ANNUAL REPORT 2010

UNIVERSITY OF ŽILINA



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FACULTY OF MANAGEMENT SCIENCE AND INFORMATICS



Foreword

The Faculty of Management Science and Informatics is one of seven Faculties of the University of Žilina. It was established in 1990 as a result of integrating the Department of Technical Cybernetics, which at that time was part of the Faculty of Mechanical- Electro Engineering, with the programme Cybernetics in Transport and Communications, and also the Department Mathematical Methods and the Department of Economy in Transport, which was part of the Faculty of Operation and Economy of Transport and Communications, and also the Institute for Development of Communications. This year the Faculty of Management Science and Informatics celebrated its 20th anniversary, which was an occasion to look back and recall some important persons and their activities, especially in the first years after the Faculty's creation.

The first study programmes after the creation of the Faculty were **Information and Control Systems** and **Applied Mathematics**. New trends in information and communication technologies, which influenced innovation in the study programmes, as well the acceptance of the Bologna Process rules in higher education, led in 2002 to the need to restructure these programmes. At present, we offer the study at the all three levels programmes (**Bachelors**, **Masters** and **Doctoral**).All programmes are officially approved by the Accreditation Commission of the Slovak Republic. The programmes are interdisciplinary; they were conceived and created based on many years of the Faculty's successful educational tradition. Detailed descriptions of these programmes is performed in following text

Education at each of these three levels has a theme of active and cooperative participation of lecturers, students, research workers and doctoral students. Students are involved in projects, for their bachelors or masters theses, which are part of the scientific work of research groups in the Faculty, in the wider University or in external cooperating organisations.

The Faculty primarily specialises in control and management activities in extensive systems. These include problems of managing and optimising the transfer of objects, as well as the designing of integrated interactive information systems for decision making support including economic connections and technical background. There are the problems of control and optimization for transport of subjects (information, goods and passengers), transfer of information, processing of information and design of integrated interactive information systems for support of decision-making, including economic considerations and technical security. The Faculty is interested in control and information systems with application for management, and transport systems from

small-sized networks, such as a firm or company, through medium-sized, such as a region, to large-sized networks

During its existence, the Faculty of Management Science and Informatics, as a scientificpedagogical institution, became a worthy equal partner to similar faculties not just in Slovakia, but abroad as well. The creation of this reputation and identity was a strenuous process but now the scientific and academic staff of the Faculty, as well as their graduates, have achieved a welldeserved position in the world-wide academic (informatics and management) community.

In conclusion I would like to stress that the main task of the technical-oriented faculties is to conduct continual education and research so that the knowledge obtained permits the graduates to contribute to society. I believe that our Faculty's activities are helping our present and future students to be fully valuable individuals, capable of using their knowledge, skills and experiences in the conditions of the new millennium

Prof.Ing. Karol M a t i a š k o , PhD. Dean

Presidium of the Faculty:

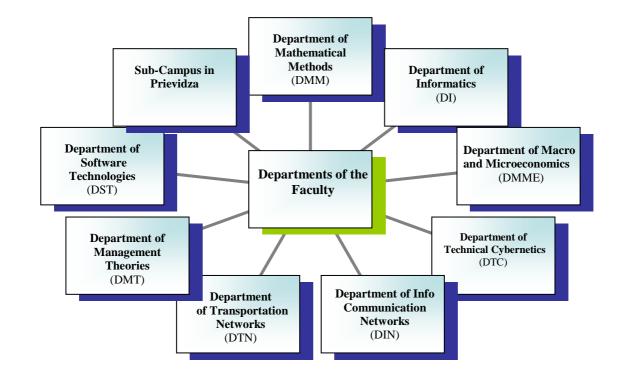
Dean:	Prof. Ing. Karol Matiaško, PhD.	
		Tel.: ++421-41-513 40 51 Fax: ++ 421-41-565 40 55
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		Tel.: +421-41- 513 40 72
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	Prof.Ing. Matilda D r o z d o v á , PhD. Vice-Dean for Science	
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	Vice-Dean for International Affairs	
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Assoc.Prof.Ing. Michal **Z á b o v s k ý**, PhD. Vice-Dean for International Affairs (from December 1st, 2010) Tel.: +421-41-513 40 53 e-mail: michal.zabovsky@fri.uniza.sk

Faculty Registrar: Ing. Beata Holková, PhD.

Tel.: +421-41-513 40 75 e-mail: beata.holkova@fri.uniza sk

Departments of the Faculty:



The FMSI has eight Departments and one Sub-Campus. They are:

Educational Activities

Educational activities consist of:

- Design and realization of technical means for information and management systems
- Analysis and synthesis of regulation and automation systems
- Control and optimisation methods
- Data transmission and data processing
- Issues concerning multimedia information systems, graphic systems and simulation of components for communication networks, systems and mathematical modelling
- Management, marketing, logistics, entrepreneurial skills, creation of transport and communication systems

At the present Faculty provides educational programmes in following accredited programmes of study:

Full time 3-year Bachelors Degree programme in:

- > Informatics
- Computer Engineering
- > Management

The programme is a well-rounded higher education in the 1st degree.

Target of the **Bachelors level** consists in preparation of experts for application of acquired knowledge in their professional life and at the same time to be able for study in the higher levels (MSc. PhD).

Additional 2 years **Masters Degree** programmes of study are in the following accredited fields:

- > Information Systems
- > Computer Engineering
- > Management

In the Programme *Information Systems* there are possibilities for the students to make choice in following Professional Orientations:

- Applied Informatics
- Systems of Support for Decision-Making
- Information-Communication Networks
- **o** Business Informatics
- o Distributed and Parallel Systems

Targets of the **Masters level** consist in preparation of experts for commanding places in the area of application of acquired knowledge in the praxis, in the research and science and at the same time to be able for study in the doctoral level

Doctoral Programme

The Doctoral Programme at the Faculty involves the following scientific disciplines:

- > Applied Informatics
- > Management

Doctoral Programme is the highest level of higher education. The aim of the Doctoral Programme is to prepare the graduate student for independent, creative scientific-research work by giving the student comprehensive theoretical knowledge and mastery of the methods of scientific work as demonstrated in a given scientific project. The programme lasts three years (full time) or five years (part time). The Doctoral Programme requires 3 semesters of advanced study, satisfactory completion of a comprehensive examination, then, after 3rd semesters, submission of a written dissertation, based on independent original research that must be a significant contribution to the field of study. Oral examination consists of a defence of the dissertation. The graduate is granted the scientific academic title "**Philosophiae Doctor** (abbr. **PhD.**)", which is written in abbreviation after the candidate's name.

Scientific and Professional Orientation of the Faculty:

The Faculty is involved in the following scientific fields:

- Analysis, synthesis and design of integrated information and control systems
- Creation of integrated systems for the support of decision-making, including its economical correlations and technical equipment requirements
- Management, marketing, logistics and enterprising in the general field of transportation and communication systems

- Problem-solving design in transportation and communication systems and relative tasks of control
- Control and optimisation of transportation of products and persons
- Control and optimisation of database creation, transmission and data processing
- Analysis, synthesis and design of multimedia information systems
- Analysis, synthesis and design of geographical information systems
- Design and realization of simulation components for communication networks and systems
- Design and realization of technical means for information and control systems

Scientific activities of the Faculty:

In 2010 there were 2 projects of International Science and Technology Cooperation, 10 projects supported from Science and Education Grant Agency and Cultural and Education Grant Agency – Ministry of Education in Slovak Republic solved at the Faculty. They are:

International Science and Technology Cooperation

1. STF LoE S36/02	Customer in the Loop (Using Networked Devices enabled Intelligence for
	Proactive Customers Integration as Drivers of the Integrated Enterprise)
	Assoc.Prof.Ing. Tatiana Kováčiková, PhD.

2. ETSI STF 331 *ICT GRID Technologies Interoperability and Standardization* Assoc.Prof.Ing. Tatiana **Kováčiková**, PhD.

Science and Education Grant Agency – Ministry of Education in Slovak Republic

- 1. 1/0598/10 Using of Visualization Techniques by Investigation of Wide-Ranging Databases Assoc.Prof.Ing. Michal Zábovský, PhD
- 2. 1/0361/10 Optimal Design of Public Operating Systems in Undetermined Conditions Prof.Ing. Jaroslav Janáček, PhD.
- 1/0667/10 Soft Technique in Modelling and Prediction of Economical and Financial Time Ranges, Ing. Lucia Pančíková, PhD.
- 4. 1/0796/08 *Modelling and Data Processing in Wide-Ranging Databases* Prof.Ing. Karol **Matiaško**, PhD.
- 5. 1/0808/08 Self-Adjusting and Teaching Algorithms of Automatic Control Prof.Ing. Mikuláš **Alexík**, PhD.
- 1/0664/08 Design of Algorithms for Adjustment of Data Based on of Several Values Logics and Fuzzy Logics Assoc.Prof.Ing. Vitaly Levashenko, PhD.

- 7. 1/0495/08 Design of New Access System and Methods for References of Effectively Exploitation and Optimal Combination of Production Inputs by Using of Macro- and Micro-Economy Aspect and Prior Orientation to Human Capital Assoc.Prof.Ing.Alžbeta Kucharčíková, PhD
- 8. 1/0135/08 Optimisation Problems in Logistics and Transportation Systems AssocProf.RNDr. Štefan **Peško**, PhD.
- 9. 1/0878/08 Development of Knowledge Management Theory (research of problems for enterprise management based upon work and using of knowledge from the economic science point of view Prof-.Ing. Štefan Hittmár, PhD.

Cultural and Education Grant Agency - Ministry of Education in Slovak Republic

1. 421-032ŽU-4/2010 Repeatedly Applicable Education Objects for Digital Library Prof.Ing. Matilda Drozdová, PhD.

Scientific Board:

Chairman:	Prof.Ing Karol Matiaško, PhD.
Members:	Assoc.Prof.Ing. Martina Blašková , PhD. Assoc.Prof.Ing. Pavel Čičák, PhD. Prof.Ing. Milan Dado , PhD. Prof.Ing. Matilda Drozdová , PhD. Ing. Mária Ďurišová , PhD. Assoc.Prof.Ing. Peter Fabían , PhD. Assoc.Prof.RNDr. Elena Gramatová , PhD. Assoc.Prof. Zdeněk Havlice , PhD. Prof. Ing. Štefan Hittmár , PhD. Assoc.Prof. Ing. Miroslav Hrnčiar , PhD. Assoc. Prof. Ing. Vladimír Jamrich , PhD. Prof. RNDr. Jaroslav Janáček , PhD. Assoc.Prof.Ing. Ľudmila Jánošíková , PhD. Prof. Ing. Martin Klimo , PhD. Prof. Ing. Milan Kolesár , PhD. Assoc.Prof.Ing. Emil Kršák , PhD. Assoc.Prof.Ing. Ivaj Miček , PhD. Assoc.Prof. Ing. Vladimír Mlynarovič , PhD. Assoc. Prof. Ing. Vladimír Mlynarovič , PhD. Prof. Ing. Ladislav Šimák , PhD. Prof. Ing. Karel Šotek , PhD.

In the procedure to be appointed as a *Professor* in 2010 was successful

1 Assoc.Prof.Ing. Matilda Drozdová, PhD.

In the procedure to be appointed as a Associated Professor were successful

- 1. Ing. Emil Kršák, PhD.
- 2. Ing. Peter Matis, PhD.
- 3. Ing. Katarína Bachratá, PhD.
- 4. Ing. Ľuboš B u z n a , PhD.
- 5. Dr. Konrad Glebocký, PhD.

Scientific Board of the Faculty, after successful defence of Dissertation Thesis, has appointed in 2010 with title **PhD**. following graduates of Doctoral Programme:

- 1. Ing. Roman Kaloč
- 2. Ing. Elena Polohová
- 3. Ing. Ivana Drotárová
- 4. Ing. Jaroslava Štaffenová
- 5. Ing. Michal Fraňo
- 6. Ing. Patrik Hrkút
- 7. Ing. Ján Janech
- 8. Ing. Andrej Holúbek
- 9. Mgr. Vladimír M e d v i ď
- 10. Ing. Mária Čerňanská
- 11. Ing. Ondrej Škvarek
- 12. Ing. Juraj Boroň

Publication Activities:

Members of the Faculty of Management Science and Informatics have published in the year 2010 results of research activity in **206** publications. Among them there are **3** on the level of scientific monographs, **3** university textbooks published in Slovakia, **3** scientific works published in prestigious scientific foreign journals, **24** scientific works in foreign journals, **29** Scientific Works in Domestic Journals and **3** Scientific Works in Foreign Reviewed Proceedings. Some of the more significant titles there are in the following list.

Scientific Monographs

- JANÁČEK, J.: Designing spatially extensive service systems 2010, 1 ed. ISBN 978-80-554-0219-2
- HITKA, M.: Corporate culture in human resource management 2010, 1 ed. ISBN 978-80-228-2151-3
- MIČEK, J., JURÍČEK, J.: Noise in signal processing systems 1 ed. - ISBN 978-80-554-0171-3

University Textbooks published in Slovakia

BACHRATÝ, H., GRENDÁR, M., BACHRATÁ, K.: *How to calculate the probability?* 2010, 1 ed. - ISBN 978-80-554-0226-0

- MATIS, P.: Geographic information systems 2010, 1 ed. - ISBN 978-80-554-0214-7
- KUCHARČÍKOVÁ, A., TOKARČÍKOVÁ, E.: *Basics of economic theory* 3rd update and suppl. ed. ISBN 978-80-554-0179-9

Scientific Articles in Prestigious Foreign Journals

- HANULIAK, I., HANULIAK, P.: *Performance evaluation of iterative parallel algorithms* In: Kybernetes - Vol. 39, No. 1 (2010), pp. 107-126
- POČTA, P., TURSKÝ, J., PALÚCH, P.: Design and evaluation of novel VoIP link adaptation algorithm based on GTS function
 In: AEU-international journal of electronics and communications Vol. 64, no. 3 (2010), pp. 191-201
- BOHÁČIK, J,: *Discovering fuzzy rules in databases with linguistic variable elimination* In: Neural network world - Vol. 20, sp. iss. 1 (2010), pp. 45-61

Scientific Articles in Foreign Journals

- GRONDŽÁK, K, KORTIS, P.: *Modified maximum clique exact algorithm* In: Radio-electronic and computer systems - No. 2 (43) (2010), pp. 82-85
- JANECH, J.: Distributed database systems in the dynamic netArticles environment In: International journal on information technologies and security - Year 2, no. 1 (2010), pp. 43-52
- MATIS, P.: *Creation of new distribution network distribution of mail in Slovak republic* In: Promet - Traffic& Transportation - Vol. 22, no. 6 (2010), pp. 413-418
- DICOVA, J., ONDRUŠ, J.: *Road charging in urban areas in the middle-size city* In: Archives of transport system telematics - Vol. 3, Ispp. 1 (February 2010), pp. 39-44
- VODÁK, J.: *How to measure return on investment into human capital development* In: Sosyal Bilimler Dergisi - Vol. 7, No. 1 (2010), pp. 1-20
- BLAŠKOVÁ, M., BLAŠKO, R.: *Motivation policies in the public sector of the Slovak Republic* In: Viešoji politika ir administravimas - No. 32 (2010), pp. 19-31

- LENDEL, V., VARMUS, M.: *Proposal of model for creating innovation strategy* In: Scientific papers of the University of Pardubice - Vol. 16, č. 1 (2010), pp. 178-191
- LENDEL, V., KUBINA, M.: New trends in customer relationship management and their application in Slovak enterprises In: Trendy ekonomiky a manžmentu - Vol. 4, č. 06 (2010), pp. 19-26
- GAŠPARÍK, J., LENDEL, V.: Process portal for railway sector In: Logi - Vol. 1. No. 1 (2010), pp. 33-43
- LENDEL, V., VARMUS, M.: *Innovative potential of the* strategy In: Ekonomika - Management - Inovace - Vol. 2, č. 1 (2010), pp. 47-53
- DICOVA, J., ONDRUŠ, J.: Development of public passenger transport in Slovakia In: Logi - Vol. 1. No. 1 (2010), pp. 20-25
- KARDOŠ, M., DROZDOVÁ, M.: Analytical method of CIM to PIM transformation in Model Driven Architecture (MDA)
 In: Journal of information and Organizational sciences - Vol. 34, no.1 (2010), pp. 89-99
- LISTER, R ... [et al.]:*Naturally occurring data as research instrument: analyzing examination responses to study the novice programme* In: ACM SIGCSE Bulletin - Vol. 41, no. 4 (2009), pp. 156-173
- MARČEK, M., MATUŠÍK, P., MARČEK, D.: Forecasts for financial data using ARCH-GARCH and Brown's exponential smoothing model In: ECON '10 - Vol. 17, no. 1 (2010), pp. 26-32
- BIZOŇOVÁ, Z., PILÁTOVÁ, K.: Model-driven analysis towards interoperability of assessments in LMS
 - In: Journal of information and organizational sciences Vol. 34 (2010), no. 1, pp. 27-39
- BLAŠKOVÁ, M.: Creative proactive-concluding theory of motivating In: Verslas: teorija ir praktika - Vol. 11, no. 1 (2010), pp. 39-48
- GRONDŽÁK, K, KORTIS, P.: *Heuristic algorithm for the PIN code generation* In: International journal on information technologies and security - Year 2, no. 1 (2010), pp. 53-58
- BOHÁČIK, J.: Survey of methods for extracting fuzzy rules using classification ambiguity In: International journal on information technologies and security - Vol. 2, no. 2 (2010), pp. 33-44
- JANÁČEK, J., LINDA, B., RIČELOVÁ, E.: Optimization of municipalities with extended competence selection In: Prague economic papers - Vol. 19, No. 1 (2010), pp. 21-34
- MATIS, P.: Creation of distribution network with a use of aggregation methods In: Perner's Contacts -Vol. 5, č. 1 (2010), pp. 170-178
- POTTER, M., MATIS, P.: Geomarketing potential in solving the tasks of segmentation and targeting market In: Perner's Contacts - Vol. 5, no. 1 (2010), pp. 95-103
- ADAMKO, N., KLIMA, V., MARTON, P.: Designing railway terminals using simulation techniques In: International Journal of Civil Engineering - Vol. 8, No. 1 (3-2010), pp. 57-67

- MATIS, P.: Finding a solution for a complex street routing problem using the mixed mode transportation In: Transport - Vol. 25, No. 1 (2010), pp. 29-35
- MIKUŠ, Ľ.: *Rating errors in backbone netArticles* In: Elektrorevue - published 24.-03.31.2010

Scientific Articles in Domestic Journals

- STANÍKOVÁ, K.: SOA new phenomenon In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 199-208
- JANECH, J. BAČA, T.: *Distributed database system in vehicular ad-hoc network environment* In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 95-104
- BAČA, T., JANECH, J.: DSM tool UML .FRI in educational process
 In: Journal of Information, Control and Management Systems Vol. 8, No. 2 (2010), pp. 3-10
- LADOVSKY, T.: *The matrix permutation problem in fuzzy arithmetic* In: Journal of Information, Control and Management Systems - Vol. 8, No. 4 - spec. ispp. (2010), pp. 365-374
- HORVATH, M. MARČEK, D.: *Linguistically fuzzy rules derived by neutral network* In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 73-79
- ZAITSEVA, E., LEVASHENKO, V., KAVALÍK, Š.: *Boolean derivatives in reliability analysis* In: Journal of information, control and management system - Vol. 8, No.2 (2010), pp. 217-228
- LENDEL, V., KUBINA, M.: *Identification of general relations between management and CRM* In: Studia commercialia Bratislavensia - Roč. 3, č. 9 (1/2010), pp. 68-7
- LENDEL, V.: Lateral Marketing success is through innovation In: Marketing inspirations - Roč. 5, č. 1 (2010), pp. 20-26
- RICHTER, L.: *Bata's ideas as inspiration* In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 169-176
- KUBINA, M.: Principles of cooperation for successful use of customer relationship management in business praxis
 In: Journal of Information, Control and Management Systems Vol. 8, No. 1 (2010), pp. 31-36
- HITTMÁR, Š.: *Model of management in the transport firm* In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 53-62

- MUŽÍKOVÁ, K.: Effective decision making in the prisoner's dilemma scenario In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 139-148
- SOVIAR, J.: *Theoretical approach to the environment of management study* In: Journal of Information, Control and Management Systems - Vol. 8, No. 1 (2010), pp. 81-85
- SOVIAR, J., STRIŠŠ, J.: Business ethics frame recommendations for the Slovak environment In: Journal of Information, Control and Management Systems - Vol. 8, No. 1 (2010), pp. 87-91
- LENDEL, V., ŠTENCL, M.: Possibility of applying artificial intelligence in terms of intelligent transport systems In: Journal of Information, Control and Management Systems - Vol. 8, No. 1 (2010), pp. 37-45
- VARMUS, M.: Particularities of marketing mix in the services sphere In: Journal of Information, Control and Management Systems - Vol. 8, No. 1 (2010), pp. 101-106
- FAKTOR, M.: Computing the ARC length of the trajectory in electron model in atom of hydrogen with space structure of Vivian's curve
 In: Journal of Information, Control and Management Systems Vol. 8, No. 2 (2010), pp. 21-26
- NATŠINOVÁ, Z. S.: Application of the methods decision tables and decision-making process in management
 In: Journal of Information, Control and Management Systems Vol. 8, No. 2 (2010), pp. 149-157
- NATŠINOVÁ, Z. S.: Application method decision tables In: Journal of Information, Control and Management Systems - Vol. 8, No. 1 (2010), pp. 51-56
- KORMANCOVÁ, M.: *How to develop the talents of employees in desired direction?* In: Journal of Information, Control and Management Systems - Vol. 8, No. 1 (2010), pp. 25-30
- MAJEROVÁ, R.: *Planning on the base of human-potential effectiveness* In: HRM&E - Vol. 4, no. 1 (2010), pp. 51-62
- HODOŇ, M.: EGNOS influence on the positioning accuracy In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 63-72
- JUREČKA, M.: Recommendations for pulse coupled neural network parameters setting In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 105-110

- MAJEROVÁ, R.: *Relation between HR system and effectiveness evaluation* In: Journal of Information, Control and Management Systems - Vol. 8, No. 1 (2010), pp. 47-50
- CHOCHLÍK, M.: Generating object factory classes with the Mirror reflection library In: Journal of Information, Control and Management Systems - Vol. 8, no. 2 (2010), pp. 83-94
- MURÍN, M., ULBRICHT, M.: Mathematical model of multicriteria scheduling in grid environment and its performance
 In: Journal of Information, Control and Management Systems - Vol. 8, No. 2 (2010), pp. 129-138
- ONDRUŠ, J., DICOVÁ, J.: Importance of Safety Mark for Transport Organizations In: Doprava a spoje - Č. 1 (2010), pp. 183-189
- ČERŇANSKÁ, M., ŠKVAREK, O.: *Clustering of Slovak sentence melody methods and results* In: Communications - Vol. 12, No. 1 (2010), pp. 58-64
- BOHÁČIK, J., MATIAŠKO, K., ROSSETI, R.: Summary of making fuzzy rules from decision trees based on cumulative information and classification ambiguity
 In: Journal of Information Technologies No. 1 (2010), pp. 1-17

Scientific Articles in Foreign Reviewed Proceedings

- GÁBRYŠOVÁ, M., VODÁK, J.: *How to successfully build business in times of crisis* In: Partnerstwo i współpraca a kryzys gospodarczo-społecny v Europie środkowej i wschodniej - pp. 262-276
- LENDEL, V., KUBINA, M.: *The importance and role of CRM in current period of Globalization and economic crisis* In: Globalization and crises in modern economy - pp. 127-132
- MARČEK, D., MATUŠÍK, P.: *Machine Learning with a teacher and without teacher: a statistical and soft approach* In: Cognition and Artificial Life X - pp. 239-244

Academic Senate:

Chairman:

RNDr. Štefan Kovalík, PhD.

Senate Registrar:

Assoc.Prof.Ing. Ľudmila Jánošíková, PhD.

Chamber of Employees:

Assoc.Prof.Ing. Martina Blašková, PhD. RNDr. Hynek Bachratý, PhD. RNDr. Peter VaršaPhD. Ing Jozef Gajdošík Ing. Juraj Dubovec, PhD. Mgr.Ing. Ľubomír Sadloň, PhD.

Assoc.Prof.RNDrStanislav Palúch, PhD. Assoc.Prof.Ing. Emil Kršák, PhD. Ing. Jozef Mičic Ing. Ján Kapitulík, PhD.

Assoc.Prof RNDr. Katarína B a c h r a t á , PhD

Ing. Jozef Juríček, PhD..

Chamber of Students:	
Eduard Baraniak	Marek Šajna
Jakub Kordia k	Daniela Skovajsová
Lukáš Lehota	Jaroslav Verníček
Juraj Kubica	

Official guests from foreign institutions accepted by Deans Office in 2010:

- 1. Prof. DrSc. Vyacheslav Kharchenko, National Aerospace University, Kharkiv, (UE)
- 2. Prof. Esa Salmikangas, JAMK University of Applied Sciences, Jyväskylä, (FIN)
- 3. Prof . Nadežda Fila, Transport and Telecommunication Institute, Riga (LT)
- 4. Prof. Dr.Ing. h.c. multip. Eckehard Schnieder, TU Braunschweig, (D)
- 5. Assoc.Prof. Jouni Huotari, PhD., JAMK University of Applied Sciences, (FIN)
- 6. Prof. Wojciech **Kornet**, College of Computer Science and Business Administration in Lomža, (PL)
- 7. Dr.Ing. Ryszard. **Szcebiot**, College of Computer Science and Business Administration in Lomža, (PL)
- 8. Prof. Thomas **Semmler**, Telecom Bretagne, Brest, (F)
- 9. Prof. José Therssen, Telecom Bretagne, Brest, (F)
- 10. Mrs. Catarina. Sable, Telecom Bretagne, Brest, (F)
- 11. Mr. André Guyomar, Telecom Bretagne, Brest, (F)
- 12. Ms. Evgenia Novikova, SPbSUT, St. Petersburg, (RUS)
- 13. Ms. Natalia Nikiforova, SPbSUT, St. Petersburg, (RUS)
- 14. Prof. Konstantin Lomakin, SibSUTI, Novosibirsk, (RUSS)
- 14. Dipl.Ing. Birgit Graf, Hochschule für Telekomunikation, Leipzig, (D)
- 15. Dipl.-Ing. Undine. **Pielot**, Hochschule für Telekomunikation, Leipzig, (D)
- 16. Mr. Helmut **Reinke**, Hochschule für Telekomunikation, Leipzig, (D)
- 17. Mrs. Amaria **Khiter**, Telecom Lille, (F)

	ne i Quarter 2010			
	Name	Institute - Country	from	to
1.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	3.1.2010	12.1.2010
2.	Alexík Mikuláš, Prof. Ing. PhD.	EUROSIM Vienna University	16.1.2010	17.1.2010
3.	Marček Dušan, Prof. Ing. CSc.	HTW Drážďany (D)	27.1.2010	19.2.2010
4.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	10.2.2010	20.2.2010
5.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Brusel (B)	31.1.2010	4.2.2010
6.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	18.1.2010	30.1.2010
7.	Klimo Martin, Prof. Ing. PhD.	EU Commission (B)	9.2.2010	11.2.2010
8.	Bizoňová Zuzana , Ing. PhD.	Juridical Building (A)	2.2.2010	5.2.2010
9.	Palúch Peter, Ing. PhD.	Wyzsza Szkola Inform. (PL)	23.2.2010	27.2.2010
10.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	28.2.2010	13.3.2010
11.	Varša Peter, RNDr. PhD.	Organiz. ETUI (RO)	1.3.2010	6.3.2010
12.	Klimo Martin, Prof. Ing. PhD.	EU Commission (B)	10.3.2010	11.3.2010
13.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	21.3.2010	1.4.2010
14.	Bizoňová Zuzana Ing. PhD.	University di Messina (I)	21.3.2010	25.3.2010
15.	Alexík Mikuláš, Prof. Ing. PhD.	University of England (GB)	23.3.2010	28.3.2010
16.	Márton Peter, Ing. PhD.	Wien Zvbf (A)	30.3.2010	31.3.2010

Abroad stays of the Faculty staff and Doctoral Students: In the 1st Quarter 2010

In the 2nd Quarter 2010

	In the 2 Quarter 2010						
	Name	Institute - Country	from	to			
1.	Kováčiková Tatiana, Assoc.Prof. Ing.PhD.	ETSI Sofia Antipolis (F)	5.4.2010	15.4.2010			
2.	Baďura Štefan, Ing.	TU Vien (A)	7.4.2010	9.4.2010			
3.	Lieskovský Anton, Ing.	TU Vien (A)	7.4.2010	9.4.2010			
4.	Klimo Martin, prof. Ing. PhD.	EU Commission Valencia (E)	12.4.2010	15.4.2010			
5.	Bachratá Katarína, RNDr. PhD.	Oxford University (GB)	23.4.2010	26.4.2010			
6.	Peter Márton, Ing. PhD.	HTW Dresden (D)	25.4.2010	1.5.2010			
7.	Fabián Peter, Assoc.Prof. Ing. CSc.	MAICH Chania (GR)	26.4.2010	1.5.2010			
8.	Kováčiková Tatiana, Assoc.Prof. Ing.PhD.	ETSI Sofia Antipolis (F)	2.5.2010	13.5.2010			
9.	Levashenko Vitaly, Assoc.Prof. Ing. PhD.	University Informatics Minsk	2.5.2010	9.5.2010			
10.	Jánošiková Ľudmila, Assoc.Prof. Ing.PhD.	Wessex Institute (CY)	4.5.2010	9.5.2010			
11.	Janáček Jaroslav, Prof. RNDr. CSc.	Wessex Institute (CY)	4.5.2010	9.5.2010			
12.	Kapitulík Ján, Ing. PhD.	HTW Dresden (D)	4.5.2010	9.5.2010			
13.	Klimo Martin, Prof. Ing. PhD.	Unit E1 INFSO (B)	5.5.2010	6.5.2010			
14.	Zaitseva Elena, Assoc.Prof. Ing. PhD.	University of IT (PL)	12.5.2010	16.5.2010			
15.	Bizoňová Zuzana, Ing. PhD.	Kongres Kalimera Kriti (GR)	15.5.2010	23.5.2010			
16.	Kováčiková Tatiana, Assoc.Prof. Ing.PhD.	ETSI Sofia Antipolis (F)	16.5.2010	20.5.2010			
17.	Alexander Ferianc, Ing.	Polytechnica Poznan (PL)	19.5.2010	21.5.2010			
18.	Kováčiková Tatiana, Assoc.Prof. Ing.PhD.	ETSI Sofia Antipolis (F)	23.5.2010	7.6.2010			
19.	Varša Peter RNDr. PhD.	SIC Radovlica (SL)	29.5.2010	5.6.2010			
20.	Blaško Rudolf, RNDr. PhD.	Mykolas Romeris Uni. (LT)	31.5.2010	5.6.2010			
21.	Blašková Martina, Assoc.Prof. Ing. PhD.	Mykolas Romeris Uni. (LT)	31.5.2010	5.6.2010			
22.	Márton Peter, Ing. PhD.	ETH Zurich (CH)	14.6.2010	14.6.2010			
23.	Klimo Martin, Prof. Ing. PhD.	European Commission (B)	23.6.2010	24.6.2010			
24.	Tulejová Lucia, Ing.	University of and Astana	25.6.2010	2.7.2010			
25.	Ďurišová Mária, Ing. PhD.	University of and Astana	25.6.2010	2.7.2010			
26.	Stankovianksa Ida, RNDr. CSc.	University of and Astana	25.6.2010	2.7.2010			
27.	Buzna Ľuboš, Ing. PhD.	ETH Zurich (CH)	26.6.2010	30.6.2010			
28.	Kováčiková Tatiana, Assoc.Prof. Ing.PhD.	Q-Free ASA, Trondheim (N)	28.6.2010	1.7.2010			

In the 3rd Quarter 2010

	Name	Institute - Country	from	to
1	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	4.7.2010	14.7.2010
2.	Klimo Martin, prof. Ing. PhD.	EU Commision (B)	15.7.2010	16.7.2010
3.	Varša Peter, RNDr. PhD.	TU Lisboa (PT)	17.7.2010	24.7.2010
4.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	18.7.2010	2.8.2010
5.	Baďura Štefan, Ing.	SJB Institute of Technol.(IN)	2.8.2010	9.8.2010
6.	Marček Dušan, Prof. Ing. CSc.	Yantai University (CHINA)	7.8.2010	14.8.2010
7.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	14.8.2010	29.8.2010
8.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	5.9.2010	12.9.2010
9.	Janáček Jaroslav, Prof. RNDr. CSc.	Univerzita Molde (N)	10.9.2010	20.9.2010
10.	Koháni Michal, Ing. PhD.	Univerzita Molde (N)	10.9.2010	20.9.2010
11.	Zábovský Michal, Assoc.Prof. Ing. PhD.	JAMK Jyväskylä (FIN)	13.9.2010	17.9.2010
12.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	EuroTeleserv (LX)	15.9.2010	17.9.2010
13.	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	20.9.2010	28.9.2010
14.	Bizoňová Zuzana, Ing., PhD.	University Maribor (SL)	21.9.2010	25.9.2010
15.	Martón Peter Ing. PhD.	TU Berlin (D)	21.9.2010	24.9.2010
16.	Bizoňová Zuzana, Ing., PhD.	Catalonia Barcelona (E)	26.9.2010	30.9.2010
17.	Klimo Martin, Prof. Ing. PhD.	EU Commision (B)	26.9.2010	29.9.2010
18.	Zaitseva Elena Assoc.Prof. Ing. PhD.	Belarusian State University	26.9.2010	3.10.2010
19.	Fabián Peter Assoc.Prof. Ing. CSc.	IGP Lisboa (PT)	28.9.2010	3.10.2010

In the 4th Quarter 2010

	Name	Institute - Country	from	to
1	Kováčiková Tatiana Assoc.Prof. Ing. PhD.	BNetzS Mainz (D)	4.10.2010	8.10.2010
2	Hodoň Michal Ing.	University sv. Š. Godollo (H)	4.10.2010	6.10.2010
3	Karpiš Ondrej Ing. PhD.	University of Katowice (PL)	5.10.2010	8.10.2010
4	Kapitulík Ján Ing. PhD.	University of Katowice (PL)	5.10.2010	8.10.2010
5	Ševčík Peter Ing. PhD.	University of Katowice (PL)	5.10.2010	8.10.2010
6	Hittmár Štefan prof. Ing. PhD.	University of Wroclav (PL)	7.10.2010	8.10.2010
7	Baďura Štefan Ing.	University of Wroclav (PL)	17.1.2010	19.10.2010
8	Kováčiková Tatiana Assoc.Prof. Ing. PhD.	ATB Bremen, ETSI (F)	17.10.2010	23.10.2010
9	Blašková Martina Assoc.Prof. Ing. PhD.	Politechnika Czestochowa(PL)	22.10.2010	24.10.2010
10	Levashenko Vitaly Assoc.Prof. Ing. PhD.	Belarusian State University	24.10.2010	31.10.2010
11	Klilmo Martin Prof. Ing. PhD.	EU COMMISSION (B)	26.10.2010	26.10.2010
12	Kováčiková Tatiana Assoc.Prof. Ing. PhD.	ETSI Antipolis (F)	31.10.2010	9.11.2010
13	Kováčiková Tatiana Assoc.Prof. Ing. PhD.	ETSI Antipolis (F)	20.11.2010	4.12.2010
14	Dicová Jana Ing. PhD.	Silesian University (PL)	20.10.2010	23.10.2010
15	Blaško Rudolf RNDr. PhD.	Politechnika Czestochowa(PL)	22.10.2010	24.10.2010
16	Varša Peter RNDr. PhD.	ITC ILO Torino (I)	8.11.2010	13.11.2010
17	Zaitseva Elena Assoc.Prof. Ing. PhD.	UIPP,,BSU Minsk (Belarus)	15.11.2010	27.11.2010
18	Tarábek Peter Ing. PhD.	University of Wroclav (PL)	19.11.2010	22.11.2010
19	Šajna Marek Ing.	University of Wroclav (PL)	19.11.2010	22.11.2010
20	Fabián Peter Assoc.Prof. Ing. PhD	TU Berlin (D)	29.11.2010	4.12.2010
21	Klimo Martin Prof. Ing. PhD.	EU Comission (B)	2.12.2010	2.12.2010

Turnover of staff in 2010

Within the space of year 2010 the Faculty has accepted into pedagogical and scientific staff following members:

- 1. Ing.Ján Janech, PhD
- 2. Ing. Michal Bruncko, PhD.
- **3**. Ing. Andrej H o l ú b e k , PhD.

In the same period following members left the Faculty:

- 1. RNDr. Miroslav Iliaš, PhD.
- 2. Prof.Ing. Karel Šotek, PhD.
- 3. Ing. Štefan Bocko
- 4. Assoc.Prof.Ing. Juraj Slovák, PhD.
- 5. Assoc.Prof.Ing. Jozef Strišš, PhD.
- 6. Assoc.Prof.Ing. Jiří Slavík, PhD.
- 7. Prof.Ing. Mikuláš Alexík, PhD.
- 8. Prof.Ing. Petr C e n e k , PhD.
- 9. Ing. Mgr. Alžbeta K a n á l i k o v á , PhD.
- 10. Ing. Jana Jacková
- 11. RNDr. Mária Brezániová, PhD.

Human resource management

As far as the required qualification structure of the pedagogical staff at the FMSI is concerned, the situation seen within the University's context is shown in following table. It shows current number of employees at the Faculty and its development in according to categories within the period 2005-2009.

CATEGORY/YEAR	2006	2007	2008	2009	2010
Professors	10	9	11	10	9
Guest Professors	1	2	1	1	0
Assoc. Prof.	11	15	12	15	16
Senior Lecturers PhD.	27	35	45	58	56
Senior Lecturers	42	26	16	13	9
Assistants	2	1	1	0	0
Lectors	7	6	6	5	4
Research staff	13	9	9	6	8
Tech. Admin. Staff	49	49	52	47	44
Total	162	152	153	155	146

Programmes of Study:

Bachelors Degree Programme: INFORMATICS

1st year of study

Semester	Code COURSE		HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BF001	Algebra	2-2-0	6	DMM
	5BI037	Informatics 1	2-2-2	8	DI
	5BF015	Mathematics for Informatics	2-2-0	8	DMM
	5BL033	Introduction to studies	2-0-2	3	DIN
	5BE001	Basics of Economic Theory	2-2-0	5	DMME
1		OPTIONAL			
	5BF009	Practice of Mathematics	0-2-0	1	DMM
	5BL015	Foreign Language	0-2-0	3	FSc_DL
	5BL009	Physical Education	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BA026	Algorithmic Graphs Theory	2-2-0	6	DMM
	5BA024	Discrete Probability	2-2-1	6	DTN
	5BI038	Informatics 2	2-2-2	7	DI
2	5BN010	Communication Technologies	2-0-2	5	DIN
	5BE002	Microeconomics	2-2-0	6	DMME
		OPTIONAL			
	5BL016	Foreign Language	0-2-0	3	FSc_DL
	5BL010	Physical Education	0-0-2	1	IPE

Recommended number of credits in the 1st year of study: 60

2nd year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BI039	Informatics 3	2-1-2	5	DI
	5BH001	Logical Systems	2-0-2	6	DTC
	5BF017	Mathematical Analysis 1	2-2-1	6	DMM
	5BI025	Assemblers	2-0-2	5	DTN
3		OPTIONAL			
	5BE009	Economy of Enterprise	2-1-0	5	DMME
	5BI045	Graphics in Computers Applications	1-0-3	4	DIN
	5BI033	Spreadsheets	2-0-2	3	DI
	5BI035	Techniques of Programming 1	0-0-2	4	DI
	5BL017	Foreign Language	0-2-0	3	FSc_DL
	5BL011	Physical Education 3	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5UI024	Data Structures 1	2-0-2	6	DTN
	5BA022	Discrete Optimisation	2-0-2	6	DTN
	5BH018	Digital Computers	3-0-1	6	DTC
	5BI006	Basics of Database Systems	2-0-2	6	DI
4		OPTIONAL			
	5BE008	Macroeconomics	2-2-0	5	DMME
	5BE014	Small and Medium Entrepreneurship	2-2-0	6	DMME
	5BA008	Numerical Methods	2-0-2	3	DMM
	5BI044	Computers Graphic and Animation	1-0-3	4	DIN
	5BA030	Probability and Statistics	2-2-0	6	DTN
	5BL018	Foreign Language 4	0-2-0	3	FSc_DL
	5BL012	Physical Education 4	0-0-2	1	IPE

Recommended number of credits in the 2nd year of study: 120 3rd year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5UA013	Modelling and Simulation	2-0-2	6	DTN
	5BS001	Operational Systems	2-0-2	6	DI
	5US003	Software Engineering	2-0-4	6	DI
		OPTIONAL			
	5US005	GIS Application in the Management	2-0-2	6	DTN
	5BI031	Database System - Access	2-0-2	4	DI
	5BS005	Identification of Systems	2-0-2	6	DTC
	5UM023	Communication Management	2-2-0	5	DMT
	5BF019	Mathematical Analysis 3	2-1-1	6	DMM
5	5BH023	Microprocessors	2-0-2	6	DTC
-	5US007	Multimedia Information Systems	2-0-2	6	DTN
	5UA005	Petri Nets	2-0-2	6	DTN
	5BL003	Law 1	2-2-0	4	DMME
	5BL035	Sociology for Managers	1-2-0	4	DMNT
	5BH021	Technical Equipment of PC	0-0-2	3	DTC
	5BI029	Basics of Programming in WINDOWS	2-0-2	4	DST
	5UA03	Game Theory	2-2-0	6	DMM
	5BL013	Physical Education 5	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BZ001	Bachelors Project	0-0-8	12	G
	5BL040	English Language 1	0-0-0	3	FSc_DL
6		OPTIONAL			
	5IUE04	Taxes and Budget	2-1-0	5	DMME
	5BS012	Implementation of UNIX-LINUX	2-0-2	6	DMM
	5BS004	Information and Control Systems in Transport	2-0-1	3	DST
	5BI032	Compilers	2-0-2	6	DI
	5BS002	Management Information Systems	2-0-2	6	DMT
	5BA020	Modern Approximate Methods	2-0-2	4	DMM
	5UI014	Computers Graphics	2-0-2	6	DTN
	5BI022	Open Source Software	1-0-3	4	DMM
	5UI002	Reliability Theory	2-0-2	5	DI

	5BL004	Law 2	2-2-0	5	DMME
6	5BL06	Psychology	2-1-0	4	G
	5BL14	Physical Education 6	0-0-2	1	IPE

Compulsory Optional Courses

Groups of Compulsory Optional Courses include further themes from kernel of knowledge for study field Information Systems in the Master's Degree Programme. Student is to choose the groups of courses, which correspond to his future professional orientation (*Applied Informatics*, Distributed and Parallel Systems, Systems of Support for Decision-Making, Business Informatics, Information-Communication NetArticles). These groups of Compulsory optional course are connected with the Programmes of study in MSc. Degree level due to professional orientation. Minimum number of credits to conclude the Bachelors Programme of study: **180**

Applied Informatics

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department	
	COMPULSORY OPTIONAL					
Autumn	5US009	Internet and Intranet Application Development	2-0-2	4	DI	
		COMPULSORY OPTIONAL				
Spring	5BI41	JAVA – Language and Development Applications	2-0-2	6	DI	
	5BA006	Modelling and Optimisation	2-0-2	6	DTN	
	5BI046	Software Modelling	2-0-2	6	DI	

Systems for Support of Decision-Making,

Business Informatics

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department		
	COMPULSORY OPTIONAL						
Autumn	5BE07	Finance of Enterprise	2-0-2	6	DMME		
		COMPULSORY OPTIONAL					
Spring	5BA06	Modelling and Optimisation	2-0-2	6	DTN		
	5BI046	Software Modelling	2-0-2	6	DI		

Information-Communication NetArticles

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY OPTIONAL			
Autumn	5BN003	Computer NetArticles 1	2-0-4	6	DIN
Autuinii	5BN011	Computer NetArticles 3	2-0-2	6	DIN
		COMPULSORY OPTIONAL			
Spring	5US004	Analysis of Processes	2-0-2	6	DIN
Spring	5BN004	Computer NetArticles 2	2-0-4	6	DIN

Optional Courses

Following courses are recommended for the students intending to study in Masters Degree Programme

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		OPTIONAL			
Autumn	5BF019	Mathematical Analysis 3	2-2-1	6	DMM
		COMPULSORY OPTIONAL			
Spring	5BA030	Probability and Statistics	2-2-0	6	DTN

Bachelors Degree Programme: COMPUTER ENGINEERING

1 st year					
Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BF001	Algebra	2-2-0	6	DMM
	5BI037	Informatics 1	2-2-2	8	DI
	5BF017	Mathematical Analysis 1	2-2-1	6	DMM
	5BE001	Basics of Economic Theory	2-2-0	6	DMME
	5BF005	Basics of Physics	3-1-1	6	FEE
1		OPTIONAL			
	5BF009	Practice of Mathematics	0-2-0	1	DMM
	5BL015	Foreign Language 1	0-2-0	3	FSc-DL
	5BL009	Physical Education	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BF004	Electrical Circuits	2-2-0	5	DTC
	5BI038	Informatics 2	2-2-2	7	DI
	5BN010	Communication Technologies	2-0-2	5	DIN
2	5BF014	Mathematical Analysis 2	2-2-1	6	DMM
	5BH008	Theory of Automatic Control 1	2-1-1	6	DTC
		OPTIONAL			
	5BL016	Foreign Language 2	0-2-0	3	FSc-DL
	5BL010	Physical Education 2	0-0-2	1	IPE

Recommended number of credits in the 1st year of study: 60

2 nd year					
Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BF007	Electronics	2-0-2	6	DTC
	5BI039	Informatics 3	2-1-2	5	DST
	5BH001	Logical Systems	2-0-2	6	DTC
3		COMPULSORY OPTIONAL			
	5BF019	Mathematical Analysis 3	2-2-1	6	DMM
	5BN003	Computer NetArticles 1	2-0-4	6	DIN
	5BH009	Theory of Automatic Control 2	2-0-3	6	DTC
	5BS011	UNIX – Development Environment	1-0-3	4	DMM
		OPTIONAL			
	5BI045	Graphics in Computers Applications	1-0-3	4	DIN
	5BI025	Assemblers	2-0-2	5	DTN
	5BL017	Foreign Language 3	0-2-0	3	FSc-DL
	5BL011	Physical Education 3	0-0-2	1	IPE

From the group of Compulsory optional courses student has to choose min one course

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department				
		COMPULSORY							
	5BA024	Discrete Probability	2-2-1	6	DTN				
	5BH002	Measurements	2-0-2	6	DTC				
	5BL032	Legal and Ethic Aspects of Information Technologies	2-0-0	3	DMT				
	5BH018		3-0-1	6	DTC				
	5BH004		2-0-2	6	DTC				
4		COMPULSORY OPTIONAL			•				
	5BN004	Computer NetArticles 2	2-0-4	6	DIN				
	5BH022	Elements of Automatic Systems	2-0-2	6	DTC				
	5BI006	Basics of Database Systems	2-0-2	6	DI				
		OPTIONAL							
		Complex Variable and Integral							
	5BF010	Transformation	2-1-1	4	DMM				
	5BA008	Numerical Methods	2-0-2	3	DMM				
	5BI044	Computers Graphic and Animation	1-0-3	4	DIN				
	5UE004	Basics of Electronic Business	2-0-2	6	DIN				
	5BL018	Foreign Language 4	0-2-0	3	FSc-DL				
	5BL012	Physical Education 4	0-0-2	1	IPE				

3rd year

<u>Semester</u>	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BH005	Electronic Systems	2-0-2	6	DTC
		Construction and Technology of Electronic			
	5BH019	System Production	1-0-3	4	DTC
	5BS001	Operational Systems	2-0-2	6	DI
5		COMPULSORY OPTIONAL			
	5BH013	Microcomputers and their Applications	1-0-3	6	DTC
	5BH023	Microprocessors	2-0-2	6	DTC
	5BI029	Basic Programming in Windows	2-0-2	4	DST
	OPTIONAL				
	5BI007	Algorithms and Computational Complexity	2-0-0	3	DI
	5BI031	Database Systems – MS Access	2-0-2	4	DI
	5BS005	Identification of Systems	2-0-2	6	DTC
	5UM023		2-2-0	5	DMT
	5US007	Multimedia Information Systems	2-0-2	6	DTN
	5UA005	Petri Nets	2-0-2	6	DTN
	5BN011	Computers NetArticles 3	2-0-2	6	DIN
	5BL003	Law 1	2-2-0	4	DMME
	5BL035	Sociology for Managers	1-2-0	4	DMT
	5BH021	Technical Equipments of PC	0-0-2	3	DTC
	5US009	Internet and Intranet Application Development	2-0-2	4	DST
	5BL013	Physical Education 5	0-0-2	1	IPE

From the group of Compulsory optional courses student has to choose min one course

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BH0020	Computer Engineering	2-0-4	6	DTC
	5BZ001	Bachelors Project	0-0-8	12	G
	5BL040	English Language	0-0-0	3	FSc-DL
		COMPULSORY OPTIONAL			
6		JAVA – Language and Development			
U	5BI010	Applications	2-0-2	6	DI
	5BH014	Computer Process Control	2-0-3	7	DTC
		OPTIONAL			
	5BS012	Implementation of UNIX - LINUX	2-0-2	6	DMM
	5BS004	Information and Control Systems in Transport	2-0-1	3	DST
	5BI032	Compilers	2-0-2	6	DI
	5BE014	Small and Medium Entrepreneurships	2-2-0	6	DMT
	5BL004	Law 2	2-2-0	5	DMME
	5BL006	Psychology	2-1-0	4	G
	5BA010	Scheduling Theory	2-2-0	6	DMM
	5UI002	Reliability Theory	2-0-2	5	DI
	5BL014	Physical Education 6	0-0-2	1	IPE

From the group of Compulsory optional courses student has to choose min one course

Minimum number of credits to conclude the Bachelors Programme of study: 180

Abbreviations: DMM	- Department of Mathematical Methods
DI	- Department of Informatics
DTC	- Department of Technical Cybernetics
DIN	- Department of Information NetArticles
DTN	- Department of Transportation NetArticles
DMT	- Department of Management Theories
DMME	- Department of Macro and Microeconomics
DST	- Department of Software Technology
G	- Guarantee for Programme of Study
FEE	- Faculty of Electrical Engineering
FSc-DL	- Faculty of Science – Department of Languages
IPE	- Institute of Physical Education

Bachelors Degree Programme: MANAGEMENT

1st year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BF001	Algebra	2-2-0	6	DMM
	5BI047	Informatics for Management 1	2-1-1	6	DI
	5BF017	Mathematical Analysis 1	2-2-1	6	DMM
	5BL03	Law 1	2-2-0	6	DMME
	5BE001	Basics of Economic Theory	2-2-0	6	DMME
1		OPTIONAL			
	5BF009	Practice of Mathematics	0-2-0	1	DMM
	5BL015	Foreign Language 1	0-2-0	3	FSc-DL
	5BL009	Physical Education	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BI040	Informatics for Management 2	2-1-1	6	DI
	5BE014	Small and Medium Entrepreneurship	2-2-0	6	DMT
	5BM010	Management	2-2-0	6	DMT
2	5BE002	Microeconomics	2-2-0	6	DMME
	5BE016	Business Economy	3-2-0	6	DMT
	OPTIONAL				
	5BL016	Foreign Language 2	0-2-0	3	FSc-DL
	5BL010	Physical Education 2	0-0-2	1	IPE

Recommended number of credits in the 1st year of study: 60

2nd year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
	COMPULSORY				
	5BA015	Economical Statistics	2-1-1	6	DTN
	5BE005	Financial Accounting	2-2-0	6	DMME
	5BS013	Information Systems of Enterprise	2-0-2	6	DMT
	5UM011	Project Management	2-1-1	6	DMT
3	OPTIONAL				
	5BI045	Graphics in Computers Applications	1-0-3	4	DIN
	5BI033	Spreadsheets	2-0-2	3	DI
	5BL17	Foreign Language 3	0-2-0	3	FSc-DL
	5BL11	Physical Education 3	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BE018	Marketing	2-2-0	6	DMT
	5BM016	Operational Management	3-1-0	6	DMT
	5BM014	Human Resource Management	2-2-0	6	DMT
4	OPTIONAL				
	5BA008	Numerical Methods	2-0-2	3	DMM
	5BI044	Computers Graphic and Animation	1-0-3	4	DIN
	5BI046	Software Modelling	2-0-2	6	DST
	5BL018 Foreign Language 4		0-2-0	3	FSc-DL
	5BL012	Physical Education 4	0-0-2	1	IPE

Recommended number of credits in the 2^{nd} year of study: 120

3rd year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BM013	Quality Management	2-2-0	6	DST
	5BE007	Finance of Enterprise	2-2-0	6	DMME
	OPTIONAL				
	5US005	GIS Application in the Management	2-0-2	6	DTN
5	5BI031	Database Systems – MS Access	2-0-2	4	DI
	5BS007	Multimedia Information Systems	2-0-2	6	DTN
	5BH021	Technical Equipments of PC	0-0-2	3	DTC
	5UA003	Game Theory	2-2-0	6	DST
	5BL013	Physical Education 5	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5BZ001	Bachelors Project	0-0-8	12	G
	5BL002	Foreign Language 1	0-0-0	3	FSc-DL
6	OPTIONAL				
Ū	5BS004	Information and Control Systems in Transport	2-0-1	3	DST
	5II014	Computers Graphics	2-0-2	6	DTN
	5BL014	Physical Education 6	0-0-2	1	IPE

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
	COMPULSORY OPTIONAL				
	5UE013	Controlling	2-1-0	4	DMME
Autumn	5BM015	Supply Management	2-1-0	4	DMT
Autunni	5BA013	Modelling and Simulation	2-0-2	6	DTN
	5BL035	Sociology	1-2-0	4	G

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY OPTIONAL			
	5UE022	Taxes and Budget	2-0-1	5	DMME
	5BL036	Business Ethics	2-1-0	4	DMT
	5BE020	Financial Analysis	2-1-1	4	DMME
	5BM018	Quality in Services	2-1-0	4	DM
S	5BE008	Macroeconomics	2-2-0	5	DMME
Spring	5BM006	Marketing Communication	2-1-0	4	DMT
	5BF014	Mathematical Analysis 2	2-2-1	6	DMM
	5BL038	Politology	2-2-0	4	DMT
	5BL004	Law 2	2-2-0	5	DMME
	5BL006	Psychology	1-2-0	4	G

Minimum number of credits to conclude the Bachelors Programme of study: 180

Abbreviations: DMM DI DTC DIN DTN DMT DMT DMME DST G FEE FSc-DL	 Department of Mathematical Methods Department of Informatics Department of Technical Cybernetics Department of Information NetArticles Department of Transportation NetArticles Department of Management Theories Department of Macro and Microeconomics Department of Software Technology Guarantee for Programme of Study Faculty of Electrical Engineering Faculty of Science – Department of Languages
FSc-DL IPE	Faculty of Science – Department of LanguagesInstitute of Physical Education

www.fri.uniza.sk link: Study - Bachelors study

Masters Degree Programme: INFORMATION SYSTEMS

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Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department		
		COMPULSORY					
	5IN017	Architecture of NetArticles	2-0-2	5	DIN		
1	5II015	Data Structures 2	2-0-2	5	DTN		
	5II007	Database Systems 2	2-0-2	5	DI		
	5IN009	Optimisation of NetArticles	2-0-2	5	DTN		
	COMPULSORY						
		(due to Professional Orientation)					
	5IP001	Project 1	0-2-4	6	G		

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5IS008	Architectures of Information systems	2-0-2	5	DIN
2	5II008	Discrete Simulation	2-0-2	5	DTN
	5IA002	Theory of Information	2-0-2	5	DMM
		COMPULSORY			
		(due to Professional Orientation)			
	5IP002	Project 2	0-2-4	6	G

Recommended number of credits in the 1st year of study: 60

2nd year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
3	5II017	Cryptography and Safety	2-0-2	5	DMM
3	5IP005	Internship	0-0-0	0	G
		COMPULSORY (due to Professional Orientation			
	5IP003	Project 3	0-2-4	6	G

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
4	5IZ001	Diploma Thesis	0-0-20	30	G
	5IL004	English Language 2	0-0-0	3	DL

Minimum number of credits to conclude the form of study: 120

Groups of Compulsory Optional courses from the kernel of the Programme of Study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY OPTIONAL			
Autumn	5II001	Fuzzy Sets and Neural NetArticles	2-0-2	5	DTN
	5IE001	Theory of Enterprise	2-2-0	5	DMME

Systems of Support for Decision-Making

Semester		COMPULSORY OPTIONAL			
	5US005	GIS Application in the Management	2-0-2	5	DTN
Spring	5IN008	Communication Systems	2-0-2	5	DTN
	5IA006	Mathematical Programming	2-0-2	5	DTN

Applied Informatics

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester		COMPULSORY OPTIONAL			
A 4	5II013	Advanced Object Technologies	2-0-2	5	DTS
Autumn	5IE001	Theory of Enterprise	2-0-2	5	DMME

Semester		COMPULSORY OPTIONAL						
	5II028	Database Languages	2-0-2	5	DI			
Spring	5II012	Data Mining	2-0-2	5	DI			
	5IS006	Geographic Information Systems	2-0-2	5	DTN			

Information Communication NetArticles

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester		COMPULSORY OPTIONAL			
A 4	5IN007	Signal Transmissions	2-0-2	5	G-FEE
Autumn	5IP007	Design of NetArticles	2-0-2	5	G-FEE

Semester		COMPULSORY OPTIONAL			
Spring	5IN003	Integration of NetArticles	2-0-2	5	DIN
	5IN010	Theory of NetArticles	2-0-2	5	DIN

Business Informatics

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY OPTIONAL			
A 4	5IE017	Econometrics	2-0-2	5	DMME
Autumn	5IE015	Finance	2-2-0	5	DMME
	5II001	Fuzzy Sets and Neural NetArticles	2-0-2	5	DTN

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester		COMPULSORY OPTIONAL			
	5IE010	Accounting and Analysis	3-2-0	5	DMME
Spring	511024	Artificial Neural NetArticles and Soft Computing	2-0-2	5	DMME

Distributed and Parallel Systems

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department				
		COMPULSORY OPTIONAL							
	5IS007	Distributed Systems	2-0-2	5	DTC				
Autumn	5IS011	HPC and Grid computing	2-0-2	5	DTC				
Autuiiii	5IS013	Parallel Developing Standards Open MP and MPI	2-0-2	5	DTC				

Semester		COMPULSORY OPTIONAL							
	5IA006	Mathematical Programming	2-0-2	5	DTN				
Spring	511026	Complexity of Distributed and Parallel Algorithms	2-0-2	5	DTC				

Groups of Optional courses

Systems of Support for Decision-Making

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department				
		OPTIONAL							
	5IS007	Distributed Systems	2-0-2	5	DTC				
Autumn	5IS009	Expert Systems	2-0-2	6	DTN				
	5IN005	Architecture of NetArticles	2-0-2	5	DIN				

Semester		OPTIONAL			
	5US04	Analysis of Processes	2-0-2	5	DIN
	5II028	Database Languages	2-0-2	5	DI
Spring	5IE012	Prognostics	2-0-2	6	DMME
	5IS002	Real Time Systems Programming	2-0-2	5	DI
	5UI002	Reliability Theory	2-0-2	5	DI

Applied Informatics

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester		OPTIONAL			
	5IS009	Expert Systems	2-0-2	6	DTN
Autumn	5IS011	HPC and Grid computing	2-0-2	5	DTC
	5IN005	Architecture of NetArticles	2-0-2	5	DIN

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester		OPTIONAL			
	5US004	Analysis of Processes	2-0-2	5	DIN
Spring	5IM014	Quality Management – Access and TQM Methods	2-1-0	5	DMT
	5IE012	Prognostics	2-0-2	6	DMME
	5IS010	Real Time Systems Programming	2-0-2	5	DI
	5UI002	Reliability Theory	2-0-2	5	DI

Information Communication NetArticles

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department			
Semester		OPTIONAL						
	5IS009	Expert Systems	2-0-2	6	DTN			
Autumn	5IS011	HPC and Grid computing	2-0-2	5	DTC			
	5IS013	Parallel Developing Standards Open MP and MPI	2-0-2	5	DTC			

Semester		OPTIONAL								
	5IS006	Geographical Information Systems	2-0-2	5	DTN					
	5IE012	Prognostics	2-0-2	6	DMME					
Spring	5IS002	Real Time Systems Programming	2-0-2	5	DI					
	5UI002	Reliability Theory	2-0-2	5	DI					

Business Informatics

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department			
Semester		OPTIONAL						
	5IE005	Management Accounting	2-2-0	6	DMME			
A 4	5II013	Advanced Object Oriented Technologies	2-0-2	5	DI			
Autumn	5IN005	Architecture of NetArticles	2-0-2	5	DIN			
	5II023	Artificial Intelligence	2-0-2	5	DTN			

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester		OPTIONAL			
Spring	5II003	Database Languages	2-0-2	5	DI
	5IE012	Prognostics	2-0-2	6	DMME

Distributed and Parallel Systems

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
A		OPTIONAL			
Autumn	5IS009	Expert Systems	2-0-2	6	DTN
	5IN005	Architecture of NetArticles	2-0-2	5	DIN

Semester		OPTIONAL								
	5US004	Analysis of Processes	2-0-2	5	DIN					
	5IS006	Geographical Information Systems	2-0-2	5	DTN					
Spring	5IM014	Quality Management – Access and TQM Methods	2-1-0	5	DMT					
	5IE012	Prognostics	2-0-2	6	DMME					
	5IS010	Real Time Systems Programming	2-0-2	5	DI					
	5UI002	Reliability Theory	2-0-2	5	DI					

Minimum number of credits to conclude the form of study: 120

Masters Degree Programme: COMPUTER ENGINEERING

1st year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5IP0P1	Project 1	0-2-4	6	G
1	5IH009	Digital Signal Processing 1	2-0-2	5	DTC
1	5IH013	Technical Means of Control and Information Systems	2-0-2	5	DTCE
	5IH011	Introduction to the Theory of Discrete Systems	2-2-0	6	DMT

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department				
	COMPULSORY								
	5IH002	Design of the Customer Integrated Circuits	2-0-2	5	DTC				
2	5IH006	Digital Data Transmission	2-0-2	5	DTC				
	5IP0P2	Project 2	0-2-4	6	G				

Recommended number of credits in the 1st year of study: 60

2nd year of study

			HOURS PER	ECTS	
Semester	Code	COURSE	WEEK		Department
		COMPULSORY			
	5IN005	NetArticles Architecture	2-0-2	5	DIN
3	5IP005	Internship	0-0-0	6	DMT
	5IP0P3	Project 3	0-2-4	6	G

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
4	5IZ001	Diploma Thesis	0-0-20	30	G
	5IL004	English Language 2	0-0-0	3	DL

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY OPTIONAL			
	5IH007	Adaptive Systems of Automatic Control	2-0-2	5	DTC
	5IS007	Distributed Systems	2-0-2	5	DTCT
Autumn	5II017	Cryptography and Safety	2-0-2	5	DMM
Autuinii	5II013	Advanced Object Oriented Technologies	2-0-2	5	DI
	5II021	Basics of Programming in the Kernel of an Operational System	2-0-2	5	DI

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY OPTIONAL			
	5II012	Data Mining	2-0-2	5	DI
Spring	5IH008	Digital Signal Processing 2	2-0-2	5	DTC
	5IA002	Theory of Information	2-2-0	5	DMM

From the group of Compulsory Optional Courses student must choose courses to fulfil minimum number of credits **15** Minimum number of credits to conclude the form of study: **120**

Masters Degree Programme: MANAGEMENT

1 st year of study									
Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department				
		COMPULSORY							
	5IE017	Econometrics	2-0-2	5	DMT				
1	5IE005	Management Accounting	2-2-0	6	DMME				
	5IM021	Marketing Control	2-2-0	6	DMT				
	5US003	Software Engineering	2-0-4	6	DI				
	5PM1	Project 1	0-2-4	6	G				

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department				
		COMPULSORY							
	5IM026	International Management and Marketing	2-2-0	6	DMT				
2	5IM022	Systems for Support of Decision-Making	2-0-2	6	DMT				
	5IP0M2	Project 2	0-2-4	6	G				

Recommended number of credits in the 1st year of study: 60

2 nd yea	r of stud	y			
Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5IM027	Logistics	3-1-0	6	DMT
	5IM017	Organizational Behaviour	2-2-0	6	DMT
3	5IP009	Design of Management Systems	0-4-1	6	DMT
5	5IM009	Strategic Management	2-0-2	6	DMT
	5IP005	Internship	0-0-0	0	G
	5IP0M3	Project 3	0-2-4	6	G

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
		COMPULSORY			
	5IZ001	Diploma Thesis	0-0-20	30	G
4	5IL006	Foreign Language 2	0-0-0	3	DL
		OPTIONAL			
	5IM018	Process Management	2-2-0	4	DST

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department				
		COMPULSORY OPTIONAL							
	5UM023	Managerial Communication	2-2-0	5	DMT				
Autumn	5IM011	Management Games and Simulations	1-0-2	5	DMT				
	5IM025	Marketing Tools and Applications	2-0-2	5	DMT				

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department	
		COMPULSORY OPTIONAL				
	5IM014	Complex Quality Management- TQM Methods	2-1-0	5	DMT	
Spring	5IM016	Marketing Research	2-1-0	3	DMT	
	5IM024	Marketing of Services	2-2-0	5	DMT	
	5IE012	Prognostic	2-2-0	6	DMME	

From the group of Compulsory Optional Courses student must choose courses to fulfil minimum number of credits 15

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
	OPTIONAL				
Autumn	5IS009	Expert Systems	2-0-2	4	DTN
	5IE015	Finance	2-2-0	5	DMME
	5US009	Internet and Intranet Application Development	2-0-2	4	DST
Semester	OPTIONAL				
Spring	5IS008	Architecture of Information Systems	2-0-2	5	DIN
	5IS006	Geographical Information Systems	2-0-2	5	DTN
	5IE006	Capital and Investment Theories	2-2-0	6	DMME
	5UE004	Basics of Electronic Business	2-0-2	5	DIN

Minimum number of credits to conclude the form of study: 120

Students with excellent results:

Student Name	Thesis Title	Supervisor	
Jana Púchyová	Computer controlled laser pointing system	Peter Gubiš	
Marek Kvet	Monitoring system for On Board Unit	Emil Kršák	
Ľubomír Toman	Exact method for solving evacuation problem as a part of tool for decision support in case of emergency	Jaroslav Janáček	
Pavol Burdiak	Configurable test system for manufacturing tests of specified class of products	Peter Gubiš	
Štefan T o t h	Recognition and localization of traffic signs	Emil Kršák	
Anna Závodská	Marketing strategy of product's introduction to the market	Jakub Soviar	
Katarína Matiščíková	Generate driven book – module for generating of rides in road network	Štefan Kovalík	

Excellent Masters Thesis:

Excellent Bachelors Thesis:

Student Name	Thesis Title	Supervisor
Miroslav K v a š a y	N-body problem - methods and Open- Source software.	Michal Kaukič
Lucia Klimčíková	Assignment of projects to students	Stanislav Palúch
Maroš B á l i n t	Effectively Comparison of Shortest Path Algorithms in Huge Graphs	Stanislav Palúch
Samuel Brezáni	Current state of company CRM system analysis and new system design	Karol Grondžák
Michal Mruškovič	Implementation of the RIP Routing Protocol	Peter Palúch

Junior Chamber International – SLOVAKIA has awarded degree

Student Personality of SLOVAKIA in the academic year 2009 / 2010

1st place in the category ECONOMICS

for the PhD.-student of the Faculty of Management Science and Informatics, University of Žilina

Ing. Lucia Murínová

Student participation at the Professional Competitions:

NAG 2010 National Round – competition focused on configuration and control of small netArticles taking place on Slovak Technology University in Bratislava on March 4th, 2010

2nd place: Jakub H r o m a d í k

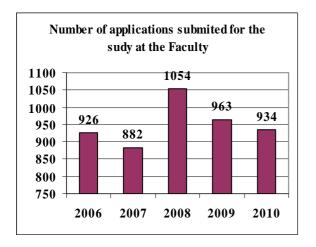
5th place: Michal H r u š k o v i č

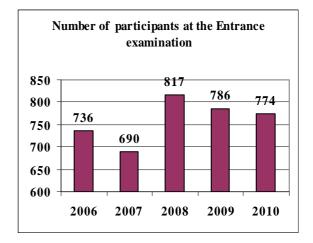
Students:

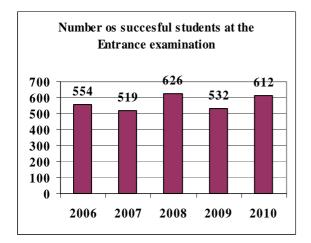
In November 2010, there were **872** students for Bachelors degree programme, **363** students for Masters Degree programme and **33** doctoral full-time and **34** doctoral part-time students at the Faculty.

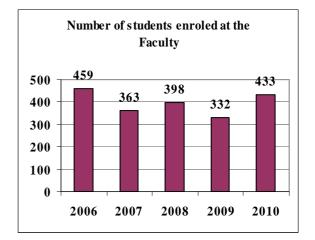
An overview of the candidates for the study, students and graduates at the Faculty in the last five years is illustrated in following graphs:

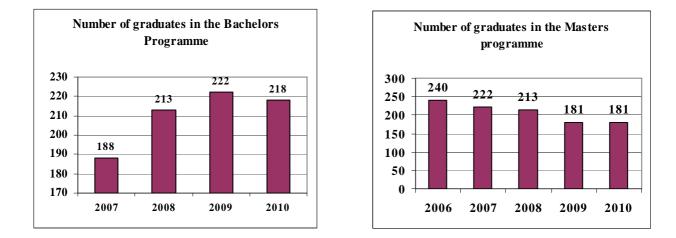
In June 2010 participated upon the Entrance exams **774** candidates for the study at the Faculty. From this number **612** were successful and **433** students were enrolled. They started in September 2010 their Programmes of study at the Faulty











The survey of graduates from the last years is on the following graphs:

Programme ERASMUS and other international activities of the Faculty

There are following bilateral agreements signed in 2010 for the exchange of students and pedagogical staffs in the frame of the programme ERASMUS with the following institutes and schools:

- Technische Universität Dresden, (D)
- Technische Universität Braunschweig, (D)
- Hochschule für Telekommunikation Leipzig (D)
- Hochschule für Technik und Wirtschaft, Dresden, (D)
- Telecom SudParis, Evry, (F)
- Telecom and Management SudParis, Evry, (F)
- Université de Poitiers, (F)
- University of Science and Technology, Telecom Lille, (F)
- Utrecht University (NL)
- Linköping University, (S)
- University of Vaasa, (FIN)
- JAMK University of Applied Sciences Jyväskylä, School of Information Technology, (FIN)
- Seinäjoki University of Applied Sciences, (FIN)
- University College of Molde, (N)
- Universidad Politechnica de Valencia, Facultat d'Informatica, (E)
- Universidad Politechnica de Valencia, Escuela Technica Superior de Telecomunicacion, (E)
- University of Porto (P)
- Mikolas Romeris University, Vilnius (LT)
- Széchenyi István University, Györ, (H)
- Technical University of Sofia, (BG)
- College of Telecommunications and Posts, Sofia, (BG)
- University of Pardubice (CZ)
- College of Computer Science and Business Administration, Lomža (PL)
- Technical University, Radom (PL)
- Kielce University of Technology (PL)

In the academic year **2010** followed the programme of study at the partner's universities and Institutions in the frame of the programmes ERASMUS **32** students from the Faculty

Foreigner Students at the Faculty in 2010

In the year 2010 took part on the study stay at the Faculty **one** student from FRANCE, **2** students from BULGARIA, **4** from PORTUGAL, **one** student from LATVIA and **one** student from CHROATIA.

In the frame of Student Training Agreement with Telecom SudParis Evry, FRANCE, **one** student took part on two months internship at the Faculty.

Information Centre

At the Faculty of Management Science and Informatics was created **Information Centre**, which provides service for the study and acquiring of information. Centre is furnished with professional literature and with few efficient computers connected on the Internet.

Information Centre provides:

- counselling service for students in composition of Programmes of study
- coordination of students mobility and counselling service about possibility of study on the other universities abroad
- presentation and propagation of the Faculty in its various activities
- library service and coordination of editorial activity
- registration of in tray and out tray (letters, journals, package of books and parcels, ...

Intranet of the Faculty

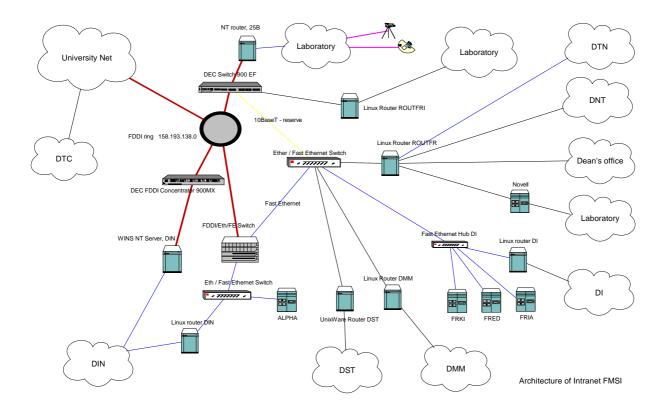
It was in 1992 when the Intranet of Faculty was created and in the meantime was continuously improving. It came into existence from the needs to process and to make accessible lot of information to students and to pedagogical staff, as well. The intranet of Faculty is a part of University Intranet, which allows access to SANET (Slovak Academic Network).

Conception of Intranet Faculty is based on the fact, that every Department is in possession of the own network, which is connected through ETERNET (10BaseT, 100BaseT or Gigabit Ethernet) to the faculty network. Apart from there are a special segments of this network - research laboratories for multimedia, parallel distributed systems, clusters, database systems, operating systems, e-business, e-learning etc.

There are following information systems at the Intranet of FMSI in service:

- Information about study at the Faculty,
- News, messages,
- Events,
- Economics,
- Personal data, research data and information
- E-learning and distant learning subsystems,
- Study results and
- Assessments

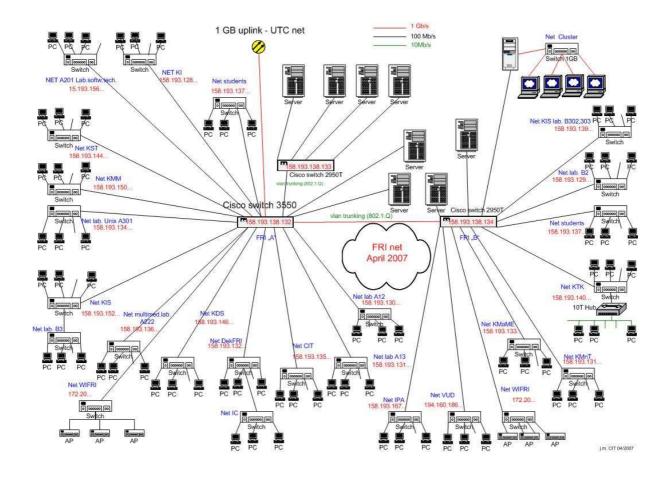
Architecture of INTRANET:



Abbreviations of Departments:

Department of Mathematical Methods	-	DMM
Department of Informatics	-	DI
Department of Macro and Micro economy	-	DMME
Department of Technical Cybernetics	-	DTC
Department of Info Communication NetArticles	-	DIN
Department of Transportation NetArticles	-	DTN
Department of Management Theories	-	DMT
Department of Software Technologies	-	DST

Schema of the Faculty Computers network and its connection to the University Network is on the following picture:



Department of Mathematical Methods

Head of Departmen	nt: Assoc.Prof. RNDr. Stanisla	w Palúch, PhD.		
		Tel.: +421-41-513 4250 e-mail: stanislav.paluch@fri.uniza.sk		
Teaching Staff:	RNDr. Rudolf Blaško, PhD. Mgr. Peter Czimmermann, PhD. Mgr. Lýdia Gábrišová, PhD. Mgr. Michal Kaukič, PhD. RNDr. Alžbeta Klaudinyová RNDr. Aleš Kozubík, PhD. Ing. Tomáš Majer Mgr. Eduard Omasta Assoc.Prof. RNDr. Stanislav Pa Assoc.Prof. RNDr. Štefan Peško RNDr. Július Rebo, PhD. RNDr. Ida Stankovianska, PhD.	lúch, PhD.), PhD.		
	Ing. Tomáš Ladovský Ing. Michal Murín			
Administrative De	Administrative Department: Bc. Ľubica Michálková Tel.:+421-41-513 4251			

PhD.-Programme

Theme	Student	Supervisor
1. Optimum Route Problems in Large Transportation Networks	T. Majer	S. Palúch
2. Timetable Optimization in Position – Time Scheduling	M. Murín	Š. Peško
3. Uniform Scheduling in Case of Uncertainty	T. Ladovský	Š. Peško

EQUIPMENT

Computer Laboratory of UNIX, Cryptography, Computer Security and Open Source Software Solutions.



COOPERATION

V.1 Cooperation with Institutes and Enterprises in Slovakia

- 1. Institute of Transportation Research Žilina
- 2. University of Economics, Bratislava
- 3. Technical University of Košice
- 4. Jesenius Faculty of Medicine, Comenius University, Martin
- 5. Faculty of Mathematics and Physics, Comenius University, Bratislava

Cooperation with Foreign Institutes and Enterprises

- 1. University of Economics Prague, CZ
- 2. University of Pardubice, CZ
- 3. University of Economics, Prague, CZ, Faculty of Management, Jindřichuv Hradec
- 4. Mykolas Romeris University, Vilnius, Lithuania, Faculty of Public Administration
- 5. Czestochowa University of Technology, PL, Faculty of Management

Foreign Visitors to the Department

Prof. RNDr. Jan Černý, Dr.Sc., Dr.Hc., Faculty of Management, Jindřichuv Hradec, CZ Assoc. Prof. Ing. Anna Černá, PhD., Faculty of Management, Jindřichuv Hradec, CZ

Membership in Slovak Organizations and Societies

- KAUKIČ, M.: Society for Open Source Information Technologies
- KAUKIČ, M.: Association of Slovak Mathematics and Physicists
- MAJER, T.: Slovak Society for Operation Research
- PEŠKO, Š.: Association of Slovak Mathematics and Physicists
- PEŠKO, Š.: Society for Open Source Information Technologies
- PEŠKO, Š.: Slovak Society for Operation Research
- PALÚCH, S.: Slovak Society for Operation Research
- PALÚCH, S.: Slovak Information Society
- REBO, J.: Association of Slovak Mathematics and Physicists
- REBO, J.: Slovak Society for Operation Research
- KOZUBÍK, A. : Slovak Society of Actuaries
- KOZUBÍK, A. : Slovak Statistic and Demographic Society

BACHELORS THESIS

No.	Theme	Student	Supervisor
1.	Assignment of projects to students	L. Klimčíková	S. Palúch
2.	Optimum Edge Service in a Transportation Network	J. Hedvigy	S. Palúch
3.	Effectively Comparison of Shortest Path Algorithms in Huge Graphs	M. Bálint	S. Palúch
4.	Project Planning Problem	T. Antal	S. Palúch
5.	Software for communication with GPS module and GPS data visualization.	D. Ščensný	M. Kaukič
6.	Strategy Computer Game	J. Kňažko	M. Kaukič
7.	N-body problem - methods and Open-Source software.	M. Kvaššay	M. Kaukič
8.	Action RPG Game.	I. Bílek	M. Kaukič
9.	Discrete simulation using Python SimPy module.	M. Kompan	M. Kaukič
10.	Eigenvalues of local complements of strongly regular graphs.	M. Vereš	P. Czimmermann
11.	Colouring of certain classes of graphs with Nešetřil algorithm.	J. Kubačka	P. Czimmermann

OTHER ACTIVITIES

Mr. Palúch S.:

- Member of Scientific Board of Faculty of Management Science and Informatics
- Member of Scientific Board of Faculty of Management, Jindřichuv Hradec, University of Economics, Prague
- Member of Editorial Staff "Tatramountains" (Mathematical Journal)
- Member of Editorial Staff "Horizonty dopravy" (Journal of Transportation)
- Member of Editorial Staff "Studies of the University of Žilina, Mathematical Series"

Mr. Blaško, R.:

• Member of Editorial Staff "Studies of the University of Žilina, Mathematical Series"

Mr. Kaukič and Mr. Peško, R.:

• Founder members of the Society for Open Source Information Technologies (Slovakia)

Department of Informatics

Head of Department: Assoc. Prof. Ing. Penka Martincová, PhD.

Tel.:+421-41-513 41 50 Fax: +421-41-513 40 55 e-mail: penka.martincova@fri.uniza.sk

Administrative Department: Anna Ilovská

Teaching Staff:

RNDr. Miroslav Benedikovič
Ing. Zuzana Bizoňová, PhD.
Ing. Miroslav Faktor
Ing. Matúš Chochlík, PhD.
Ing. Karol Grondžák, PhD.
Ing. Miroslav Iliáš, PhD.
Ing. Josef Kopecký
RNDr. Štefan Kovalík, PhD.
Assoc.Prof. Ing. Vitaly Levašenko, PhD.
Prof. Ing. Karol Matiaško, PhD.
Ing. Iveta Nedeljaková, PhD
Ing. Monika Václavková
RNDr. Peter Varša, PhD.
Assoc.Prof. Ing. Michal Zábovský, PhD.
Ing. Ján Boháčik, PhD.

Researchers: Assoc. Prof. Ing. Elena Zaitseva, PhD.

Doctoral full-time students:

Ing. Eva Valentíková Ing. Jan Janech Ing. Tomáš Bača Ing. Anton Lieskovský Ing. Michal Ulbricht Ing. Marek Šajna Ing. Ľuboš Takáč Ing. Miroslav Rusín

Doctoral part-time students:

Ing. Stanislav Piecka Ing. Monika Vajsová Ing. Marek Tavač

EQUIPMENT

Laboratories:

Server	Purpose
frdb1	Linux – teaching
frdb2	Linux – databases, teaching
fra208d	Linux - databases, teaching
frios	Linux – operating systems, teaching
fra203a	WIN2000 server
e-learning	Linux – e-learning applications
elearn	Linux – e-learning applications



ERROR: ioerror OFFENDING COMMAND: image

STACK: