04	8.7	0.0			
Provides: RNDr. 7	Fomáš Horváth	, PhD.			·			
Date of last modi	fication: 03 02	2014						
Date of last moun	ICation. 05.02.	2014						

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚINF/ DSL1a/01					
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pr	ce irse-load (hours): idy period: 28				
Number of credits: 2	2				
Recommended seme	ester/trimester of the cours	e: 4.			
Course level: II.					
Prerequisities:					
Conditions for cour	se completion:				
form. To follow curr	edges in the area of logic of ir ent state in the area using con	formation and knowledge systems in the seminar nference proceedings and special journals.			
Seminar is oriented t	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.				
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of kačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.			
Course language:					
Notes:					
Course assessment Total number of assessed students: 5					
abs n					
	100.0	0.0			
Provides: RNDr. Pet	er Gurský, PhD., RNDr. Ton	náš Horváth, PhD.			
Date of last modification: 03.02.2014					
Approved: prof. RN	Approved: prof. RNDr. Viliam Geffert, DrSc.				

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚINF/ DSL1b/01					
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce rse-load (hours): ıdy period: 28				
Number of credits: 2	2				
Recommended seme	ester/trimester of the cours	e: 5.			
Course level: II.					
Prerequisities: ÚINI	F/DSL1a/01				
Conditions for cours	se completion:				
form. To follow curr Brief outline of the o	edges in the area of logic of ir ent state in the area using con- course:	nformation and knowledge systems in the seminar inference proceedings and special journals.			
logic of information	logic of information systems.				
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifil mentation - Bibliographic re	omaa theses according to recommendations of kačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.			
Course language:					
Notes:					
Course assessment Total number of assessed students: 12					
	abs n				
	100.0	0.0			
Provides: RNDr. Pet	er Gurský, PhD., RNDr. Ton	náš Horváth, PhD.			
Date of last modifica	ation: 03.02.2014				
Approved: prof. RNDr. Viliam Geffert, DrSc.					
11 ·····					

University: P. J. Šafa	árik University in Košice				
Faculty: Faculty of S					
Course ID: ÚINF/ DSN1a/04					
Course type, scope a Course type: Pract Recommended cou Per week: 2 Per sta Course method: pr	ice irse-load (hours): udy period: 28				
Number of credits:	2				
Recommended sem	ester/trimester of the course	e: 4.			
Course level: II.					
Prerequisities:					
Conditions for cour	se completion:				
2	edges in the area of neural n	etworks and stringology in the seminar form. To proceedings and special journals.			
Brief outline of the Seminar is oriented the neural networks and	to an individual work with stu	idents which have the diploma theses in the area:			
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Diplo ísať vysokoškolské a kvalifik umentation - Bibliographic re	omaa theses according to recommendations of ačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.			
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 1				
	abs n				
	100.0	0.0			
Provides: doc. RND	r. Gabriela Andrejková, CSc.				
Date of last modific	ation: 03.02.2014				

	COURSE INFORM			
University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚINF/ DSN1b/04	6 65			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28			
Number of credits: 2				
Recommended seme	ster/trimester of the cours	e: 5		
Course level: II.				
Prerequisities: ÚINF	C/DSN1a/04			
Conditions for cours	e completion:			
2	n the area using conference p	etworks and stringology in the seminar form. To proceedings and special journals.		
Seminar is oriented to neural networks and		idents which have the diploma theses in the area:		
supervisor. Katuščák, D.: Ako pí ISO 690: 1987 Docu	literature connected to Diplo sať vysokoškolské a kvalifik mentation - Bibliographic re	omaa theses according to recommendations of cačné práce, 2. vydanie Bratislava, 1998 ferences. Content, form and structure. divisions and subdivisions in written documents.		
Course language:				
Notes:				
Course assessment Total number of asses	ssed students: 0			
	abs n			
	0.0 0.0			
Provides: doc. RNDr	. Gabriela Andrejková, CSc.			
Date of last modifica	ition: 03.02.2014			
Approved: prof. RNI	Dr. Viliam Geffert, DrSc.			
Approveu: prot. KINI				

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚINF/ DSB1a/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	ester/trimester of the cours	e: 4.		
Course level: II.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the of Seminar is oriented to the security of comp	o an individual work with st	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 assessed students: 0				
	abs	n		
	0.0	0.0		
Provides: doc. RNDr. Jozef Jirásek, PhD.				
Provides: doc. RND	. JOZET JITASEK, FIID.			
Date of last modific				

University: P. J. Šafa	árik University in Košice			
Faculty: Faculty of S	Science			
Course ID: ÚINF/ Course name: Seminar on security of computer networks OSB1b/01				
Course type, scope a Course type: Pract Recommended cou Per week: 2 Per stu Course method: pr	ice urse-load (hours): udy period: 28			
Number of credits:	2			
Recommended sem	ester/trimester of the cour	se: 5.		
Course level: II.				
Prerequisities: ÚIN	F/DSB1a/01			
Conditions for cour	se completion:			
	to study new knowledges i current state in the area usi	n the area of cryptology and security of computer ng conference proceedings and special journals.		
	to an individual work with s	students which have the diploma theses in the area:		
supervisor. Katuščák, D.: Ako p ISO 690: 1987 Docu	literature connected to Dip ísať vysokoškolské a kvalit mentation - Bibliographic	lomaa theses according to recommendations of Tkačné práce, 2. vydanie Bratislava, 1998 references. Content, form and structure. f divisions and subdivisions in written documents.		
Course language:				
Notes:				
Course assessment Total number of asse	essed students: 3			
	abs n			
	100.0	0.0		
Provides: doc. RND	r. Jozef Jirásek, PhD.			
Data of last modifie				
Date of last modific	ation: 03.02.2014			

University: P. I. Šafá	nrik University in Košice		
Faculty: Faculty of S			
Course ID: ÚINF/ SDI1a/03	urse ID: ÚINF/ Course name: Seminar to diploma theses in informatics		
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (hours): ıdy period: 28		
Number of credits: 2	2		
Recommended seme	ester/trimester of the co	urse: 4.	
Course level: II.			
Prerequisities: ÚINF	7/PDSI1/04		
Conditions for cours	se completion:		
Learning outcomes: Monitoring and publ		lone so fare on thesis preparation	
recognition, the follo thirty pages) and at le area, possible researc judged more strictly). help and user friendly For both parts there w	compulsory theoretical p owing is necessary: a deta east twenty pages of text th goals, own results are v . For the SW part: a tested y user interface not necess will be an oral presentation	bart and may also contain a software part. To gain ailed compilation of studied literature (a minimum of containing the candidate's own views of the problem welcome (if the thesis is purely theoretical, this will be limplementation (must conform to user requirements, ssary at this stage) and access to source texts. on and discussion.	
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 110		
	abs n		
97.27 2.73			
	91.21		
		CSc., doc. RNDr. Jozef Jirásek, PhD.	
	r. Gabriela Andrejková, C		

	árik University in Košic	2e		
Faculty: Faculty of Science				
Course ID: ÚINF/ SDI1b/00				
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ice irse-load (hours): idy period: 28			
Number of credits: 2	2			
Recommended seme	ester/trimester of the c	course: 5.		
Course level: II.				
Prerequisities: ÚINF	F/SDI1a/03			
Conditions for cours	se completion:			
Learning outcomes: Monitoring and public presentation of work done so fare on thesis preparation				
recognition, the follo thirty pages) and at le area, possible researc	owing is necessary: a de east twenty pages of te ch goals, own results are	part and may also contain a software part. To gain etailed compilation of studied literature (a minimum of xt containing the candidate's own views of the problem e welcome (if the thesis is purely theoretical, this will be		
help and user friendly		ed implementation (must conform to user requirements, cessary at this stage) and access to source texts. tion and discussion.		
help and user friendly	y user interface not nec will be an oral presenta	cessary at this stage) and access to source texts.		
help and user friendly For both parts there	y user interface not nec will be an oral presenta	cessary at this stage) and access to source texts.		
help and user friendly For both parts there v Recommended litera	y user interface not nec will be an oral presenta	cessary at this stage) and access to source texts.		
help and user friendly For both parts there v Recommended litera Course language:	y user interface not nec will be an oral presenta ature:	cessary at this stage) and access to source texts.		
help and user friendly For both parts there we Recommended litera Course language: Notes: Course assessment	y user interface not nec will be an oral presenta ature:	cessary at this stage) and access to source texts.		
help and user friendly For both parts there we Recommended litera Course language: Notes: Course assessment	y user interface not nec will be an oral presenta ature: essed students: 103	cessary at this stage) and access to source texts. tion and discussion.		
help and user friendly For both parts there we Recommended litera Course language: Notes: Course assessment Total number of asse	y user interface not nec will be an oral presenta ature: essed students: 103 abs 100.0	n		
help and user friendly For both parts there we Recommended liters Course language: Notes: Course assessment Total number of asse	y user interface not nec will be an oral presenta ature: essed students: 103 abs 100.0 r. Gabriela Andrejková,	n 0.0		

University: P. J. Šafá	arik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚINF/ SDI1c/00	1				
Course type, scope a Course type: Practi Recommended cou Per week: 2 Per stu Course method: pro	ce irse-load (hours): idy period: 28				
Number of credits: 2	2				
Recommended seme	ester/trimester of the cour	rse: 6.			
Course level: II.					
Prerequisities: ÚINI	F/SDI1b/00				
Conditions for cours	se completion:				
Learning outcomes: Monitoring and publ		ne so fare on thesis preparation			
recognition, the follo thirty pages) and at la area, possible researce judged more strictly) help and user friendl	compulsory theoretical par owing is necessary: a detail east twenty pages of text co ch goals, own results are we . For the SW part: a tested in	t and may also contain a software part. To gain ed compilation of studied literature (a minimum of ontaining the candidate's own views of the problem lcome (if the thesis is purely theoretical, this will be nplementation (must conform to user requirements, ary at this stage) and access to source texts. and discussion.			
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of assessed students: 90					
		abs n			
	abs	n			
	abs 100.0	n 0.0			
	100.0				
	100.0 r. Gabriela Andrejková, CS	0.0			

University: P. J. Ša	afárik Univers	ity in Košice			
Faculty: Faculty o	f Science				
Course ID: ÚINF/ SPB/12	Course na	Course name: Software product in a bussiness environment			
Course type, scop Course type: Lec Recommended co Per week: 0 / 2 P Course method:	eture / Practice ourse-load (h er study perio	ours):			
Number of credits	s: 2				
Recommended ser	mester/trimes	ster of the cours	e: 3., 5.		
Course level: II.					
Prerequisities:					
Conditions for con	urse completi	on:			
Learning outcome	es:				
Brief outline of th	e course:				
Recommended lite	erature:				
Course language:					
Notes:					
Course assessmen Total number of as		ts: 9			
А	В	С	D	Е	FX
100.0	0.0	0.0	0.0	0.0	0.0
Provides: Mgr. Ale	exander Szaba	ri, PhD.			
Date of last modif	ication: 03.02	2.2014			
Approved: prof. R	NDr. Viliam (Geffert, DrSc.			

University: P. J. Šafá	rik Univers	ity in Košice	
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ TVa/11	Course na	me: Sports Activities I.	
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (h dy period:	ours):	
Number of credits: 2	2		
Recommended seme	ster/trimes	ster of the course: 1.	
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 asse	ssed studen	ts: 7160	
abs		n	neabs
88.42		7.82	3.76
Ivan Matúš, PhD., Mg	gr. Zuzana l	o, doc. PhDr. Ivan Šulc, CSc., doc. Küchelová, Mgr. Peter Bakalár, Ph PhD., Mgr. Agata Horbacz, PhD.,	nD., doc. PaedDr. Ivan Uher,
Date of last modifica	tion: 15.01	.2014	
Annroved • prof RNI	Dr. Viliom (Coffort DrSo	

University: P. J. Šafá	rik Univers	ity in Košice			
Faculty: Faculty of S	cience				
Course ID: ÚTVŠ/ TVb/11	Course na	me: Sports Activities II.			
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (h dy period:	ours):			
Number of credits: 2	2				
Recommended seme	ster/trimes	ter of the course: 2.			
Course level: I., I.II.,	II.				
Prerequisities:					
Conditions for cours	e completi	on:			
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed studen	ts: 6364			
abs	abs n neabs				
84.95	84.95 11.06 3.99				
Ivan Matúš, PhD., Mg	gr. Zuzana l	, doc. Mgr. Rastislav Feč, PhD., c Küchelová, doc. PaedDr. Ivan Uhe PhD., Mgr. Agata Horbacz, PhD.,	er, PhD., Mgr. Peter Bakalár,		
Date of last modifica	tion: 15.01	.2014			
Annroved · prof RNI	Dr. Viliana (Coffort DrSo			

University: P. J. Šafá	rik Universi	ty in Košice		
Faculty: Faculty of S	cience			
Course ID: ÚTVŠ/ TVc/11	Course name: Sports Activities III.			
Course type, scope a Course type: Practic Recommended cou Per week: 2 Per stu Course method: pre	ce rse-load (ho idy period: 2	urs):		
Number of credits: 2	2			
Recommended seme	ester/trimest	er of the course: 3.		
Course level: I., I.II.,	II.			
Prerequisities:				
Conditions for cours	se completio	n:		
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students	s: 4191		
abs n neabs				
89.91 4.72 5.37				
Mgr. Ivan Matúš, PhI	D., Mgr. Zuza		doc. PhDr. Ivan Šulc, CSc., an Uher, PhD., PaedDr. Milena PhD., Mgr. Marek Valanský, Mgr	
Date of last modifica	tion: 15.01.	2014		

University: P. J. Šafá	rik Univers	ity in Košice			
Faculty: Faculty of S	cience				
Course ID: ÚTVŠ/ TVd/11	Course name: Sports Activities IV.				
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (h dy period:	ours):			
Number of credits: 2	2				
Recommended seme	ster/trimes	ster of the course: 4.			
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 asse	ssed studen	ts: 3363			
abs n neabs					
86.14 6.78 7.08					
Ivan Matúš, PhD., Mg	gr. Zuzana l	o, doc. Mgr. Rastislav Feč, PhD., c Küchelová, PaedDr. Milena Švedc hD., Mgr. Agata Horbacz, PhD., N	ová, PhD., Mgr. Peter Bakalár,		
Date of last modifica	tion: 15.01	.2014			
Annuared prof BNDr Viliam Coffort DrSa					

SMI1/08						
SMI1/08						
~						
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 cour	rse: 4.					
Course level: II.						
Prerequisities:						
Conditions for course completion:						
To understand probability and statistical terms a Make students familiar with the base stochastic a and data processing. Brief outline of the course: Randomness, probability. Laws of probability of and dependency. Samples, estimates and tests Bayes theory of decision. Pseudorandom values	and statistical meth distributions, chara of hypotheses. M	acteristics of loca odeling of deper	tion, variability			
Recommended literature: 1. TÖRÖK Cs: Úvod do teórie pravdepodobnos 2. ALPAYDIN E.: Introduction To Machine Lea - http://www2.chass.ncsu.edu/garson/pa765/stat - http://www.statsoft.com/textbook/stathome.htt - http://www.r-project.org/	arning, MIT Press, tnote.htm		e, 1992			
Course language:						
Notes: Course assessment Total number of assessed students: 430						
A B C	D	Е	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. Š	afárik Univers	ity in Košice				
Faculty: Faculty of	of Science					
Course ID: ÚINF SVK1/00	ÚINF/ Course name: Student scientific conference					
Course type, scop Course type: Recommended of Per week: Per s Course method:	course-load (h tudy period: present					
Number of credit						
Recommended se	emester/trimes	ster of the cours	e: 4., 6.			
Course level: I., I	I					
Prerequisities:						
Conditions for co	urse completi	on:				
Learning outcom	es:					
Brief outline of th	ne course:					
Recommended lit	terature:					
Course language:						
Notes:						
Course assessmen Total number of a		ts: 101				
A B C D E FX						
100.0 0.0 0.0 0.0 0.0 0.0						
Provides:						
Date of last modi	fication: 03.02	2.2014				
Approved: prof. H	RNDr. Viliam (Geffert, DrSc.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚTVŠ/ LKSp//13				
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per st Course method: pr	ce rse-load (hours): tudy period: 504			
Number of credits: 2	2			
Recommended seme	ester/trimester of the cours	e:		
Course level: I., II.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended literature:				
Course language:				
Notes:				
Course assessment Total number of asse	ssed 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. Šafá	arik University in Košice				
Faculty: Faculty of S	Science				
Course ID: ÚTVŠ/ KP/12					
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ce irse-load (hours): tudy period: 504				
Number of credits:	2				
Recommended seme	ester/trimester of the co	ourse:			
Course level: I., II.					
Prerequisities:					
Conditions for cour	se completion:				
Learning outcomes:					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 185				
abs n					
41.62 58.38					
Provides: Mgr. Marek Valanský					
Date of last modific	ation: 15.01.2014				
Approved: prof. RN	Dr. Viliam Geffert, DrSo).			

University: P. J.	Šafárik Univers	ity in Košice				
Faculty: Faculty of Science						
Course ID: ÚINI SLO1a/06	F/ Course na	Course name: Symbolic logic				
Course type, sco Course type: La Recommended Per week: 2 / 1 Course method	ecture / Practice course-load (h Per study peri	e ours):				
Number of credi	i ts: 5					
Recommended s	emester/trimes	ster of the cours	e: 2.			
Course level: I.,	II.					
Prerequisities:						
Conditions for c	ourse completi	on:				
provability, satis	basic notions of fiability, term, f		predicate logic	c - sentence, se	ntence scheme,	
Brief outline of t Predicate logic – Interpretation, tru	logic language			mula. Axioms, pr	oof, provability.	
Recommended I GOLDSTERN M Mathematical Lo http://cs.ics.upjs.	1., JUDAH H.: ogic, A K Peters	, Wellesley, Mas	sachusetts, 1995		in	
Course language	2:					
Notes:						
Course assessment Total number of assessed students: 324						
А	В	С	D	Е	FX	
18.21 7.41 13.58 12.35 33.33 15.12						
18.21	/.41		12.55	55.55	15.12	
18.21 Provides: doc. R		Krajči, PhD.	12.55	55.55	15.12	
	NDr. Stanislav	_	12.55		15.12	

University: P. J. Šafá	nrik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚTVŠ/ ZKLS//13	β				
Course type, scope a Course type: Practi Recommended cou Per week: 36 Per s Course method: pr	ce rse-load (hours): tudy period: 504				
Number of credits:	2				
Recommended seme	ester/trimester of the cours	e:			
Course level: I., II.					
Prerequisities:					
Conditions for cour	se completion:				
Learning outcomes:					
Brief outline of the	course:				
Recommended liter	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	essed students: 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. RNDr. Viliam Geffert, DrSc.					