University: P. J. Šafárik University in Košice
Faculty: Faculty of Science

Course ID: ÚINF/ Course name: ABAP basics

ABSP/14

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

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

Course level: I., II., N

Prerequisities: ÚINF/ZTSP/14 or ÚINF/SAP1a/06

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Principles of programming in ABAP, declaration of variables, the basic syntax of the language ABAP Open SQL, ABAP Workbench navigation, ABAP editor, arithmetic, logic conditions, string operations, cycles, test programs using a debugger, an overview of the most important commands of ABAP, definition elementary and structured data objects, functional groups and function modules.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 24

abs	n
95.83	4.17

Provides: RNDr. Štefan Pero

Date of last modification: 18.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: ABAP object and dialog programming OPSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 3 / 1 Per study period: 42 / 14 Course method: present **Number of credits: 5 Recommended semester/trimester of the course:** Course level: I., II., N Prerequisities: ÚINF/RASP/14 **Conditions for course completion: Learning outcomes: Brief outline of the course:** Screen, function codes, local and global classes, inheritance, polymorphism. **Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 20 abs n 50.0 50.0 Provides: RNDr. Štefan Pero Date of last modification: 18.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ C

Course name: ABAP reporting

RASP/14

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities: ÚINF/ABSP/14 or ÚINF/ABA/08

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Reading database tables, selection screens, events, declarations and branching of programs, working with internal tables, function modules: upload, download and module creation, code structure, forms and includes.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 20

abs	n
80.0	20.0

Provides: RNDr. Štefan Pero

Date of last modification: 18.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course name: Academic English

PFAJAKA/07

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of credits: 2

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities:

Conditions for course completion:

kontrolný písomný test, aktivita na hodine

záverečný písomný test povolené max. 2 absencie

stupnica hodnotenia: A 93-100, B 86-92, C 79-85, D 72-78, E 65-71, FX 64 a menej

aktivita na hodine

predmet končí hodnotením, t.j. povolený je 1 opravný test

Learning outcomes:

Osvojenie si a rozvíjanie užitočných techník akademického písomného ako aj ústneho prejavu so zameraním na rozvoj jazykových kompetencií študenta, na upevňovanie a rozvíjanie všetkých jazykových zručností na stredne pokročilej až pokročilej úrovni ovládania jazyka (B2/C1 podľa Spoločného európskeho referenčného rámca pre jazyky). Predmet kladie dôraz na používanie akademickej angličtiny v akademickom prostredí.

Brief outline of the course:

Akademická angličtina a jej charakteristiky

Čítanie odborných článkov, analýza, parafrázovanie

Spájacie slová v akademickom písaní

Formálna a neformálna angličtina a ich črty

Vyjadrovanie príčiny, následku v akademickom jazyku

Čítanie odbornej publikácie, analýza, parafrázovanie

Slovotvorba v anglickom jazyku- predpony a prípony

Ako prezentovať v angličtine

Parafrázovanie a definovanie

Ako písať abstrakt

Slovosled v akademickom diškurze

Recommended literature:

Seal B.: Academic Encounters, CUP, 2002

T. Armer: Cambridge English for Scientists, CUP 2011

M. McCarthy M., O'Dell F. - Academic Vocabulary in Use, CUP 2008

Zemach, D.E, Rumisek, L.A: Academic Writing, Macmillan 2005

Olsen, A.: Active Vocabulary, Pearson, 2013

www.bbclearningenglish.com

Cambridge Academic Content Dictionary, CUP, 2009

Course language:

Notes:

Course assessment

Total number of assessed students: 292

A	В	С	D	Е	FX
29.11	22.26	16.1	11.3	8.22	13.01

Provides: PaedDr. Gabriela Bednáriková

Date of last modification: 06.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Administration and security of computer networks SOP1/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 1/2 Per study period: 14/28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 6. Course level: I. Prerequisities: ÚINF/SKB1/13 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0

Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Rastislav Krivoš-Belluš, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Administration of GNU/Linux ADL1/13 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: 6. Course level: I. **Prerequisities:** ÚINF/AOS1/07 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: RNDr. PhDr. Peter Pisarčík Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Administration of IBM AIX/Tivoli AIX1a/08 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 0/2 Per study period: 0/28Course method: present Number of credits: 2 **Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 66 \mathbf{C} Α В D Е FX 71.21 24.24 4.55 0.0 0.0 0.0 Provides: RNDr. Tomáš Horváth, PhD., RNDr. Jozef Studenovský, CSc. Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Administration of IBM AIX/Tivoli AIX1b/08 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 0/2 Per study period: 0/28Course method: present Number of credits: 2 Recommended semester/trimester of the course: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 43 C Α В D Е FX 65.12 13.95 11.63 6.98 0.0 2.33 Provides: RNDr. Tomáš Horváth, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Course name:

AOS1/07

Course name: Administration of OS

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: 5.

Course level: I., II.

Prerequisities: ÚINF/OSY1/11

Conditions for course completion:

Learning outcomes:

To be able to install Linux based system, divide disks, to know how to install, configure and manage several network deamons.

Brief outline of the course:

Introduction to OS Linux, history, communication interfaces, directory structure, devices, user administration, UID, GID, permissions, text editors, common commands, installation, LILO, GRUB, configuration after installation, division of disk space, mounting, backups, starting system, crontab, network connection configuration, network monitoring, firewall. Deamons and systems services SSH, Apache, FTP, Samba, NFS, NTP, postfix/sendmail, DHCP, DNS. Compiling the Linux core, configuration, testing.

Recommended literature:

NEMETH, E., SNYDER, G., HEIN, T. R.: Linux Administration Handbook, Prentice Hall PTR, 2002

SIEVER, E., WEBER, A., FIGGINS, S., LOVE, R., ROBBINS, A.: Linux in a Nutshell, 5th Edition, 2005

Course language:

Notes:

Course assessment

Total number of assessed students: 64

A	В	С	D	Е	FX
51.56	23.44	3.13	6.25	7.81	7.81

Provides: RNDr. Peter Gurský, PhD., RNDr. JUDr. Pavol Sokol, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Administration of SAP system ASSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 4., 6. Course level: I., II., N Prerequisities: ÚINF/ZLSP/14 **Conditions for course completion: Learning outcomes: Brief outline of the course:** Fundamentals (System Logon, Configuring SAP Logon), Starting and Stopping (Starting SAP/ Database, Stopping SAP / Database), System configuration (Parameters in SAP, Parameters in Database, Background Tasks(Scheduling Background Jobs, Monitoring of Background Jobs), Database Administration (Extend Tablespaces). **Recommended literature:** Course language: **Notes: Course assessment** Total number of assessed students: 11 abs n 100.0 0.0

Approved: doc. RNDr. Gabriel Semanišin, PhD.

Provides: RNDr. Štefan Pero

Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Administration of Windows ADW1/13 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:** 5. Course level: L **Prerequisities:** ÚINF/OSY1/13 and ÚINF/SOS1/13 **Conditions for course completion:** Practics activity, home assignment, test. Final test. **Learning outcomes:** Deep insight into system concepts and components of operating system Windows along with the practical techniques concerning with configuration and management corresponding to the professional administrator level. Completing the course allows to become oriented and experienced in the Active Directory administration, net services configuration and management and in the virtualization concepts. **Brief outline of the course:** Active Directory infrastructure and its management and configuration. Zone configuration, DNS setup, replication. Trust configuration. Roles and services. Account management, group policy, auditing. Certification authority and management. Network configuration and network services. DHCP, routing, firewall, remote access configuration. Monitoring and security breach handling. Licences for multiple remote access. Website configuration and management. FTP and mail server configuration. Data Storage configuration, filesystems and backup, network services. Installing and configuring devices, monitoring system health and settings. System log. Creating system images and image recovery. Installing and activating distribution. Virtualization support, installing and configuring virtual machines. Configuring access to network, memory and disk resources. Clustering. **Recommended literature:** 1. J. C. Mackin, T. Northrup: MCTS self-paced training kit (exam 70-642): configuring Windows server 2008 network infrastructure, Microsoft Press, 2008, ISBN 0-7356-2512-3. 2. S. Reimer, M. Mulcare, C. Kezema, B. Wright: Windows server 2008 Active Directory resource kit, Microsoft Press, 2008, ISBN 0-7356-2515-8. 3. D. Holme: Windows administration resource kit: productivity solutions for IT professionals, Microsoft Press, 2008, ISBN 0-7356-2431-3.

Course language:

Notes:

Course assessment Total number of assessed students: 0						
A	В	С	D	Е	FX	
0.0	0.0	0.0	0.0	0.0	0.0	

Provides: RNDr. Róbert Novotný, PhD., PaedDr. Ján Guniš, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Algorithms and data structures **ASU1/13** Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 4., 6. Course level: I. Prerequisities: ÚINF/PAZ1b/03 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 176 C Α В D Е FX 10.8 9.66 14.2 21.02 38.64 5.68 Provides: RNDr. Rastislav Krivoš-Belluš, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Applications of Numerical Methods

ANM/13

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:

Continuous evaluation is based on students' activity in the classroom and work on assignments. Examination

Learning outcomes:

To acquaint students with basic numerical methods of calculus and algebra, which are necessary for the subsequent course of computational physics.

Brief outline of the course:

Computational solutions of physical problems and computational errors. Approximation and interpolation of functions. Fast Fourier transform. Linear systems of equations - direct and itterative methods. Nonlinear systems of equations. Conditions of convergence and assessment of error. Numerical derrivatives and quadrature. Matrix operations, determinants and inverse matrices. Eigenvalues and eigenvectors - partial and complete problem.

Recommended literature:

- 1. C. Pozrikidis: Numerical Computation in Science and Engineering, Oxford University Press, 1998
- 2. R.W. Hamming: Numerical Methods for Scientists and Engineers, Dover, 1973.
- 3. A.L. Garcia: Numerical Methods for Physics, Prentice-Hall, 1994.

Course language:

Notes:

Course assessment

Total number of assessed students: 3

A	В	С	D	Е	FX
0.0	0.0	0.0	66.67	33.33	0.0

Provides: doc. RNDr. Milan Žukovič. PhD.

Date of last modification: 31.01.2014

Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Bachelor Thesis and its Defence **BPO/14** Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of credits: 4** Recommended semester/trimester of the course: Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 1 \mathbf{C} Α В D Е FX 0.0 100.0 0.0 0.0 0.0 0.0 **Provides:** Date of last modification: 17.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Basic methods in chaos theory ZTC1/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present **Number of credits: 4** Recommended semester/trimester of the course: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: doc. Ing. Štefánia Gallová, CSc. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Co

Course name: Basic methods of data minig

ZDD1/12

Course type, scope and the method:

Course type: Lecture / Practice

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

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 5.

Course level: I.

Prerequisities:

Conditions for course completion:

Final project and examination

Learning outcomes:

Understanding of basic concepts from the areas of data mining and machine learning and basic usage of freely available softwares.

Brief outline of the course:

During the course, students become familiar with the following concepts: regression vs. classification; modeling; overfitting vs. underfitting and regularization; CRISP-DM methodology; data pre-processing: sampling, dimensionality reduction, validation of a model; basic data types: relational vs. multi-relational, time-series; different applications and basics of freewares such as for example Weka and RapidMiner.

Recommended literature:

- 1. Jiawei Han, Micheline Kamber, Jian Pei. Data Mining: Concepts and Techniques. Morgan Kaufmann, ISBN 978-0123814791, 2011.
- 2. Pang-Ning Tan, Michael Steinbach, Vipin Kumar. Introduction to Data Mining. Addison-Wesley, ISBN 978-0321321367, 2005.
- 3. Ethem Alpazdin. Introduction to Machine Learning, The MIT Press, ISBN 978-0-262-01211-9, 2004.

Course language:

Notes:

Course assessment

Total number of assessed students: 28

A	В	С	D	Е	FX
10.71 10.71		14.29	25.0	28.57	10.71

Provides: RNDr. Tomáš Horváth, PhD.

Date of last modification: 28.02.2014

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Co

Course name: Basics of Molecular Simulation

ZBSIM/13

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 4.

Course level: L

Prerequisities:

Conditions for course completion:

Written test and elaboration of referate.

Exam.

Learning outcomes:

Introduction to the principles of computational simulations of biomolecular objects from point of view of komplex IT application in practice.

Brief outline of the course:

Essential structural characteristics of biomolecules. Foldamers - the definition and its importance. Computational predictions of folding as optimization problem. Propagators - algorithms for the time evolution and their use in molecular dynamics. Monte Carlo methods - algorithms and paralelisation. Computational challenges of biomolecular simulations - description of chemical reactions, free energy evaluation, protein folding. Simulations of rare events. Computational complexity, less traditional optimization techniques and heuristics.

Recommended literature:

- Schlick, Tamar. Molecular Modeling and Simulation. 1st ed. Springer, 2002.
- Allen, M. P., and D. J. Tildesley. Computer Simulation of Liquids. Oxford University Press, USA, 1989.

Course language:

Notes:

Course assessment

Total number of assessed students: 2

A	В	С	D	Е	FX
0.0	100.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Jozef Uličný, CSc.

Date of last modification: 10.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Coding and multimedial data transition KMU1/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 1 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 100.0 0.0 0.0 Provides: doc. RNDr. Stanislav Krajči, PhD., doc. RNDr. Jozef Jirásek, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: KGER/ **Course name:** Communication Competence in the German Language NJKK/07 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 42 \mathbf{C} Α В D Е FX 57.14 14.29 7.14 4.76 14.29 2.38 Provides: Mgr. Eva Černáková, PhD. Date of last modification: 05.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course n

PFAJKKA/07

Course name: Communicative Competence in English

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of credits: 2

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities:

Conditions for course completion:

ontrolný písomný test, aktivita na hodine

záverečný písomný test

stupnica hodnotenia A 93-100, B 86 - 92, C 79-85, D 72-78, E 65-71, FX menej ako 64

Povolené max. 2 absencie počas semestra

predmet končí hodnotením, možnosť jedného opravného testu

Learning outcomes:

Uplatnenie a aktívne používanie svojich teoretických vedomostí v praktických komunikačných situáciách. Zdokonalenie jazykových vedomostí a zručností študenta, rečovej, pragmatickej a vecnej kompetencie, predovšetkým zlepšujú komunikáciu, schopnosť prijímať a formulovať výpovede, efektívne vyjadrovať svoje myšlienky ako aj orientovať sa v obsahovom pláne výpovede. Precvičovanie rečových intencií kontaktných (napr. pozdravy, oslovenia, pozvanie, oslovenie), informatívnych (napr. získavanie a podávanie informácií, vyjadrenie priestorových a časových vzťahov), regulačných (napr. prosba, poďakovanie, zákaz, pochvala, súhlas, nesúhlas) a hodnotiacich (napr. vyjadrenie vlastného názoru, stanoviska, želania, emócií). Výsledkom budovania praktickej jazykovej kompetencie majú byť vedomosti a zručnosti zodpovedajúce požiadavkám a kritériám dokumentu Spoločný európsky referenčný rámec pre vyučovanie jazykov - úroveň B2.

Brief outline of the course:

Rodina, jej formy a problémy

Vyjadrovanie pocitov a dojmov

Dom, bývanie a budúcnosť

Formy a dialekty v anglickom jazyku

Život v meste a na vidieku

Kolokácie a idiomy, zaužívané slovné spojenia

Prázdniny a sviatky vo svete

Životné prostredie a ekológia

Výnimky zo slovosledu

Frázové slovesá a ich použitie

Charakteristiky neformálneho diškurzu

Recommended literature:

McCarthy M., O'Dell F.: English Vocabulary in Use, 1994

Misztal M.: Thematic Vocabulary, 1998

Fictumova J., Ceccarelli J., Long T.: Angličtina, konverzace pro pokročilé, Barrister and

Principal, 2008

Peters S., Gráf T.: Time to practise, Polyglot, 2007

www.bbclearningenglish.com

Jones L.: Communicative Grammar Practice, CUP, 1985 Alexander L.G.: Longman English Grammar, Longman, 1988

Course language:

Notes:

Course assessment

Total number of assessed students: 174

A	В	С	D	Е	FX
36.78	22.41	18.39	9.77	8.05	4.6

Provides: PaedDr. Gabriela Bednáriková, Mgr. Silvia Marcinová, PhD.

Date of last modification: 06.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/ Course name: Communicative Grammar in English

PFAJGA/07

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 2 Per study period: 28 Course method: combined, present

Number of credits: 2

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities:

Conditions for course completion:

kontrolná písomná práca, záverečná písomná práca

stupnica hodnotenia: A 93-100, B 86-92, C 79-85, D 65-71, 64 a menej - FX

aktivita na hodinách, povolené 2 absencie

predmet je ukončený hodnotením, možnosť jedného opravného testu

Learning outcomes:

Identifikovanie a odstránenie najfrekventovanejších gramatických chýb v ústnom prejave, ako aj v písomnom styku. Rozvoj jazykových kompetencií študenta so zameraním na funkcie gramatiky anglického jazyka v každodennej interakcii, v komunikačnom akte na stredne pokročilej úrovni ovládania jazyka (B2 podľa Spoločného európskeho referenčného rámca pre jazyky).

Brief outline of the course:

Zvieratá a rastliny na zemi

Zločin a trest

Cestovanie po mori a vzduchom

Jedlá a reštaurácie, národná kuchyňa

Vzdelanie na vysokých školách

História a viera

Vybrané problémy anglickej výslovnosti, gramatiky (nepriama reč, slovotvorba, predložkové väzby, anglická syntax, kondicionály v angličtine a slovnej zásoby príslušného zamerania Vybrané funkcie praktického odborného jazyka potrebné na prácu s odborným textom

Recommended literature:

Misztal M.: Thematic Vocabulary, 1994

McCarthy, O'Dell: English Vocabulary in Use, 1994

Alexander L.G.: Longman English Grammar, Longman, 1988 Jones I. - Communicative Grammar Practice, CUP, 1992

Vince M.: Macmillan Grammar in Context, Macmillan, 2008

www.bbclearningenglish.com

Gráf T., Peters S.: Time to practise, Polyglot, 2007

Course langua	ge:				
Notes:				_	
Course assessn Total number o	nent of assessed studen	ts: 378			
A	В	С	D	Е	FX
39.42	18.25	17.2	8.73	5.82	10.58
Provides: Paed	Dr. Gabriela Bed	náriková			
Date of last mo	odification: 06.02	2.2014			
Approved: doc	. RNDr. Gabriel S	Semanišin, PhD.			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Cour

Course name: Computational Physics I

POF1a/99

Course type, scope and the method:

Course type: Lecture / Practice Recommended course-load (hours):

Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 4.

Course level: I., III.

Prerequisities:

Conditions for course completion:

Continuous evaluation is based on students' activity in the classroom and work on assignments. Examination and assignments submitted electronically with the attached computer code.

Learning outcomes:

To teach students to use computer as a tool of modeling of physical reality.

Brief outline of the course:

Introduction to dynamical systems. Numerical solution of ordinary differential equations (ODE) with initial value. Boundary value problems for ODE. Discrete schemes for partial differential equations (PDE). Numerical solution of PDE. Finite difference methods, consistency, convergence, stability. Eliptic and parabolic PDE. Introduction to Monte Carlo (MC) method and applicactions in statistical physics. MC simulations of lattice spin systems and stochastic processes.

Recommended literature:

- 1. C. Pozrikidis: Num. Comp. in Science and Engineering, Oxford Univ. Press, 1998.
- 2. A.L. Garcia: Numerical Methods for Physics, Prentice-Hall, 1994.
- 3. D. P. Landau, K. Binder: A Guide to Monte Carlo Simulations in Statistical Physics, Cambridge Univ. Press, 2000.
- 4. B. A. Berg: Introduction to Markov Chain Monte Carlo Simulations and Their Statistical Analysis, http://www.worldscibooks.com/etextbook/5904/5904 intro.pdf
- 5. W. Janke: Lectures on Ising model, http://www.physik.uni-leipzig.de/~janke/ Ising Lectures Lviv.html

Course language:

Notes:

Course assessment

Total number of assessed students: 74

A	В	С	D	Е	FX	N	P
39.19	18.92	8.11	17.57	9.46	2.7	0.0	4.05

Provides: doc. RNDr. Milan Žukovič, PhD.

 $\textbf{Date of last modification:}\ 31.01.2014$

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ Cou

Course name: Computational Physics II

POF1b/99

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Continuous evaluation is based on students' activity in the classroom and work on assignments. Examination and assignments submitted electronically with the attached computer code.

Learning outcomes:

To teach students to create simulation projects to help to solve physical problems.

Brief outline of the course:

Advanced methods of Monte Carlo (MC) simulations of lattice spin systems. Local and cluster perturbation algorithms. Errors and histogram analysis of MC data. Reweighting by simple histogram and multihistogram methods. Multicanonical methods. Simulated and parallel tempering. Universality and finite-size scaling. Determination of order of phase transitions and calculation of critical exponents. Basics of quantum MC simulations. MC simulations of stochastic proceses. Difusion equation. Stochastic proceses in financial analysis. Basics of molecular dynamics method.

Recommended literature:

- 1. D.P. Landau, K. Binder: A Guide to Monte Carlo Simulations in Statistical Physics, Cambridge University Press, 2000.
- 2. B.A. Berg: Introduction to Markov Chain Monte Carlo Simulations and Their Statistical Analysis, http://www.worldscibooks.com/etextbook/5904/5904 intro.pdf
- 3. W. Janke: Lectures on Ising model, http://www.physik.uni-leipzig.de/~janke/Ising Lectures Lviv.html

Course language:

Notes:

Course assessment

Total number of assessed students: 35

A	В	С	D	Е	FX
65.71	11.43	14.29	5.71	2.86	0.0

Provides: doc. RNDr. Milan Žukovič, PhD.

Date of last modification: 31.01.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Computer and telecommunication networks **PTS/13** Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 3 / 1 Per study period: 42 / 14 Course method: present **Number of credits: 5** Recommended semester/trimester of the course: 3. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Computer architecture

ARP1/05

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 4.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Oral examination, written tests.

Learning outcomes:

To provide the students with a knowledge of basic principles of computer architecture.

Brief outline of the course:

Milestones in computer organization, fundamental limitations. The representation of numbers and the implementation of floating point arithmetic. Combinatorial and sequential circuits, memory organization, RAMs and ROMs. Digital logic level architecture, data path timing, machine cycle. The microarchitecture level, microinstructions and microinstruction control. The instruction set architecture level, data types, addressing modes, instruction types. Instruction execution, pipelining, cache memory. I/O controllers, ports, interrupts, direct memory access. Device drivers, operating system kernel, device-independent software.

Recommended literature:

A. S. Tanenbaum: Structured Computer Organization, 4.ed., Prentice-Hall, 1999

W. Stallings: Computer Organization and Architecture, 4.ed., Prentice-Hall, 1996

J. Blieberger, G. H. Schildt, U. Schmid, S. Stoeckler: Informatik, Springer-Verlag, 1990

Course language:

Notes:

Course assessment

Total number of assessed students: 49

A	В	С	D	Е	FX
16.33	20.41	20.41	22.45	20.41	0.0

Provides: doc. RNDr. Jozef Jirásek, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ PSIN/13	Course name: Computer network Internet
Course method: pre	re / Practice rse-load (hours): study period: 42 / 14 esent
Number of credits: 5	
Recommended seme	ester/trimester of the course: 2., 4.
Course level: I.	
Prerequisities: ÚINF	F/PAZ1a/10 or ÚINF/ePAZ1a/11
Activity at excercises verbal exam, final tes	s, home work, test.
channels parameters, center network device of internet packets, to	OSI reference model for network communication, to analyze communication, to understand different access methods, to be familiar with the function of es (hub, switch, router), to understand IP protocol, IP addresses and the transfer understand reliable data transfer of the TCP protocol, to be able to use Sockets, ation protocols and use them in own applications.
to-peer applications. demultiplexing, prote congestion control. N translation, routing a CSMA/CD and CSI	model. Web and HTTP, e-mail and SMTP, domain names and DNS, Peer-Security in computer networks. Transport layer services, multiplexing and ocol UDP, reliable data transfer, connection oriented transport protocol TCP, Network Layer: Internet protocol IPv4 and IPv6, addressing, network address lgorithms and protocols. Link layer: error detection, multiple access methods MA/CA, Ethernet, 802.11 Wireless LAN, link layer addressing, VLANs, mologies. Communication channels parameters, digital and analog encoding.
2. A. S. Tanenbaum:3. W. Stallings: Loca4. E. Comer, R.E. Dr	Ature: a W. Ross: Computer Networking: A Top-Down Approach, 5. edícia, 2010 Computer Networks, Prentice Hall, 2002 l and Metropolitan Area Networks, Prentice Hall, 2000 coms: Computer Networks and Internets, Prentice Hall, 2003 P/IP Illustrated, Vol.1: The Protocols, Addison-Wesley, 1994
Course language:	

Notes:

Course assessment Total number of assessed students: 625						
A	В	С	D	Е	FX	
9.6	4.48	10.08	15.52	38.24	22.08	
Provides: RNDr. Peter Gurský, PhD.						

 $\textbf{Date of last modification:}\ 03.02.2014$

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Concurrent programming KOPR/12 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:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 48 C Α В D Е FX 18.75 16.67 33.33 12.5 4.17 14.58 Provides: RNDr. Róbert Novotný, PhD., RNDr. Peter Gurský, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Course name: Cry

KRP1/13

Course name: Cryptographic protocols

Course type, scope and the method: Course type: Lecture / Practice

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

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities: ÚINF/KRS/13

Conditions for course completion:

written test

Learning outcomes:

to acquire knowledge on design and verifying of cryptographic protocols

Brief outline of the course:

Authentication and key establishment using shared and public key cryptography, key agreement protocols, conference key agreement, zero-knowledge protocols.

Recommended literature:

- 1. Colin Boyd, Anish Mathuria: Protocols for Authentication and Key Establishment, Springer, 2003
- 2. Douglas R. Stinson: Cryptography: Theory and Practice, Third Edition, Chapman & Hall/CRC, 2006
- 3. Bruce Schneier: Applied Cryptography, Second Edition,

John Wiley & Sons Inc., 1996

4. Peter Ryan, Steve Schneider: Modeling and Analysis of Security Protocols, Addison-Wesley, 2001

Course language:

Notes:

Course assessment

Total number of assessed students: 1

A	В	С	D	Е	FX
0.0	0.0	100.0	0.0	0.0	0.0

Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Rastislav Krivoš-Belluš, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Cryptographic systems and their applications **KRS/13** Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 3 / 2 Per study period: 42 / 28 Course method: present **Number of credits:** 6 Recommended semester/trimester of the course: 3. Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 84 C A В D Е FX 13.1 10.71 9.52 11.9 34.52 20.24 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. Rastislav Krivoš-Belluš, PhD. Date of last modification: 03.02.2014

Page: 37

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Database systems

DBS1a/03

Course type, scope and the method: Course type: Lecture / Practice

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

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Acquired basic concepts and techniques of relational database theory and corresponding software.

Brief outline of the course:

Data models. Languages for defining and manipulating data (DDL, DML). Tables, attributes and integrity constraints. Queries: select, where, group by, aggregate and system functions. Nested queries and several tables: join, union, primary, foreign key. Relational algebra.

Recommended literature:

- S. Krajčí: Databázové systémy, UPJŠ, 2005
- J. ULLMAN: Principles of database and knowledge base systems, Comp. Sci. Press., 1988
- R. Ramakrishnan, J. Gehrke, Database Management Systems, McGraw-Hill, 2003
- Itzik Ben-Gun, Microsoft SQL Server 2012 T-SQL Fundamentals, O'Reilly, 2012
- HENDERSON, K.: The Guru's Guide to Transact SQL, Addison Wesley Professional, 2000

Course language:

Notes:

Course assessment

Total number of assessed students: 718

A	В	С	D	Е	FX
11.56	9.19	16.85	22.56	31.48	8.36

Provides: doc. RNDr. Csaba Török, CSc., Mgr. Maroš Andrejko, RNDr. Lukáš Miňo

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Database systems

DBS1b/03

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: 6

Recommended semester/trimester of the course: 4.

Course level: I.

Prerequisities: ÚINF/DBS1a/03 or ÚINF/eDBS1a/11

Conditions for course completion:

Learning outcomes:

Mastering the basic techniques of effective design, normalization and programmable extension of relational databases.

Brief outline of the course:

Database modelling. Functional dependency and normalization. Recursion and transitive closure. Cursors. Stored procedures. Indices and B-trees. Triggers. Transaction. XML, SDL, XPath, XOuerv.

Recommended literature:

- S. Krajčí: Databázové systémy, UPJŠ, 2005 2. J.
- Date C.J., Database Design and Relational Theory, O'Reilly, 2012
- Atkinson, P., Vierra, R., BEGINNING MICROSOFT SQL SERVER 2012 PROGRAMMING, John Wiley Wrox, 2012
- Itzik Ben-Gan, Microsoft SQL Server, 2012 T-SQL Fundamentals, O'Reilly, 2012
- L. Davidson, J.M. Moss, Pro SQL Server 2012 Relational database Design and Implementation, APRESS, 2012

Course language:

Notes:

Course assessment

Total number of assessed students: 608

A	В	С	D	Е	FX
10.36	7.73	10.86	22.2	36.84	12.01

Provides: doc. RNDr. Csaba Török, CSc.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ Course name: I

DSM3a/10

Course name: Discrete mathematics for informaticians

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 2.

Course level: L

Prerequisities:

Conditions for course completion:

Based on results of two semestral tests.

Based on semestral evaluation and the result of examination (test).

Learning outcomes:

To present the basics of combinatorics and their applications in computer science.

Brief outline of the course:

Mathematical induction and Dirichlet principle. The sum and the product rule. Permutations, k-permutations, combinations. Selections with repetitions. The inclusion/exclusion principle. Recurrent equations. Introduction to graph theory. Trees. Eulerian and Hamiltonian graphs. Planar graphs. Graph colourings.

Recommended literature:

- 1. S. Jendrol', P. Mihók: Diskrétna matematika I., UPJŠ Košice 1992
- 2. J. Nešetřil, J. Matoušek: Kapitoly z diskrétní matematiky
- 3. E. R. Scheinerman: Mathematics a discrete introduction, Brooks/Cole Publ. Comp. Pacific Grove 2000.
- 4. R.P. Grimaldi: Discrete and Computational Mathematics, Addison-Wesley Publ. Co.-Rending 1994.

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 521

A	В	С	D	Е	FX
4.03	2.3	3.84	13.24	52.02	24.57

Provides: doc. RNDr. Tomáš Madaras, PhD., RNDr. Mária Maceková

Date of last modification: 14.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Distributive object programming

DOP1/09

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 1/2 Per study period: 14/28

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 4.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Mastering the basics of distributed and parallel programming and design of distributed applications communicating via messages.

Brief outline of the course:

Multithreading, synchronization primitives. Basics of parallel programming, PLINQ, Task Parallel Library. Distributed object-oriented programming and its application. Service-oriented architecture, communication via messages. Endpoint: address, interconnections and communication channels, contracts for services, data and messages.

Recommended literature:

- A. S. Tanenbaum, M.V. Steen: Distributed Systems: Principles and Paradigms, Prentice Hall, 2002
- C.Campbell, R.Johnson, A.Miller, Parallel Programming with Microsoft® .NET, Microsoft, 2010
- J.Sharp, Windows Communication Foundation 4 Step by Step, O'Reilly, 2010
- J.Albahari, B.Albahari, C# 5.0 in a Nutshell: The Definitive Reference, O'Reilly, 2011

Course language:

Notes:

Course assessment

Total number of assessed students: 13

A	В	С	D	Е	FX
0.0	30.77	53.85	7.69	7.69	0.0

Provides: doc. RNDr. Csaba Török, CSc.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: CJP/

Course name: English Language of Natural Science

PFAJ4/07

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 4.

Course level: I.

Prerequisities:

Conditions for course completion:

test na slovnú zásobu, ústna prezentácia, záverečný písomný test, účasť na seminároch (max. 2 absencie)

stupnica hodnotenia: A 93-100, B 86-92, C 79-85, D 72-78, E 65-71, FX 64 a menej

Learning outcomes:

Rozvoj jazykových kompetencií študentov príslušného študijného odboru, upevňovanie a rozvíjanie všetkých jazykových zručností (hovorenie, písanie, čítanie, počúvanie) predovšetkým v odbornej/profesnej angličtine, na stredne pokročilej úrovni ovládania jazyka (B2). Dôraz sa kladie na aktívne správne používanie odbornej/profesnej angličtiny.

Brief outline of the course:

ANGLICKÝ JAZYK PRE GEOGRAFOV:

Veda a výskum. Odbor geografia.

Planéta Zem. Naša slnečná sústava. Litosféra, hydrosféra, atmosféra, biosféra.

Zem - dynamická planéta. Tektonické platne. Sopečná činnosť.

Zemetrasenia.

Svetové oceány. Morské prúdy. Tsunami.

Veľký koralový útes.

Atmosféra - zloženie atmosféry.

Kontinenty. Európa - krajiny, národnosti.

ANGLICKÝ JAZYK PRE EKOLÓGOV:

Veda a výskum. Odbor ekológia.

Životné prostredie. Znečistenie a dôsledky.

Sopečná činnosť, zemetrasenia.

Great Pacific Garbage Patch.

Globálne otepľovanie a dôsledky. Ľadovce.

Počasie a klíma. Búrky, hurikány, tsunami.

Život na Zemi. Ohrozené rastlinné a živočíšne druhy.

ANGLICKÝ JAZYK PRE BIOLÓGOV:

veda a výskum, odbor biológia

morfológia rastlín, koreň

stonka, list

rozmnožovanie rastlín, kvet

biológia človeka - telesné sústavy

slovná zásoba z oblasti botanickej a zoologickej nomenklatúry

ANGLICKÝ JAZYK PRE MATEMATIKOV:

Veda a výskum, odbor matematika

čísla a tvary v matematike

Elementárna algebra

Elementárna geometria

Výpočty v matematike

Pytagoras, Pytagorova veta

Grafy a diagramy

Štatistika

ANGLICKÝ JAZYK PRE FYZIKOV

Veda a výskum, odbor fyzika

Atómy a molekuly

Hmota a jej premeny

Elektrina, jej využitie

Zvuka, jeho prenos

Svetlo

Solárny systém

Matematické operácie

ANGLICKÝ JAZYK PRE CHEMIKOV:

Veda a výskum, odbor chémia:

História, alchímia

Nomenklatúra

Laboratórium a jeho vybavenie

Periodická tabuľka

Hmota a jej premeny

Organická chémia

Anorganická chémia

ANGLICKÝ JAZYK PRE INFORMATIKOV:

Veda a výskum, informatika

Život s počítačom

Typický PC

Zdravie a bezpečnosť, ergonomika

Programovanie

Emailovanie

Cybercrime

Trendy budúcnosti

Recommended literature:

študijné materiálny dodané vyučujúcim

Velebná, V. English for Chemists.

Redman, S.: English Vocabulary in Use, Pre-intermetdiate, Intermediate. Cambridge University Press. 2003.

Powel, M.: Dynamic Presentations. CUP, 2010

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

Wharton J.: Academic Encounters. The Natural World, CUP: 2009.

Murphy, R.: English Grammar in Use. Cambridge University Press. 1994.

Redman, s.: English Vocabulary in Use, Pre-intermetdiate, Intermediate. Cambridge University Press. 2003.

P. Fitzgerald: English for ICT studies, Garnet Publishing, 2011

Course language:

Notes:

Course assessment

Total number of assessed students: 1860

A	В	С	D	Е	FX
31.72	25.54	18.28	11.94	9.52	3.01

Provides: PhDr. Helena Petruňová, CSc., PaedDr. Gabriela Bednáriková, Mgr. Marianna Škultétyová, Mgr. Silvia Marcinová, PhD.

Date of last modification: 06.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Forensic analysis FAN/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 1/2 Per study period: 14/28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 6. Course level: I. Prerequisities: ÚINF/BPD1/13 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: PhDr. Štefan Franko, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Functional programming

FUN1/14

Course type, scope and the method: Course type: Lecture / Practice

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

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 5.

Course level: I., II.

Prerequisities: ÚINF/PAZ1c/03

Conditions for course completion:

Learning outcomes:

To learn bases of declarative programming (as complementary method to procedural programming) and basic methods of implementations of functional programming languages.

Brief outline of the course:

Principles of functional programming. Lambda calculus from the functional programming languages point of view. Properties of functional programming languages. Programming language Haskell: the structure of the language and basic computational rule, basic data types, lists, recursion and induction, trees

Recommended literature:

BIRD, R., WADLER, P.: Introduction to Functional Programming. Prentice Hall International, 1988.

LIPOVAČA, M.: Learn You Haskell for Great Good!. Free from http://learnyouahaskell.com/

Course language:

Notes:

Course assessment

Total number of assessed students: 4

A	В	С	D	Е	FX
75.0	25.0	0.0	0.0	0.0	0.0

Provides: doc. Ing. Štefánia Gallová, CSc.

Date of last modification: 25.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/

Course name: Geographic Information Systems

GIS/07

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 1/2 Per study period: 14/28

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 6.

Course level: I.

Prerequisities: ÚGE/ZKA/13 or ÚGE/KAT1/05

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Introduction to GIS and geoinformation problematic, basics of geoinformatics, principals of vector and raster representation, surfaces – digital terrain models, organisation of work in projects, system implementation, data sources and data input, data structuring, data analysing, digital image processing, process of layout creation, data quality and metadata, standardisation the digital data and legislation, GIS software products (ArcGIS and relevant ESRI products, Geomedia and Intergraph products, MapInfo, Topol), applications in a geography field in Slovakia, development trends in GIS and geoinformation field.

Recommended literature:

Maguire, D. J., Goodchild, M.F. Geographical Information Systems, Longman scientific & technical, USA 1991,

Burrough, P. A. and McDonnell, R. A. (1998). Principles of Geographical InformationSystems. Oxford: Oxford University Press.

Course language:

Notes:

Course assessment

Total number of assessed students: 243

A	В	С	D	Е	FX
32.51	21.81	28.4	9.88	7.41	0.0

Provides: Mgr. Michal Gallay, PhD., prof. Mgr. Jaroslav Hofierka, PhD.

Date of last modification: 11.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/

Course name: Geographic Information Systems

GIS/13

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 6.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Introduction to GIS and geoinformation problematic, basics of geoinformatics, principals of vector and raster representation, surfaces – digital terrain models, organisation of work in projects, system implementation, data sources and data input, data structuring, data analysing, digital image processing, process of layout creation, data quality and metadata, standardisation the digital data and legislation, GIS software products (ArcGIS and relevant ESRI products, Geomedia and Intergraph products, MapInfo, Topol), applications in a geography field in Slovakia, development trends in GIS and geoinformation field.

Recommended literature:

Maguire, D. J., Goodchild, M.F. Geographical Information Systems, Longman scientific & technical, USA 1991,

Burrough, P. A. and McDonnell, R. A. (1998). Principles of Geographical InformationSystems. Oxford: Oxford University Press.

Course language:

Notes:

Course assessment

Total number of assessed students: 2

A	В	C	D	Е	FX
50.0	50.0	0.0	0.0	0.0	0.0

Provides: Mgr. Michal Gallay, PhD., prof. Mgr. Jaroslav Hofierka, PhD.

Date of last modification: 11.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science **Course ID:** KGER/ **Course name:** Grammar in the German Language Communication NJKG/07 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 46 \mathbf{C} Α В D Е FX 54.35 13.04 8.7 8.7 4.35 10.87 Provides: Dr. rer. pol. Michaela Kováčová Date of last modification: 05.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: GRID computing GRP/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 1/2 Per study period: 14/28 Course method: present **Number of credits: 3** Recommended semester/trimester of the course: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 1 \mathbf{C} A В D Е FX 100.0 0.0 0.0 0.0 0.0 0.0 Provides: Ing. Jozef Černák, PhD. Date of last modification: 11.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB10 - Medzinárodný certifikát ECo-C IB10/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB11 - Medzinárodný certifikát ECDL IB11/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present Number of credits: 14 Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB12 - Používanie, administrácia a vývoj v systéme SAP IB12/14 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present **Number of credits: 54** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB1 - Etika v biomedicínskych vedách pre zdravotnícku prax IB1/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ | Course name: IB2 - Právne minimum – súkromnoprávne aspekty IB2/14 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ | Course name: IB3 - Právne minimum – verejnoprávne aspekty IB3/14 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ | Course name: IB4 - Projektový manažment IB4/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present Number of credits: 20 Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB5 - Manažérska ekonomika IB5/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB6 - Riešenie konfliktných a krízových situácií v školskej IB6/14 praxi Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB7 - Štatistika pre prax IB7/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ | Course name: IB8 - Environmentálne aspekty záťaže životného prostredia IB8/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present **Number of credits: 16** Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: R UPJŠ/ Course name: IB9 - Medzinárodný certifikát TOEFL IB9/14 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present Number of credits: 17 Recommended semester/trimester of the course: Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 abs neabs n 0.0 0.0 0.0 **Provides:** Date of last modification: 11.08.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Image analysis ANO/07 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of credits: 4 Recommended semester/trimester of the course:** 5. Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 5 \mathbf{C} A В D Е FX 20.0 0.0 40.0 0.0 40.0 0.0 Provides: doc. Ing. Zoltán Tomori, CSc., Ing. Radoslav Gargalík Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Informatics for medicine

MIN1/06

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: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Oral and written exam

Learning outcomes:

To present an application of computer science in medicine domain with emphasis on the specific conditions for so-called safety-relevant domain.

Brief outline of the course:

Software development go medicine domain (radiotherapy and ultrasound). Syngo platform, MS .NET, C#, C++. Development based on so-called "V" development model. An overview of used software tools:

RationalRose, RequisitePro, UITA, Caliber, ClearCase. Quality and process management and SW company management according to CMMI methodology.

Recommended literature:

http://www.syngo.com

http://www.siemens.com

Course language:

Notes:

Course assessment

Total number of assessed students: 68

A	В	С	D	Е	FX
75.0	25.0	0.0	0.0	0.0	0.0

Provides: doc. Ing. Norbert Kopčo, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Informatics for medicine MIN2/08 Course type, scope and the method: Course type: Lecture **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 3 Recommended semester/trimester of the course: 6. Course level: I., II. **Prerequisities:** ÚINF/MIN1/06 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 20 \mathbf{C} A В D Е FX 80.0 10.0 0.0 10.0 0.0 0.0 Provides: doc. Ing. Norbert Kopčo, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Interdisciplinary applications of informatics MAIN/14 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: I. Prerequisities: ÚFV/NOT1b/03 and ÚINF/ZDD1/12 and ÚINF/ANO/07 and ÚFV/POF1b/99 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 **Provides:** Date of last modification: 19.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Introduction to Computational Physics

UPF1/12

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:

Elaboration of microreferat on given topics.

Exam and discussion of the implementation of the given project.

Learning outcomes:

The aim of the lecture is to provide students with the physical background of the computational processes in conventional computers, as well as to provide less conventional possibilities to implement computational processes using deeper knowledge of physical processes.

Brief outline of the course:

Physical processes utilised in contemporary computers. Computational processes / thermodynamics point of view. Physical limits of current computer technologies (Moore, Amdahl laws

. Computer modeling and physical reality. Computational complexity and paralelism. Distributed computing. Alternative methods of computation (analogue, optical processors, DNA computing, quantum computing).

Recommended literature:

Actual literature provided by lecturer.

Course language:

Notes:

Course assessment

Total number of assessed students: 12

A	В	С	D	Е	FX
83.33	16.67	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Jozef Uličný, CSc.

Date of last modification: 10.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Introduction to computer graphics

UGR1/04

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 3.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To provide the students with knowledge of graphics algorithms and basic principles of computer graphics.

Brief outline of the course:

Graphics hardware, input and output devices. Color models, palettes. Raster graphics algorithms for drawing 2D primitives. Filling and clipping. Curve modeling, interpolations and approximations, spline forms, Bézier curves, B-splines, surfaces. Homogenous coordinates, affine transformations, perspective and parallel projections. Visible-surface determination, illumination and shading. Rendering techniques, photorealism, textures, ray tracing, radiosity. Object representations, computer animation, virtual reality.

Recommended literature:

FOLEY, J. D., van DAM, A., FEINER, S., HUGHES, J.: Computer Graphics: Principles and

Practice, Addison-Wesley, 1991

MORTENSON, M.E.: Geometric modeling, 2.ed., Willey, 1997

Course language:

Notes:

Course assessment

Total number of assessed students: 216

A	В	С	D	Е	FX
13.43	7.87	12.5	24.07	32.41	9.72

Provides: RNDr. Rastislav Krivoš-Belluš, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Introduction to neural networks

UNS1/04

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 3.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To understand and to know applications of basic paradigms of neural networks. To learn working with software for neural network models.

Brief outline of the course:

Basic models of computational units - neurons (linear threshold gates, polynomial threshold gates, perceptrons), their computational capability, algorithms of adaptations. Feed-forward neural networks, back propagation algorithm. Hopfield neural networks. ART neural networks. Using neural networks to solving of problems. Genetic and evolution algorithms.

Recommended literature:

J. Hertz, A.Krogh, R.G. Palmer: Introduction to the theory of neural computation, Addison Wesley, 1991

HASSOUN, M. H.: Fundamentals of artificial neural networks, The MIT Press, 1995

Course language:

Notes:

Course assessment

Total number of assessed students: 336

A	В	С	D	Е	FX
8.04	15.18	23.81	21.43	27.08	4.46

Provides: doc. RNDr. Gabriela Andrejková, CSc.

Date of last modification: 03.02.2014

Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Introduction to neurosciences

UNV1/12

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 5.

Course level: I.

Prerequisities:

Conditions for course completion:

Examination

Learning outcomes:

Introduction to anatomy and physiology of human brain, to cognitive processes corresponding to different mental functions, and to computational tools used in neuroscience.

Brief outline of the course:

Description of neural centers of basic cortical functions (visual, auditory, sensory and motor cortex, learning and memory). Basic physiological, psychological, psychophysical and computational methods used in neuroscience with focus on the application of computational tools for electrophysiological brain activity recording and imaging (e.g., magnetic resonance). Computational applications of neuroscience research.

Recommended literature:

- 1. Gazzaniga M. (ed.): The New Cognitive Neurosciences. 2nd ed. MIT Press. 1999
- 2. Dayan P and LF Abbott: Theoretical Neuroscience Computational and Mathematical Modeling of Neural Systems. MIT Press, 2001
- 3. Stillings et al.: Cognitive Science: An Introduction, 2nd ed., MIT Press, 1995

Course language:

Notes:

Course assessment

Total number of assessed students: 4

Α	В	С	D	Е	FX
0.0	25.0	25.0	0.0	50.0	0.0

Provides: doc. Ing. Norbert Kopčo, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Course name: Introduction to study of informatics

UIN1/13

Course type, sages and the method:

Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 159

A	В	С	D	Е	FX
30.19	21.38	18.24	15.72	5.03	9.43

Provides: doc. RNDr. Stanislav Krajči, PhD., RNDr. Ondrej Krídlo, PhD., Mgr. Alexander Szabari, PhD.

Date of last modification: 03.02.2014

Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: Dek. PF UPJŠ/USPV/13	Course name: Introduction	n to Study of Sciences			
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: Per study period: 12s / 3d Course method: present					
Number of credits: 2					
	ster/trimester of the cours	e: 1.			
	Course level: I.				
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: 539				
	abs	n			
	95.18 4.82				
Provides: doc. RNDr. Mária Kožurková, CSc., prof. RNDr. Katarína Cechlárová, DrSc., prof. RNDr. Beňadik Šmajda, CSc., prof. Mgr. Jaroslav Hofierka, PhD., doc. RNDr. Ivan Žežula, CSc., doc. RNDr. Vladimír Zeleňák, PhD., Doc. RNDr. Jozef Hanč, PhD., RNDr. Ondrej Krídlo, PhD., Mgr. Vladislav Kolarčik, PhD., RNDr. Janetta Nestorová-Dická, PhD.					
Date of last modification: 17.02.2014					
Approved: doc. RNDr. Gabriel Semanišin, PhD					

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Legal aspects of electronic commerce AEO1/13 Course type, scope and the method: Course type: Lecture **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present **Number of credits: 3** Recommended semester/trimester of the course: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: JUDr. Regina Hučková, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Legal aspects of informatics PAI1/13 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: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 16 C A В D Е FX 6.25 18.75 12.5 18.75 18.75 25.0 Provides: RNDr. JUDr. Pavol Sokol, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Linux fundamentals for SAP ZLSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 3., 5. Course level: I., II., N Prerequisities: ÚINF/ZTSP/14 or ÚINF/SAP1a/06 **Conditions for course completion: Learning outcomes: Brief outline of the course:** Introduction to Linux: commands, permissions & processes, work with the files, advanced Linux: advanced commands; basics of networking & scripting, SAP architecture on OS level. **Recommended literature: Course language: Notes: Course assessment** Total number of assessed students: 12 abs n 100.0 0.0 Provides: RNDr. Štefan Pero

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Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Logic Circuits

FLO/09

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours): Per week: 1 / 1 Per study period: 14 / 14

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:

written exam, presence at the laboratory practice

Learning outcomes:

Student will obtain knowledge about principles of functioning, analysis and synthesis of logical electronic circuits, as a basic unit of computing technology. Student will use his theoretical knowledge to design and to construct of electronic circuits and he/she will learn how to interpret measured results.

Brief outline of the course:

1. Combinatorial logical circuits (definitions, laws of logical algebra, electronic models of operations of Boolean algebra, NAND, digital multiplexor and demultiplexor, detector of errors for BDC code, arithmetic addition of two one bit binary operands). 2. Digital memory circuits (bistable circuit as basic memory unit, synchronous and asynchronous switching circuits). 3. Sequentional logical circuits (sequentional behavior, structure and stability of sequentional logical circuits, basic sequentional functions and their realization, arithmetic unit of digital computer)

Recommended literature:

Petrovič P.: Elektronika I – Vybrané obvody číslicovej techniky. Skriptum PF, Edičné stredisko UPJŠ, Košice 2003. 2. vydanie: Vydavateľstvo UPJŠ, Košice, 2006.

Course language:

Notes:

Course assessment

Total number of assessed students: 167

A	В	C	D	Е	FX
29.94	32.34	20.96	5.39	1.8	9.58

Provides: Mgr. Vladimír Komanický, PhD.

Date of last modification: 18.02.2014

Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Logic programming

LOP1/04

Course type, scope and the method: Course type: Lecture / Practice

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

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 4.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To learn bases of declarative programming (as complementary method to procedural programming) and basic methods of implementations of logic programming languages.

Brief outline of the course:

Facts and rules in Prolog. Unification of terms (Robinson's unification algorithm). Recursion and backtrack in Prolog. Computational step and computational tree. Classification of terms. Lists. Functors and operators in composed terms. Predicates for input and output. Dynamic database. Cycles (repeat-fail, for). Predicates related to backtrack. Cut. Predicates evaluating of arithmetic expressions.

Recommended literature:

BRATKO, I.: Prolog – programming for artificial intelligence, third edition. Addison-Wesley, 2001

Course language:

Notes:

Course assessment

Total number of assessed students: 211

A	В	С	D	Е	FX
19.43	10.9	15.64	24.64	27.01	2.37

Provides: RNDr. Ondrej Krídlo, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Management of information systems **MIS/13** Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 1/2 Per study period: 14/28 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 4., 6. Course level: I. Prerequisities: ÚINF/DBS1a/03 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: doc. RNDr. Gabriel Semanišin, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ **Course name:** Mathematical foundations of informatics I

MZIa/10

Course type, scope and the method:

Course type: Lecture / Practice Recommended course-load (hours):

Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 1.

Course level: I.

Prerequisities:

Conditions for course completion:

Two tests and completion of individual homework.

Based on semestral evaluation and examination test.

Learning outcomes:

To obtain basic knowledge in arithmetic, linear algebra, abstract algebra and calculus, to learn proof methods and to use the obtained knowledge in problem solving.

Brief outline of the course:

Integers, divisibility, congruences, congruence classes. Fields and groups. Systems of linear equations, matrices, matrix operations, determinants. Functions and their properties, continuity, limit, derivative. Analysis of functions.

Recommended literature:

Huťka, Benko, Ďurikovič: Matematika, Alfa, Bratislava 1991

- D. Studenovská, T. Madaras, S. Mockovčiak: Zbierka úloh z matematiky pre nematematické odbory, UPJŠ 2006
- D. Studenovská, T. Madaras: Matematika pre nematematické odbory, UPJŠ 2006
- J. Ivan: Matematika 1, Alfa, Bratislava 1989
- T. Katriňák a kol.: Algebra a teoretická aritmetika, Alfa, Bratislava 1986

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 132

A	В	С	D	Е	FX
0.0	5.3	7.58	10.61	44.7	31.82

Provides: doc. RNDr. Tomáš Madaras, PhD., RNDr. Pavel Molnár

Date of last modification: 14.02.2014

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚMV/ | Course name: Mathematical foundations of informatics II

MZIb/10

Course type, scope and the method:

Course type: Lecture / Practice Recommended course-load (hours): Per week: 2 / 2 Per study period: 28 / 28

Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 2.

Course level: L

Prerequisities: ÚMV/MZIa/10

Conditions for course completion:

Based on results of two tests and individual homeworks.

Based on semestral evaluation and examination test.

Learning outcomes:

To extend the obtained knowledge in mathematics by topics in integral calculus, differential equations and infinite series.

Brief outline of the course:

Indefinite and definite integral and their applications. Differential equations. Series, convergence criteria. Series of functions, Taylor expansion. Periodic functions, trigonometric series, Fourier expansion.

Recommended literature:

Huťka, Benko, Ďurikovič: Matematika, Alfa, Bratislava 1991

- D. Studenovská, T. Madaras, S. Mockovčiak: Zbierka úloh z matematiky pre nematematické odbory, UPJŠ 2006
- D. Studenovská, T. Madaras: Matematika pre nematematické odbory, UPJŠ 2006
- J. Ivan: Matematika 2, Alfa, Bratislava 1989
- T. Katriňák a kol.: Algebra a teoretická aritmetika, Alfa, Bratislava 1986

Course language:

Slovak

Notes:

Course assessment

Total number of assessed students: 43

A	В	С	D	Е	FX
0.0	9.3	9.3	13.95	53.49	13.95

Provides: doc. RNDr. Tomáš Madaras, PhD., RNDr. Pavel Molnár

Date of last modification: 14.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Modern information technologies in applications **VKT/13** Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 0/2 Per study period: 0/28Course method: present Number of credits: 2 Recommended semester/trimester of the course: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 1 C A В D Е FX 100.0 0.0 0.0 0.0 0.0 0.0 Provides: RNDr. Peter Marcinčák Date of last modification: 13.03.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Modern programming languages

MPJ1/08

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 3.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Mastering the basics of standard and experimental programming models and techniques.

Brief outline of the course:

Object oriented programming, Generic programming – parametric polymorphism. Vector programming – operator overloading, indexer. Event programming (event handling) – delegates. Attribute programming. Parallel and multithread programming – processes, threadpool. Functional and declarative programming – lambda expressions, LINQ. Graphics primitives.

Recommended literature:

- Andrew Troelsen, Pro C# 5.0 and the .NET 4.5 Platform, 2012, APRESS
- Joseph Albahari, Ben Albahari, C# 5.0 in a Nutshell: The Definitive Reference, 2012, O'REILLY
- Daniel Solis, Illustrated C# 2012, 2012, APRESS

Course language:

Notes:

Course assessment

Total number of assessed students: 88

A	В	С	D	Е	FX
17.05	18.18	27.27	22.73	14.77	0.0

Provides: doc. RNDr. Csaba Török, CSc.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	cience					
Course ID: ÚTVŠ/ NJ//13	Course name: Naval Yacht	ing				
Course type, scope a Course type: Practic Recommended cou Per week: 36 Per st Course method: pre	ce rse-load (hours): cudy period: 504 esent					
Number of credits: 2						
	ester/trimester of the course	<u>: </u>				
Course level: I., II.	Course level: I., II.					
Prerequisities:	Prerequisities:					
Conditions for cours	se completion:					
Learning outcomes:						
Brief outline of the c	course:					
Recommended litera	ature:					
Course language:						
Notes:	,					
Course assessment Total number of asse	ssed students: 2					
abs n						
100.0 0.0						
Provides: doc. Mgr. l	Rastislav Feč, PhD.					
Date of last modifica	ntion: 15.01.2014					
Approved: doc. RNI	Dr. Gabriel Semanišin, PhD.					

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Network and communication security SKB1/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of credits: 5 Recommended semester/trimester of the course:** 3. Course level: I. **Prerequisities:** ÚINF/PSIN/13 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ NOT1a/03	Course name: Nontraditional Optimization Techniques I
Course type, scope a Course type: Lectur Recommended cour Per week: 2/2 Per Course method: pre	re / Practice rse-load (hours): study period: 28 / 28
Number of credits: 5	
Recommended seme	ster/trimester of the course: 5.
Course level: I., II.	
Prerequisities:	
01 0	te completion: in solving applied projects. quality of the project (50%)
	nts with biologically and physically inspired optimization, simulation and a. To expand students' creativity and programming skills by applying heuristic applied problems.
functions. Classifica Evolutionary algorith Mechanics Approxin annealing. Swarm of complex systems. Fr	timization theory. Basic optimization problems. Basic types of objective tion of optimization techniques. Gradient-based optimization techniques. Ims. Genetic algorithms. Genetic algorithms as Markov processes. Statistical mations of Genetic Algorithms. Monte Carlo simulation and simulated optimization. Cellular Automata and their applications in simulations of actals. Agent-based models. Evolutionary games. Evolution of cooperation. ural Networks. Application of singular value decomposition to solve least
Reeves, C. R., Rowe, Mitchell, M., Comple Solé, R. V., Phase Tra Ilachinski, A., Cellula	eger, H., Optimization Algorithms in Physics, Wiley, 2002 J. E., Genetic Algorithms: Principles and perspectives, Kluwer, 2003 exity. A Guided Tour, Oxford University Press, 2009 ensitions, Princeton University Press, 2011 ear Automata. A Discrete universe, World Scientific, 2002 etworks. A Comprehensive Foundation, Prentice-Hall, 1999

Course language:

Notes:

Course assessment Total number of assessed students: 55					
A	В	С	D	Е	FX
69.09 16.36 7.27 1.82 5.45 0.0					
Provides: RNDr. Branislav Brutovský, CSc.					

 $\textbf{Date of last modification:}\ 10.02.2014$

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Nontraditional Optimization Techniques II

NOT1b/03

Course type, scope and the method:

Course type: Lecture / Practice

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

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 6.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Presentation of the project in written form. Oral exam and discussion of the presented project.

Learning outcomes:

By using examples from the biology to learn applications of optimization techniques on study and interpretation of complex systems. Introduction to new paradigms in the area of systems biology.

Brief outline of the course:

Complex systems, emergent behavior. Evolutionary theory and memetics. Application of optimization techniques on complex systems. Application of methods /genetic algorithms, simulated annealing, taboo search/ on selected problems of biomolecular simulations. Molecular dynamics, protein folding. Population dynamics, metabolic networks and complexity in bioinformatics.

Recommended literature:

The actual scientific papers.

Course language:

Notes:

Course assessment

Total number of assessed students: 29

A	В	С	D	Е	FX
86.21	6.9	3.45	3.45	0.0	0.0

Provides: doc. RNDr. Jozef Uličný, CSc.

Date of last modification: 10.02.2014

University: P. J. Šafa	árik University in Košice			
Faculty: Faculty of	Science			
Course ID: ÚINF/ OP/14	Course name: Odborná	prax		
Course type, scope Course type: Pract Recommended cou Per week: Per stu- Course method: pr	ice ırse-load (hours): dy period: 2t			
Number of credits:	2			
Recommended sem	ester/trimester of the co	arse:		
Course level: I.				
Prerequisities:				
Conditions for cour	ese completion:			
Learning outcomes	•			
Brief outline of the	course:			
Recommended liter	ature:			
Course language:				
Notes:	_			
Course assessment Total number of asse	essed students: 3			
abs n				
100.0 0.0				
Provides: Mgr. Alex	ander Szabari, PhD.	•		
Date of last modific	ation: 06.03.2014			
Approved: doc. RN	Dr. Gabriel Semanišin, Ph	D.		

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Operating systems

OSY1/11

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 3.

Course level: I., II.

Prerequisities: ÚINF/PAZ1a/10

Conditions for course completion:

Written tests.

Learning outcomes:

The purpose of the operating systems subject is to provide the students how to organize and control hardware and software so that the device is live and behaves in a flexible but predictable way.

Brief outline of the course:

Operating systems structure and components, process, files, threads, CPU processor scheduling, schedule algorithms, interprocess communi-cations, deadlocks, synchronization, multitasking, virtualisation.

Recommended literature:

STALLINGS, W.: Operating Systems. Internal and Design Principles. Pearson, Prentice Hall, 2005.

SILBERSCHATZ, A. et al.: Operating Systems Concepts. Addison-Wesley, Reading MA, 2000.

Course language:

Notes:

Course assessment

Total number of assessed students: 102

A	В	С	D	Е	FX
32.35	6.86	17.65	12.75	19.61	10.78

Provides: doc. Ing. Štefánia Gallová, CSc., RNDr. Peter Gurský, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Oracle database administration ORSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** Course level: I., II., N Prerequisities: ÚINF/ASSP/14 or ÚINF/SAP1b/06 **Conditions for course completion: Learning outcomes: Brief outline of the course:** Database Overview: database architecture, connecting to the database, using database administration tools, administrating Oracle instances. Space management: administrating "Table Spaces", Performing reorganization of tables, housekeeping and troubleshooting. Backup, Restore and Recovery. **Recommended literature:** Course language: **Notes: Course assessment** Total number of assessed students: 11 abs n 90.91 9.09 Provides: RNDr. Štefan Pero

Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Overview of basic modules for consultant ZMSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** Course level: I., II., N Prerequisities: ÚINF/ZKSP/14 **Conditions for course completion: Learning outcomes: Brief outline of the course:** User training modules: HR (Human Resources), FI (Financial) + CO (Controlling), MM (Material Management). **Recommended literature: Course language: Notes: Course assessment** Total number of assessed students: 0 abs n 0.0 0.0 Provides: RNDr. Štefan Pero Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Parallel and distributed systems

PDS1/03

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 4.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

to introduce the fundamentals of parallel and distributed programming

Brief outline of the course:

current parallel and distributed architectures, basic issues in parallel and distributed applications development, data structures and programming methodologies

Recommended literature:

Kenneth A. Berman and Jerome L. Paul: Algorithms: Sequential, Parallel, and Distributed, Thomson, 2005, ISBN 0-534-42057-5

Gregory R. Andrews: Foundations of Multithreaded, Parallel, and Distributed Programming, Addison-Wesley, 2000, ISBN 0-201-35752-6

Joseph JáJá: An Introduction to Parallel Algorithms, Addison-Wesley, 1992, ISBN 0-201-54856-9

Gerard Tel: Introduction to Distributed Algorithms, Cambridge University Press, 1994, ISBN 0-521-47069-2

Course language:

Notes:

Course assessment

Total number of assessed students: 97

A	В	С	D	Е	FX
23.71	20.62	15.46	20.62	11.34	8.25

Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. František Galčík, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ Course name: Physical Principles of Medicine Technique LEK1/99 Course type, scope and the method: Course type: Lecture **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present **Number of credits: 3 Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 27 C A В D Е FX 85.19 11.11 3.7 0.0 0.0 0.0 Provides: doc. RNDr. Karol Flachbart, DrSc. Date of last modification: 18.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚFV/ FPI/15	Course name: Physics for Informaticists I
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: I.	
Prerequisities:	
1. in the 6th week 2.in the 12th week Final assessment is b - oral examination	ng the calculus lessons
Learning outcomes: Basic knowledge aboand fluids and gases.	out the mechanics of point mass, system of particles, rigid body, elastic bodies
relativity in the classi	he vector algebra. Standards and units. Kinematics. Dynamics. The principle of ical mechanics. Gravitation. Mechanics of many-particle systems. The motion rmation, elasticity. Mechanics of fluids and gases.
Veis Š., Maďar J., Ma Bratislava, 1987. Fuka J., Široká M.: C Hlavička A., a kol.: F Hajko V., a kol.: Fyzil Halliday, D., Resnick Halliday, D., Resnick 2000	hture: lbó J.: Základy fyziky, VEDA, Bratislava 1983. artišovits V.: Všeobecná fyzika I., Mechanika a molekulová fyzika, ALFA Obecná fyzika I / skriptum /, PF Univ. Palackého, Olomouc 1983. Fyzika pre pedagogické fakulty, SPN, Praha 1971. ka v príkladoch, ALFA Bratislava 1983. k, R., Walker, J.: Fyzika, časť 1 Mechanika, VUT Brno, 2000 k, R., Walker, J.: Fyzika, časť 2 Mechanika - Termodynamika, VUT Brno, a, ALFA Bratislava 1982.
Course language: Slovak	

Notes:

Course assessment Total number of assessed students: 9						
A	В	С	D	Е	FX	
33.33	11.11	22.22	11.11	22.22	0.0	

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 05.03.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/

Course name: Physics for Informatics

IFY/09

Course type, scope and the method:

Course type: Lecture

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

Course method: present

Number of credits: 3

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

Course level: I.

Prerequisities:

Conditions for course completion:

Two written tests.

Combination of the results of two tests.

Learning outcomes:

Introduction to classical and modern physics.

Brief outline of the course:

The lecture provides an introduction to classical and modern physics, the basics of magnetism and magnetic recording. Popular form explain the theory of relativity, quantum physics and Maxwell's equations.

Recommended literature:

J. B. Seaborn, Understanding the Universe: An Introduction to Physics and Astrophysics, Springer 1997

Course language:

Notes:

Course assessment

Total number of assessed students: 114

A	В	С	D	Е	FX
31.58	26.32	27.19	13.16	1.75	0.0

Provides: doc. RNDr. Ján Füzer, PhD.

Date of last modification: 18.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚFV/ **Course name:** Physics Practical for Informatics IFS1a/07 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 4., 6. Course level: I. **Prerequisities:** ÚFV/IFY1b/07 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 20 \mathbf{C} A В D Е FX 70.0 25.0 5.0 0.0 0.0 0.0 Provides: doc. RNDr. Rastislav Varga, DrSc., RNDr. Erik Čižmár, PhD.

Date of last modification: 18.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Principles of computers PRP2/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 2. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 66 \mathbf{C} A В D Е FX 34.85 10.61 19.7 13.64 19.7 1.52 Provides: doc. Ing. Štefánia Gallová, CSc. Date of last modification: 19.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Princípy informačnej bezpečnosti IBdi/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 1. Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 13 \mathbf{C} A В D Е FX 53.85 15.38 0.0 15.38 7.69 7.69 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. František Galčík, PhD. Date of last modification: 03.02.2014

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Proces modelling PMO1/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of credits: 5** Recommended semester/trimester of the course: 4. Course level: I. Prerequisities: ÚINF/SWI1a/04 and ÚMV/DSM3a/10 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 4 \mathbf{C} A В D Е FX 25.0 25.0 0.0 50.0 0.0 0.0 Provides: doc. RNDr. Gabriel Semanišin, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

	COURSE INFORMATION LETTER
University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ PAZ1a/10	Course name: Programming, algorithms, and complexity
Course type, scope a Course type: Lectur Recommended cour Per week: 3 / 4 Per Course method: pre	re / Practice rse-load (hours): study period: 42 / 56
Number of credits: 8	
Recommended seme	ster/trimester of the course: 1.
Course level: I., II.	
Prerequisities:	
Conditions for cours	e completion:
students basics of alg oriented programmin programming habits	equire having any programming experiences. The aim of the course is to teach gorithms and programming. The methodology used in the course is "object g first". The primary goal of the course is to teach students to make good and a good object-oriented design. The programming language used in the rofessional IDE Eclipse.
objects, simple turtle logical expressions, ra Strings, arrays, instar Second part of the co and directories, conv constructors hierarch classes and methods Comparable and Con LinkedList, interface interface Map and inheritance, Runtime	e (with turtle graphics): New Eclipse project, interactive communication with graphics, making user methods, local variables, variable types, arithmetic and andom numbers, conditions, loops for and while, debugging, references, chars, are variables, mouse events, simple array algorithms. The provided three graphics of the property
· · · · · · · · · · · · · · · · · · ·	g in Java, Pearson, 2006 , B.: Head First Java, O'Reilly Media; 2nd edition, 2005

Course language:

Notes:

Course assessment Total number of assessed students: 421						
A	В	С	D	Е	FX	
15.68 7.84 12.35 15.2 12.59 36.34						

Provides: RNDr. Peter Gurský, PhD., RNDr. František Galčík, PhD., PaedDr. Ján Guniš, PhD., RNDr. Zuzana Bednárová, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Programming, algorithms, and complexity

PAZ1b/03

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 4 Per study period: 28 / 56

Course method: present

Number of credits: 7

Recommended semester/trimester of the course: 2.

Course level: I., II.

Prerequisities: ÚINF/PAZ1a/10 or ÚFV/POF1b/99

Conditions for course completion:

Oral and practical examination.

Learning outcomes:

To understand basic principles of algorithm design (including basic data structures). To apply these principles and knowledge to solve simple algorithmic tasks efficiently.

Brief outline of the course:

Recursion, introduction to time complexity and O-notation, binary search and sorting algorithms (SelectionSort, QuickSort, MergeSort, HeapSort), basic data structures (linked list, stack, queue, trees, binary search trees) – implementation and applications, backtracking, divide and conquer, dynamic programming, greedy algorithms, basic graph algorithms (DFS, BFS, Dijkstra's algorithms, Bellman-Ford algorithm, Floyd-Warshall algorithm, topological sorting), introduction to stringology.

Recommended literature:

CORMEN, T.H., LEISERSON, Ch.E., RIVEST, R.L, STEIN, C. Introduction to Algorithms. The MIT Press, 2009.

KLEINBERG, J., TARDOS, E.: Algorithm Design, Cornell University, Addison Wesley, New York, 2006.

Course language:

Notes:

Course assessment

Total number of assessed students: 991

A	В	С	D	Е	FX
11.2	6.26	9.89	20.18	24.22	28.25

Provides: RNDr. František Galčík, PhD., PaedDr. Ján Guniš, PhD., RNDr. Zuzana Bednárová, PhD., Mgr. Matej Nikorovič, doc. RNDr. Gabriela Andrejková, CSc.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Programming, algorithms, and complexity

PAZ1c/03

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 4 Per study period: 56

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 3.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To grasp object-oriented principles of larger application and algorithm design.

Brief outline of the course:

Contract as a basic principle of class design. Designing class associations. Managing associations between object: Factories, Singletons, Dependency Injection. Class hierarchy design. Basic principles of GUI design – models, views, controllers and implementation in Swing. Creating three-layered applications.

Recommended literature:

SIERRA, K., BATES, B.: Head First Java (2nd Edition), 2005

ECKEL, B.: Thinking in Java (4th Edition), 2006

Course language:

Notes:

Course assessment

Total number of assessed students: 231

A	В	С	D	Е	FX
37.66	20.35	17.32	10.39	9.52	4.76

Provides: RNDr. Róbert Novotný, PhD.

Date of last modification: 03 02 2014

Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Cou

Course name: Programming language C

JAC1/11

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 3.

Course level: I., II.

Prerequisities: ÚINF/PAZ1a/10

Conditions for course completion:

Practics attendance and activity. Home assignment

Final project.

Learning outcomes:

Become skilled in language C and get knowledge of the theoretical concepts that are used in the development in low-level software.

Brief outline of the course:

Procedural paradigm in C, low-level concepts and their implementation, nonautomatic memory handling and allocation. Data structures in C.

Recommended literature:

- 1. A. D. Marshall: Programming in C: UNIX System Calls and Subroutines using C. [online] http://www.cs.cf.ac.uk/Dave/C/CE.html
- 2. J. Maasen: C for Java Programmers. [online] http://www.cs.vu.nl/~jason/college/dictaat.pdf
- 3. Bruce Eckel: Thinking in C. [online] http://mindview.net/CDs/ThinkingInC

Course language:

Notes:

Course assessment

Total number of assessed students: 92

Α	В	С	D	Е	FX
53.26	22.83	6.52	2.17	10.87	4.35

Provides: RNDr. Peter Gurský, PhD., RNDr. Zuzana Bednárová, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Project I. PRO1a/13 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 4 Per study period: 56 Course method: present Number of credits: 4 Recommended semester/trimester of the course: 4. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 114 C Α В D Е FX 69.3 15.79 14.04 0.0 0.0 0.88 Provides: Mgr. Alexander Szabari, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Project II. PRO1b/13 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 4 Per study period: 56 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 72 C A В D Е FX 56.94 13.89 20.83 2.78 4.17 1.39 Provides: Mgr. Alexander Szabari, PhD., doc. Ing. Štefánia Gallová, CSc. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Project management PRM1/09 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 1. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 21 C A В D Е FX 9.52 28.57 33.33 4.76 19.05 4.76 Provides: Mgr. Alexander Szabari, PhD., doc. RNDr. Gabriel Semanišin, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Project management in SAP ERP PMSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 3 / 1 Per study period: 42 / 14 Course method: present **Number of credits: 5** Recommended semester/trimester of the course: Course level: I., II., N Prerequisities: ÚINF/ZMSP/14 **Conditions for course completion: Learning outcomes: Brief outline of the course:** Business process overview in SAP, project structure definition, project planning, resource planning, costs and revenues, record project activities. **Recommended literature:** Course language: **Notes: Course assessment** Total number of assessed students: 0 abs n 0.0 0.0 Provides: RNDr. Štefan Pero Date of last modification: 17.02.2014

University: P. J. Safá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚINF/ PBS/07					
Course type, scope a Course type: Practi Recommended cou Per week: 1 Per stu Course method: pro	ce rse-load (hours): idy period: 14				
Number of credits:	<u> </u>				
Recommended seme	ester/trimester of the cours	e: 4.			
Course level: I.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the of The seminar is orient		to preparations of Bachelor theses.			
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 184				
abs n					
90.22 9.78					
Provides: RNDr. Tor.	náš Horváth, PhD., RNDr. F	rantišek Galčík, PhD.			
Date of last modifica	ation: 03.02.2014				
Approved: doc. RNI	Dr. Gabriel Semanišin, PhD.				

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚGE/

Course name: Remote sensing

DPZ/13

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 6.

Course level: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Remote Sensing includes – electromagnetic radiation, electromagnetic spectrum, radiometric quantities. Radiation sources, interaction with the surrounding, reflection, impact of the atmosphere, diffusion in the atmosphere, absorption in the atmosphere, landscape objects and their identification and appreciation, data acquire - basic division, cameras, film material, types of aerial images, radiometer, mechanical scanner, electronic scanner, carriers, satellites and their instrumentation, principals of remote sensing data postprocessing, interpretation of satellite and aerial images, remote sensing applications.

Recommended literature:

Lillesand, T. M., Kiefer, R. W., 2002: Remote Sensing and Image Interpretation., New York, John Wiley&Sons, x, 724 s.

Course language:

Notes:

Course assessment

Total number of assessed students: 2

A	В	С	D	Е	FX
0.0	0.0	100.0	0.0	0.0	0.0

Provides: Mgr. Michal Gallay, PhD.

Date of last modification: 11.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: SAP applications in public administration/company

APSP/14

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course:

Course level: I., II., N

Prerequisities: ÚINF/ZSSP/14

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Description of the processes and procedures in the area of SAP budgeting, financing and asset management, SAP for human resources and payroll, SAP Administrative Office system, outputs - reporting in the SAP environment, output options, training outputs, output processing, and exporting data further processing in the environment of Excel, Word ..., inputs - import data in the SAP environment, preparation of input data, the procedure for importing data.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 27

abs	n
100.0	0.0

Provides: RNDr. Štefan Pero, RNDr. Edita Vojtová

Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** SAP basics for consultant ZKSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: I., II., N Prerequisities: ÚINF/ZTSP/14 or ÚINF/SAP1a/06 **Conditions for course completion: Learning outcomes: Brief outline of the course:** Organizational structure and processes (integration of SAP modules). Master records and their importance for the process. Customizing and transports, Standard reporting + Queries, Programming tools - migration, connection to external systems, BADIs, business functions, CMOD, SAP OSS, information retrieval. **Recommended literature:** Course language: **Notes: Course assessment** Total number of assessed students: 0 abs n

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0.0

0.0

Approved: doc. RNDr. Gabriel Semanišin, PhD.

Provides: RNDr. Štefan Pero

Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: SAP basics for user ZSSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: I., II., N Prerequisities: ÚINF/ZTSP/14 or ÚINF/SAP1a/06 **Conditions for course completion: Learning outcomes: Brief outline of the course:** Characteristics of modern systems, effective solutions for the management and operation of institutions, fundamental processes in the institution of government, support for the process from the system. SAP user roles and profiles, case studies in terms of deployment of SAP company. **Recommended literature: Course language:** Notes: **Course assessment** Total number of assessed students: 63 abs n 1000 0.0

Provides: RNDr. Štefan Pero, RNDr. Edita Vojtová

Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: SAP for advanced users PUSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: I., II., N Prerequisities: ÚINF/APSP/14 **Conditions for course completion: Learning outcomes: Brief outline of the course:** One of the training modules: HR (Human Resources), FI (Financial) + CO (Controlling), MM (Material Management). **Recommended literature:** Course language: **Notes: Course assessment** Total number of assessed students: 27 abs n 100.0 0.0 Provides: RNDr. Štefan Pero, RNDr. Edita Vojtová Date of last modification: 17.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** SAP overview ZTSP/14 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 3., 5. Course level: I., II., N **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course:** Defining mySAP Technology (Products, Innovations provided by SAP), Navigation (Logon, Screen Design, Calling Functions), System Kernel (Client/Server Architecture, Structure of an SAP system, Processing in SAP), Communication and Integration Technologies (Remote Function Calls, Internet Technologies). **Recommended literature:** Course language: **Notes: Course assessment** Total number of assessed students: 156 abs n 100.0 0.0 Provides: RNDr. Štefan Pero, RNDr. Edita Vojtová Date of last modification: 17.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	Faculty: Faculty of Science				
Course ID: ÚTVŠ/ ÚTVŠ/CM/13					
Course type, scope a Course type: Practic Recommended cou Per week: 36 Per st Course method: pre	ce rse-load (hours): sudy period: 504 esent				
Number of credits: 2					
	ster/trimester of the cours	<u>e:</u>			
Course level: I., II.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	course:				
Recommended litera	nture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 7				
	abs	n			
57.14 42.86					
Provides: Mgr. Alena Buková, PhD., Mgr. Agata Horbacz, PhD.					
Date of last modification: 15.01.2014					
Approved: doc. RNI	Dr. Gabriel Semanišin, PhD.				

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Security and administration of computer systems BAPS/14 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: I. Prerequisities: ÚINF/KRS/13 and ÚINF/AOS1/07 and ÚINF/ARP1/05 and ÚINF/SKB1/13 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 C Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 **Provides:**

Date of last modification: 19.02.2014

Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Security of computer systems and data BPD1/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities:** ÚINF/OSY1/13 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 2 \mathbf{C} A В D Е FX 0.0 0.0 0.0 0.0 100.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. PhDr. Peter Pisarčík Date of last modification: 03.02.2014

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University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Selected topics in security of computer networks VKBa/13 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present **Number of credits: 3 Recommended semester/trimester of the course:** 5. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 0 \mathbf{C} Α В D Е FX 0.0 0.0 0.0 0.0 0.0 0.0 Provides: doc. RNDr. Jozef Jirásek, PhD., RNDr. JUDr. Pavol Sokol, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Seminar in network programming

SPS1/00

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 3 Per study period: 42

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 5.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To render current technologies of programing in network distributed environment.

Brief outline of the course:

Basics of programming the client-server applications, iterative and concurrent servers, Remote Procedure Calls. Server-side programming, CGI, PHP, basics of Perl and Python. Script languages, ASP, JSP, Component Object Model, Corba, database connection's interfaces. Document Object Model, XML, XSL, dynamic extensions of HTML.

Advanced level of programming is expected.

Recommended literature:

Internet sources and specifications.

Course language:

Notes:

Course assessment

Total number of assessed students: 45

A	В	С	D	Е	FX
66.67	15.56	15.56	0.0	2.22	0.0

Provides: RNDr. Rastislav Krivoš-Belluš, PhD.

Date of last modification: 03 02 2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Seminar to operational systems SOS1/13 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: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 84 C Α В D Е FX 53.57 20.24 10.71 2.38 7.14 5.95

Provides: RNDr. Róbert Novotný, PhD., Mgr. Maroš Andrejko, RNDr. Peter Gurský, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Software and information system PRIS/14 Course type, scope and the method: **Course type: Recommended course-load (hours):** Per week: Per study period: Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: I. Prerequisities: ÚINF/ASU1/13 and ÚINF/TVP1/13 and ÚINF/PMO1/13 and ÚINF/SWI1b/10 **Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 1 C Α В D Е FX 0.0 0.0 0.0 100.0 0.0 0.0 **Provides:** Date of last modification: 19.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

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University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Course name

SWI1a/04

Course name: Software engineering

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: 4.

Course level: L

Prerequisities: ÚINF/DBS1a/03

Conditions for course completion:

Learning outcomes:

To provide information concerning the principal activities related to the development of software products.

Brief outline of the course:

System, subsystem, software system. Software processes. Introduction to project management. Requirements gathering. Software modelilng. Software architectures. Software development methodologies. Verification and validation. Resource management.

Recommended literature:

- 1. BERKUN, S. The Art Of Project Management. O Reilly, 2005.
- 2. BJORNER, D. Software engineering 1,2,3. Springer-Verlag Berlin, 2006.
- 3. SOMMERVILLE, I. Software Engineering. Addison-Wesley, 2007.

Course language:

Notes:

Course assessment

Total number of assessed students: 189

A	В	C	D	Е	FX
12.7	13.76	22.22	21.16	29.1	1.06

Provides: doc. RNDr. Gabriel Semanišin, PhD., Mgr. Alexander Szabari, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: Software engineering

SWI1b/10

Course type, scope and the method:

Course type: Practice

Recommended course-load (hours): Per week: 3 Per study period: 42

Course method: present

Number of credits: 3

Recommended semester/trimester of the course: 5.

Course level: I.

Prerequisities: ÚINF/SWI1a/04

Conditions for course completion:

Learning outcomes:

To learn principles and to developed fundamental skills concerning software modelling, development and implementation.

Brief outline of the course:

Software modelling in UML - the syntax and the semantics of UML diagrams. Foundation of Model Driven Architecture. Selected aspects of project management. Selected legal aspects of SW engineering. Pattern design.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 86

A	В	С	D	Е	FX
18.6	16.28	18.6	16.28	27.91	2.33

Provides: Mgr. Alexander Szabari, PhD., doc. RNDr. Gabriel Semanišin, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Course name:

BZP1a/06

Course name: Special seminar to bachelor thesis

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: 5.

Course level: I.

Prerequisities: ÚINF/PBS/07

Conditions for course completion:

Learning outcomes:

To pick up methods and procedures of solving bigger problems. To show a capability independently and creatively to solve complex problems. To learn writing a solution - starting points, reasons of chosing methods and documentation of a solution.

Brief outline of the course:

Seminar is connected to subjects Bachalor thesis in informatics L.

Recommended literature:

Special and research literature connected to Bachalor 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: 16

abs	n
81.25	18.75

Provides: RNDr. Tomáš Horváth, PhD., RNDr. František Galčík, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Cour

Course name: Special seminar to bachelor thesis

BZP1b/06

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: 6.

Course level: I.

Prerequisities: ÚINF/BZP1a/06

Conditions for course completion:

Learning outcomes:

To pick up methods and procedures of solving bigger problems. To show a capability independently and creatively to solve complex problems. To learn writing a solution - starting points, reasons of chosing methods and documentation of a solution.

Brief outline of the course:

Seminar is connected to subjects Bachalor thesis in informatics L.

Recommended literature:

Special and research literature connected to Bachalor 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: 15

abs	n
93.33	6.67

Provides: RNDr. Tomáš Horváth, PhD., RNDr. František Galčík, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ | Course nan

TVa/11

Course name: Sports Activities I.

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 1.

Course level: I., I.II., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 7160

abs	n	neabs
88.42	7.82	3.76

Provides: PaedDr. Imrich Staško, doc. PhDr. Ivan Šulc, CSc., doc. Mgr. Rastislav Feč, PhD., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, Mgr. Peter Bakalár, PhD., doc. PaedDr. Ivan Uher, PhD., PaedDr. Milena Švedová, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško

Date of last modification: 15.01.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚTVŠ/ C

Course name: Sports Activities II.

TVb/11

Course type, scope and the method:

Course type: Practice

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

Course method: present

Number of credits: 2

Recommended semester/trimester of the course: 2.

Course level: I., I.II., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 6364

abs	n	neabs
84.95	11.06	3.99

Provides: PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, doc. PaedDr. Ivan Uher, PhD., Mgr. Peter Bakalár, PhD., PaedDr. Milena Švedová, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško

Date of last modification: 15.01.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚTVŠ/ Course name: Sports Activities III. TVc/11 Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 3. Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes:**

Brief outline of the course:

,

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 4191

abs	n	neabs
89.91	4.72	5.37

Provides: PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, doc. PaedDr. Ivan Uher, PhD., PaedDr. Milena Švedová, PhD., Mgr. Peter Bakalár, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško

Date of last modification: 15.01.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚTVŠ/ Course name: Sports Activities IV. TVd/11 Course type, scope and the method: **Course type:** Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 Recommended semester/trimester of the course: 4. Course level: I., I.II., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature: Course language: Notes:** Course assessment Total number of assessed students: 3363 abs neabs n 6.78 7.08 86.14

Provides: PaedDr. Imrich Staško, doc. Mgr. Rastislav Feč, PhD., doc. PhDr. Ivan Šulc, CSc., Mgr. Ivan Matúš, PhD., Mgr. Zuzana Küchelová, PaedDr. Milena Švedová, PhD., Mgr. Peter Bakalár, PhD., doc. PaedDr. Ivan Uher, PhD., Mgr. Agata Horbacz, PhD., Mgr. Marek Valanský, Mgr. Dávid Kaško

Date of last modification: 15.01.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ **Course name:** Statistical Methods of Data Analysis

MSU/07

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 3.

Course level: I.

Prerequisities:

Conditions for course completion:

Exam

Learning outcomes:

Introduction to probability theory and mathematical statistics.

Brief outline of the course:

General introduction to theory of probability, random processes and mathematical statistics.

Recommended literature:

- 1) L. Lyons, Statistics for Nuclear and Particle Physics, CUP, 1989.
- 2) L. Lyons, A Practical Guide to Data Analysis for Physical Science Students, CUP, 1991.
- 3) J.R. Taylor, An Introduction to Error Analysis: The Study of Uncertainties in Physical Measurements, University Science Books, 1997.

Course language:

Notes:

Course assessment

Total number of assessed students: 19

A	В	С	D	E	FX
15.79	15.79	21.05	0.0	47.37	0.0

Provides: doc. RNDr. Jozef Urbán, CSc., RNDr. Adela Kravčáková, PhD.

Date of last modification: 11 02 2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ Course name: S

SXM1/13

Course name: Structure formats and representation of data

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: I.

Prerequisities:

Conditions for course completion:

Evaluation of partial assignments within larger project.

Evaluation of multiple assignments corresponding to learning blocks.

Learning outcomes:

Become acknowledged with theoretical concepts and methodologies with structured and semistructured data. Acquire programming skills with implementations of these concepts.

Brief outline of the course:

Recommended literature:

- 1. Eliotte "Rusty" Harold. XML Bible, Gold Edition. Wiley, 2001. ISBN 978-0764548192.
- 2. Grigoris Antoniou, Frank Van Harmelen. A Semantic Web Primer, Second Edition. MIT Press, 2008. ISBN 978-0262012423.
- 3. Michaek Kay. XSLT 2.0 Programmer's Reference, 3rd Edition. Wrox, 2004. ISBN: 978-076456909.

Course language:

Notes:

Course assessment

Total number of assessed students: 4

A	В	С	D	Е	FX
25.0	25.0	25.0	0.0	25.0	0.0

Provides: RNDr. Róbert Novotný, PhD., RNDr. František Galčík, PhD.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Student scientific conference SVK1/00 Course type, scope and the method: **Course type:** Recommended course-load (hours): Per week: Per study period: Course method: present Number of credits: 4 Recommended semester/trimester of the course: 6. Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 101 C Α В D Е FX 100.0 0.0 0.0 0.0 0.0 0.0 **Provides:** Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafá	rik University in Košice					
Faculty: Faculty of S	cience					
Course ID: ÚTVŠ/ LKSp//13	Course name: Summer Co	Course name: Summer Course-Rafting of TISA River				
Course type, scope a Course type: Practic Recommended cour Per week: 36 Per st Course method: pre	ce rse-load (hours): udy period: 504 esent					
Number of credits: 2						
	ster/trimester of the cours	;: 				
Course level: I., II.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	ture:					
Course language:						
Notes:						
Course assessment Total number of asses	ssed students: 63					
	abs	n				
41.27 58.73						
Provides: Mgr. Peter	Bakalár, PhD.					
Date of last modifica	tion: 15.01.2014					
Approved: doc. RNE	Pr. Gabriel Semanišin, PhD.					

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ KP/12	Course name: Survival Cour	se	
Course type, scope a Course type: Practic Recommended cou Per week: 36 Per st Course method: pre	ce rse-load (hours): cudy period: 504 esent		
Number of credits: 2			
	ester/trimester of the course:		
Course level: I., II.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	course:		
Recommended litera	ature:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 185		
	abs	n	
41.62 58.38			
Provides: Mgr. Mare	k Valanský		
Date of last modifica	ntion: 15.01.2014		
Approved: doc. RNI	Dr. Gabriel Semanišin, PhD.		

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ | Course n

Course name: Symbolic logic

SLO1a/06

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 2.

Course level: I., II.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To understand basic notions of sentence and predicate logic - sentence, sentence scheme, provability, satisfiability, term, formula.

Brief outline of the course:

Predicate logic – logic language, syntax and semantics, term, formula. Axioms, proof, provability. Interpretation, truth, model. Correctness of the predicate logic.

Recommended literature:

GOLDSTERN M., JUDAH H.: The Incompleteness Phenomenon, A New Course in

Mathematical Logic, A K Peters, Wellesley, Massachusetts, 1995

http://cs.ics.upjs.sk/~krajci/skola/vyucba/ucebneTexty/logika/logika.pdf

Course language:

Notes:

Course assessment

Total number of assessed students: 324

A	В	С	D	Е	FX
18.21	7.41	13.58	12.35	33.33	15.12

Provides: doc. RNDr. Stanislav Krajči, PhD.

Date of last modification: 03 02 2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/

Course name: System programming

SPR1a/09

Course type, scope and the method:

Course type: Lecture / Practice

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

Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 4., 6.

Course level: I.

Prerequisities: ÚINF/JAC1/11

Conditions for course completion:

Learning outcomes:

Provide and demonstrate basic concepts of Android system programming.

Brief outline of the course:

Introduction to programming in OS Android.

Recommended literature:

- 1. Mark L. Murphy: The Busy Coder's Guide to Android Development. CommonsWare, LLC, 2009. ISBN: 978-0981678009
- 2. W. Frank Ableson, Robi Sen, Chris King and C. Enrique Ortiz: Android in Action Third Edition. Manning, 2011. ISBN 9781617290503

Course language:

Notes:

Course assessment

Total number of assessed students: 62

A	В	С	D	Е	FX
33.87	12.9	11.29	11.29	11.29	19.35

Provides: RNDr. Róbert Novotný, PhD., doc. RNDr. Gabriela Andrejková, CSc.

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ **Course name:** Testing and verification of programs TVP1/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of credits: 5** Recommended semester/trimester of the course: 6. Course level: I. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 3 C Α В D Е FX 33.33 0.0 66.67 0.0 0.0 0.0 Provides: doc. RNDr. Gabriela Andrejková, CSc., Mgr. Alexander Szabari, PhD. Date of last modification: 03.02.2014 Approved: doc. RNDr. Gabriel Semanišin, PhD.

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚINF/ C

Course name: Typographical systems

TYS1/06

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: I.

Prerequisities:

Conditions for course completion:

Learning outcomes:

To provide the basic information on principles for typesetting of documents containing mathematical formulas in Plain TeX, AMS-TeX, and LaTeX.

Brief outline of the course:

Typesetting of a plain text, special text symbols, using of text fonts. TeX macros. Enumerations in text and footnote command. Parameter setting determining the appearance of the pages. Typesetting of mathematical formulas in text and displays, aligning formulas. Definitions of TeX macros. Making tables and pictures. Definitions, theorems, and proofs in a mathematical document. Contents, bibliography, sections in a document.

Recommended literature:

Course language:

Notes:

Course assessment

Total number of assessed students: 223

A	В	С	D	Е	FX
46.64	18.39	21.08	5.38	7.62	0.9

Provides: doc. RNDr. Stanislav Krajči, PhD.

Date of last modification: 03 02 2014

University: P. J. Šafá	rik University in Košice
Faculty: Faculty of S	cience
Course ID: ÚINF/ POS2a/09	Course name: User environments of operating systems
Course type, scope a Course type: Practic Recommended cour Per week: 2 Per stu Course method: pre	ce rse-load (hours): dy period: 28
Number of credits: 2	
Recommended seme	ster/trimester of the course: 1.
Course level: I.	
Prerequisities:	
Conditions for cours Test - solving practic final test	-
advantages, disadvan	r interfaces of operation systems Windows and Linux, to know their options, tages and differences. If interfaces of operation systems windows and Linux, to know their options, tages and differences. If it is a system software and to use internal interna
monitoring and mod monitoring, firewall. Basic features of FAT permissions. Making OS GNU/Linux, dir Managing with files Internet. Firewall. Pr	raccounts management, sharing, mounting remote directories. Processes, diffication of system parameters. Connecting to the Internet, settings and a NTFS file systems. Disk management, backups, recovery. File and directory links to files and directories. Virtualization and emulation of OS. rectories structure, shell. Running jobs, scheduling, jobs on background. and directories, backups, file permissions, user groups. Connecting to the ograms installation, Package managers, actualization. Backups on local and ing. RAID field Management.
Recommended litera	uture:
(2) Linux - Dokumen (3) Bitto, O.: Příkazo (4) Selecký, M.: Win	azový řádek v Linuxu, praktická řešení. Computer press. 2011. ntační projekt, 4. aktualizované vydanie. Computer press. 2007. vý řádek Windows 7. Computer press. 2011. dows Sysinternals: Vylaďte si systém. 2013.
Course languages	

Notes:

Course assessn Total number o	nent f assessed studen	ts: 18			
A	В	С	D	Е	FX
27.78 11.11 22.22 22.22 16.67 0.0					
Provides: RND	Provides: RNDr IUDr Pavol Sokol PhD				

Date of last modification: 03.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚINF/ Course name: Web a návrh používateľ ských rozhraní WBdi/13 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 1 Per study period: 28 / 14 Course method: present Number of credits: 4 **Recommended semester/trimester of the course:** 1. Course level: I., II. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 61 C Α В D Е FX 11.48 8.2 9.84 18.03 16.39 36.07 Provides: RNDr. L'ubomír Šnajder, PhD., PaedDr. Ján Guniš, PhD. Date of last modification: 03.02.2014

University: P. J. Safá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚTVŠ/ ZKLS//13	Course name: Winter Ski	Training Course	
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	2		
Recommended seme	ster/trimester of the cours	e:	
Course level: I., II.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 59		
	abs	n	
25.42 74.58			
Provides: PaedDr. Im	nrich Staško, doc. PhDr. Ivar	ı Šulc, CSc.	
Date of last modifica	ation: 15.01.2014		
Approved: doc. RND	Dr. Gabriel Semanišin, PhD.		