

***FACULTY OF MANAGEMENT SCIENCE
AND INFORMATICS***

ANNUAL REPORT 2011

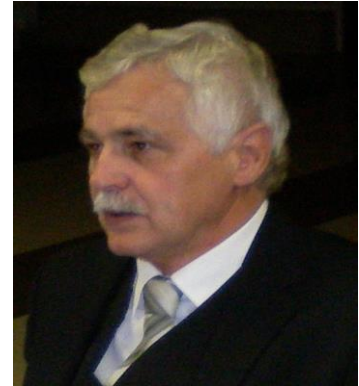
UNIVERSITY OF ŽILINA



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FACULTY OF MANAGEMENT SCIENCE AND INFORMATICS



Foreword

The Faculty of Management Science and Informatics, established in 1990, is one of seven Faculties of the University of Žilina.

The Faculty of Management Science and Informatics comprises around 120 academics and research fellows who form human resources in Computer Science and Management Science. Its complement of people directly involved in education is close to 100. The Faculty educates students on the base of its science and research activities.

Faculty of Management Science and Informatics offers the study in all three levels programmes of study (**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 research and 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 scientific-pedagogical 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 well-deserved 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 **M a t i a š k o**, PhD.
Tel.: +421-41-513 40 51
Fax: + 421-41-565 40 55
e-mail: dekan@fri.uniza.sk

Vice-Deans: RNDr. Ida **S t a n k o v i a n s k á**, PhD.
Vice-Dean for Education
Tel.: +421-41- 513 40 72
e-mail: ida.stankovianska@fri.uniza.sk

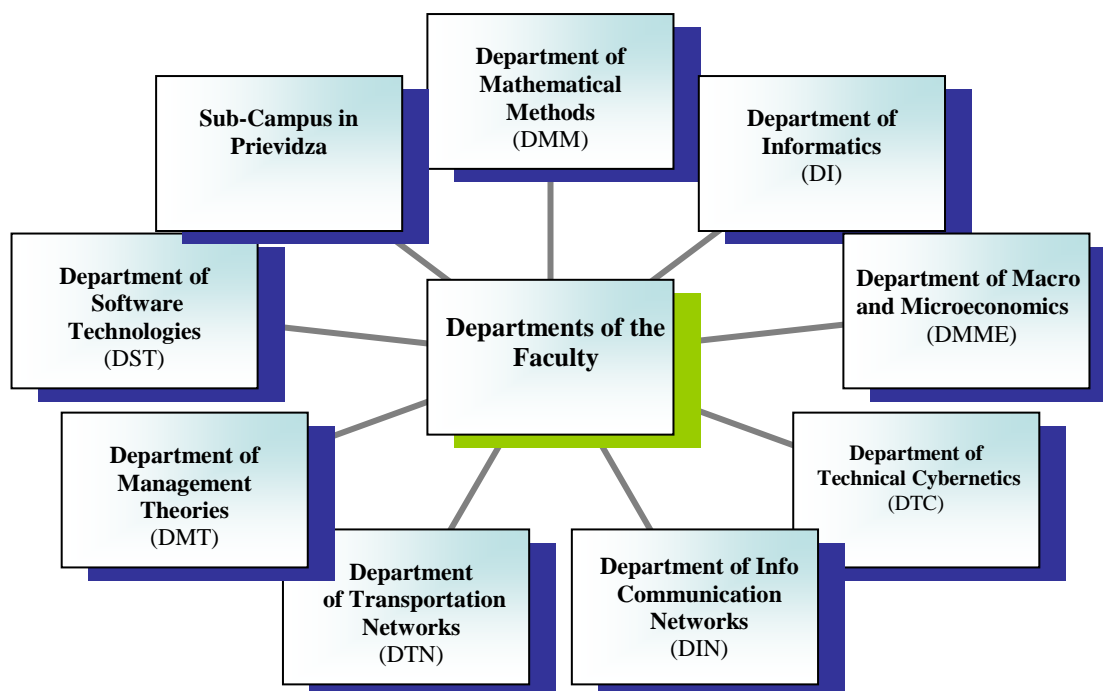
Prof. Ing. Matilda **D r o z d o v á**, PhD.
Vice-Dean for Science
Tel.: +421-41- 513 40 71
e-mail matilda.drozdova@fri.uniza.sk

Assoc.Prof. Ing. Michal **Z á b o v s k ý**, PhD.
Vice-Dean for International Affairs
Tel.: +421-41-513 40 53
e-mail: michal.zabovsky@fri.uniza.sk

Faculty Registrar: Ing. Beata **H o l k o v á**, PhD.
Tel.: +421-41-513 40 75
e-mail: beata.holkova@fri.uniza.sk

Departments of the Faculty:

The Faculty of management Science and Informatics involves 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*
- *Informatics Tools for Decision Support Systems*
- *Network engineering*
- *Management*

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

- **Data Processing**
- **Decision Support Systems**
- **Information-Communication Networks**
- **Business Informatics**
- **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*
- *Informatics Tools for Decision Support Systems*
- *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:

Projects supported by European Union Funds:

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. STF LoE 331/05 *Technologies Interoperability and Standardization*
Assoc.Prof.Ing. Tatiana **Kováčiková**, PhD.
3. ECP-2007-GEO_317007 *NATURE-SDIplus*
Assoc.prof.Ing. Peter **Fabián**, PhD.
4. 2008-2458/001-001 MUN-MUNATT *EMA-4-MOODLE*
Assoc.prof.Ing. Peter **Fabián**, PhD.
5. 265610 7.FP *VEL-Wagon*
Assoc.prof.Ing. Peter **Fabián**, PhD., Ing. Peter **Márton**, PhD.
6. 265841 7.FP *MARKET UP*
Assoc.prof.Ing. Peter **Fabián**, PhD.

Centres of Excellence

1. 26220120028 *Centres of Excellence for Systems and Services of Intelligent Traffic IDS1*
Faculty is a University Coordinator
Leader of project: Prof.Ing. Karol **Matiaško**, PhD.
2. 26220120050 *Centres of Excellence for Systems and Services of Intelligent Traffic IDS2*
Faculty is a University Coordinator
Leader of project: Prof.Ing. Karol **Matiaško**, PhD.

3. 26220220022 *Design of New Diagnostic Algorithm in Selected Tumour Illnesses*
Faculty is a Partner of Comenius University, Medical Faculty, Bratislava
4. 26220220021 *Centre of Translation Medicine*
Faculty is a Partner of Comenius University, Medical Faculty, Bratislava
5. 26220120007 *CaKS – Centre of Excellence in Informatics Sciences and Knowledge Systems*
Faculty is a Partner of University “Pavol Jozef Šafarik” Košice and
University “Matej Bell” Banská Bystrica

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

1. 1/1116/11 *Adaptive Data Distribution in Mobile Ad-hoc Networks*
Prof.Ing. Karol **Matiaško**, PhD.
2. 1/0361/10 *Optimal Design of Public Operating Systems in Undetermined Conditions*
Prof.Ing. Jaroslav **Janáček**, PhD.
3. 1/0667/10 *Soft Technique in Modelling and Prediction of Economical and Financial Time Ranges,*
Ing. Lucia **Pančíková**, PhD.
4. 1/0598/10 *Using of Visualization Techniques by Investigation of Wide-Ranging Databases*
Assoc.Prof.Ing. Michal **Zábovský**, PhD
5. 1/0374/11 *Modelling and Mobility Optimization abd Infrastructure in Logistic Networks*
Assoc.Prof.RNDr. Stanislav **Palúch**, PhD.
6. 1/0888/11 *Knowledge Management – Models and Applications*
Prof.Ing. Štefan **Hittmár**, PhD.
7. 1/0495/08 *Dynamic and Decision-Making Content of Processes in Human Potential Motivation*
Assoc.Prof.Ing. Martina **Blašková**, PhD.
8. 1/1099/11 *Modelling and Simulation of Dynamic Interaction in environment driver/automobile/traffic situation*
Prof.Ing. Mikuláš **Alexík**, PhD.
9. 1/1099/11 *Cooperation Management – Effective Approach for Profit of Competitive Advantage*
Assoc.prof.Ing. Jozef **Strišš**, 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 **M a t i a š k o**, 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 **Klím**, PhD.
Prof.Ing. Milan **Kolesár** PhD.
Assoc.Prof.Ing. Tatiana **Kováčiková**, PhD.
Assoc.Prof.Ing. Emil **Kršák**, PhD.
Assoc.Prof.Ing.. Penka **Martincová**, PhD.
Assoc.Prof. Ing. Juraj **Miček**, PhD.
Assoc. Prof. Ing. Vladimír **Mlynarovič**, PhD.
Assoc. Prof. RNDr. Stanislav **Palúch**, PhD.
Prof. Ing. Ladislav **Šimák**, PhD.
Prof. Ing. Karel **Šotek**, PhD.
Prof.Dr.Ing. Róbert **Štefko**, PhD.
Prof.Ing. Liberios **Vokorokos**, PhD.
Prof.Ing. Peter **Závodný**, PhD.

In the procedure to be appointed as a **Professor** in 2011 was successful

Assoc.Prof. Ing. Juraj **Miček**, PhD.

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

1. Ing. Karol **Grondžák**, PhD.
2. Ing. Ján **Genči**, PhD.
3. Ing. Mária **Ďurišová**, 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. Mgr. Katarína **Pilátová**
2. Ing. Miloslav **Holúbek**.
3. Ing. Mgr. Zdenka Sidónia **Natšínová**
4. Ing. Michal **Varmus**
5. Ing. Dana **Stredáková**
6. Ing. Radka **Majerová**
7. Ing. Monika **Kormancová**
8. Ing. Eva **Valentíková**
9. Ing. Ján **Bábel**
10. Ing. Ladislav **Zjavka**
11. Ing. Martin **Kardoš**
12. Mgr. Jakub **Daubner**
13. Ing. Michal **Bruncko**

Publication Activities:

Members of the Faculty of Management Science and Informatics have published in the year 2011 results of research activity in 211 publications. Some of the more significant titles there are in the following list.

Scientific Monographs in Foreign Publishers

KUCHARČÍKOVÁ, A., TOKARČÍKOVÁ, E., ĎURIŠOVÁ, M., JACKOVÁ, A.,
KOZUBÍKOVÁ, Z., VODÁK, J.: *Effective Production: Make use of Production Factors and be
Ready for the Changes on the Market*
1st Edition, Brno, Computer Press, 23011, pp. 344, ISBN 978-80-251-2524-3

VODÁK, J., KUCHARČÍKOVÁ, A: *Effective Education of Employees*
Prague: Grada 2011, pp. 237, ISBN 978-80-247-3651-8

Scientific Monographs in Inland Publishers

HITTMÁR, Š., VESELÝ, J.: *Personal Management or Activities from the Point of View Former Director*

1st Edition, Žilina, University of Žilina 2011, pp. 106, ISBN 978-80-554-0336

Chapters in Scientific Monographs in Foreign Publishers

LEVASHENKO, V., ZAITSEVA, E.: *Safety of critical infrastructures: mathematical and engineering methods of analysis and ensuring*

In: Charkov: Nacional'nyj aerokosmičeskij universitet im. N.E.Žukovskogo „ChAI“, 2011. - ISBN 978-966-662-228-3. - pp. 229-282

Inland University Textbooks

MÁRTON, P., ADAMKO, N.: *Practical Introduction of Modelling and Simulation*

1st Edition, Žilina, University of Žilina 2011, pp. 264, ISBN 978-80-554-0387-8

MIKUŠ, Ľ., FRNČO, V., PILÁTOVÁ, K., SZENDREYOVÁ, A., ŠKVAREK, O.: *Effective Work with Computer: Preparation for the Tests ECDL*

1st Edition, Žilina, University of Žilina 2011, pp. 254, ISBN 978-80-554-0312-0

Scientific Works in Foreign Prestigious Journals

MARČEK, M., PETRUCHA, J., MARČEK, D.: *Statistical and NN forecasting models of financial data: making inferences about the accuracy and risk evaluation*

In: Journal of multiple-valued logic and soft computing. - ISSN 1542-3980. - Vol. 17, No. 4 Sp. iss. (2011), pp. 321-337

RIKO, J., MÁRTON, P., MAUE, J., NUNKESSER, M.: *Multistage methods for freight train classification*

In: Networks: International Journal. - ISSN 0028-3045. - Vol. 57, Iss. 1 Sp. iss. (2011), pp. 87-105

Scientific Works in Domestic Prestigious Journals

MARČEK, D., FRAŇO, M., MARČEK, M.: *Managerial decision-making: measuring and manifestations of risks and the possibilities of their reducing*

In: Journal of economics. - ISSN 0013-3035. -Vol. 59, No. 4 (2011), pp. 392-411

Scientific Works in Foreign Journals

MIČEK, J., JURÍČEK, J.: *Design of multimode shaper of control signals and proper choice of sampling frequency*

In: Canadian Journal on Automation, Control & Intelligent Systems. - ISSN 1923-1709. - Vol. 2, No. 3 (2011), pp. 46-50.

MIČEK, J., KAPITULÍK, J.: *An analysis of transmit power of communication terminals in a mobile vehicular environment*

In: Journal of Communication and Computer. - ISSN 1548-7709. - Vol. 8, No. 5 (2011), pp. 397-403

MIČEK, J., KAPITULÍK, J.: *Communication Platform of the Road Intelligent Transport System*

In: Perner's Contacts - ISSN 1801-674X. - 2011. -Vol. 6., No. 1. (2011), pp. 204 - 214.

MATIS, P., KOHANI, M.: *Very large street routing problem with mixed transportation mode*

In: CEJOR. Central European Journal of Operations Research. - ISSN 1435-246X. - Vol. 19, iss. 3 (September 2011), pp. 359-369

ONDRUŠ J., DICOVÁ, J.: *Transport intentions as tool of globalization trend development*

In: Logi : scientific journal on transport and logistics. - ISSN 1804-3216. - Vol. 2, No. 1 (2011), pp. 48-54

ONDRUŠ J., DICOVÁ, J.: *Cost model of the urban toll system in Žilina*

In: Archives of transport system telematics. - ISSN 1899-8208. - Vol. 4, iss. 3 (September 2011), pp. 18-23.

KUCHARČÍKOVÁ, A.: *The human capital as the production factor*

In: Scientific papers of the University of Pardubice : Faculty of economics and administration. - ISSN 1211-555X. - Vol. 16, No. 19 (1/2011), pp. 125-133

MURÍNOVÁ, L.: *The working time arrangement and the enterprise competitiveness*

In: Economics - Management – Innovation, Olomouc. (CZ) - ISSN 1804-1299. -Vol. 3, (2011), pp. 30-38

MURÍNOVÁ, L., ŠINOVSKÝ, J.: *Human reliability control - cognitive approach*

In: Economics and Management - ISSN 1802-3975. - Č. 2 (2011), pp. 18-23

GRODŽÁK, K., MARTINCOVÁ, P., ŠUCH, O.: *Accelerating vector calculations on GPU*

In: Scientific papers of the University of Pardubice : Faculty of economics and administration. ISSN 1211-555X. - Vol. 16, No. 19 (1/2011), pp. 52-61.

NEMČEK, D.: *Analytical model of QOS mechanism - Priority Queuing using Markov's chains*

In: AD ALTA : Journal of interdisciplinary research. - ISSN 1804-7890. - Vol. 1, Iss. 1 (2011), pp. 113-114.

RUSIN, M., LEVASHENKO, V., ZAITSEVA, E.: *Development of health care system in Slovakia*

In: Vrač i informacionnyje tehnologii : naučno-praktičeskij žurnal. - ISSN 1811-0193. - No. 3 (2011), pp. 68-76.

ZAITSEVA, E., KARAS, S.L.: *Analysis of medical informational system's reliability: specificity and main directions of development*

In: Vrač i informacionnyje tehnologii : naučno-praktičeskij žurnal. - ISSN 1811-0193. - No. 3 (2011), pp. 22-31

JANKAL, R., JANKALOVÁ, M.: *Mystery shopping - the tool of employee communication skills evaluation*

In: Verslas: teorija ir praktika = Business: theory and practice. - ISSN 1648-0627. - Vol. 12, No. 1 (2011), pp. 45-49

GRONDŽAK, K., KORTIS, P.: *Dynamic load balancing of the PIN code generation parallel algorithm*

In: International journal on information technologies and security. - ISSN 1313-8251. - Year 3, No. 1 (2011), pp. 71-78

LENDEL, V., VARMUS, M.: *Creation and implementation of the innovation strategy in the enterprise*

In: Economist & Management = Ekonomika ir vadyba – ISSN 1822-6515, No 16 (2011), pp.819-825

MUŽÍKOVÁ, K.: *Game-theoretic framework within the process of subcontractors' network organization*

In: Logi : scientific journal on transport and logistics. - ISSN 1804-3216. - Vol. 2, No. 2 (2011), pp. 70-80.

Scientific Works in Inland Journals

LADOVSKY, T.: *Uncertain uniform schedules and their characteristics with regard to the choice of irregularity measure*

In: Journal of Information, Control and Management Systems. - ISSN 1336-1716. - Vol. 9, No. 1 (2011), pp. 31-40

VODÁK, J.: *We cannot unfold the future, we can only create it actively*

In: Economical-Managerial Spectrum: Scientific Journal of the Faculty of Operation and Economic in Transport and Communication, University of Žilina - ISSN 1337-0839. – Vol.. 5, No. 1 (2011), pp. 63-70.

JACKOVÁ, A.: *Importance of Human Resource Management in Company*

In: Economical-Managerial Spectrum Scientific Journal of the Faculty of Operation and Economic in Transport and Communication, University of Žilina - ISSN 1337-0839. -Vol. 5, No. 1 (2011), pp. 22-27.

CHODASOVÁ, Z., JACKOVÁ, A.: *Influence of Financial Crisis to Management of Development Organizations in Slovakia*

In: Real Estates and Dwelling: Internet Journal - ISSN 1336-944X. - 2011. -Vol. 6, No. 1(2011), pp. 67-77.

KOZUBÍK, A.: *Frequency Modelling of Traffic Accidents in Group of Drivers*

In: Crisis Management - ISSN 1336-0019. -Vol. 10, No. 1 (2011), pp. 12-16.

ONDRUŠ, J., DICOVÁ, J.: *Basic Design Elements of Systems in Urban Toll*

In: Transport and Communications, Internet Journal- ISSN 1336-7676. - 2011. - No. 1 (2011), pp. 97-103

LEVASHENKO, V., KARAS, S., RUSIN, M., SIZOV, E.: *Some Methods for Development of Analytical Module in Telemedicine System for a Child Monitoring*
In: Communications: scientific letters of the University of Žilina. - ISSN 1335-4205. - Vol. 13, No. 1 (2011), pp. 27-31.

GABRIŠOVÁ, L.: *Fuzzy Approach to the Capacitated Facility Location Problem*
In: Acta Electrotechnica et Informatica. - ISSN 1335-8243. - Vol. 11, No. 1 (2011), pp. 54-61.

BLAŠKOVÁ, M., BLAŠKO, R.: *Decision Taking in Motivating Employees*
In: HRM&E : human resources management and ergonomics. - ISSN 1337-0871. - Vol. 5, no. 1 (2011), pp. 19-32

KRÁL, J.: *Framework for Managing Change in Organizations*
In: HRM&E: Human resources management and ergonomics. - ISSN 1337-0871. - Vol. 5, no. 1 (2011), pp. 65-77

Scientific Works in Inland Reviewed Proceedings

JANKAL, R., GUŽINIÁKOVÁ, A., JURČÍKOVÁ, S.: *Corporate Social Responsibility from the view of Customers*
In: Young Scientists Revue: University of Žilina, 2011. - ISBN 978-80-554-0400-4. - pp. 99-102.

LENDEL, V., VARMUS, M.: *Definition of lateral marketing position in marketing management*
In: Theory of management 3 : the selected problems for the development support of management knowledge base : scientific papers. - Žilina: University of Žilina, 2011. - ISBN 978-80-554-0419-6. - pp. 117-124.

LENDEL, V., VARMUS, M.: *Identification of the main links between management and implementation of innovative strategy*
In: Theory of management 4 : the selected problems for the development support of management knowledge base : scientific papers. - Žilina: University of Žilina, 2011. - ISBN 978-80-554-0420-2. - pp. 94-99

Contributions in Prestigious Foreign Scientific Conferences

MAJER, N., WIESER, V., BRÍDA, P., URAM M.: *Modulation adaptation according to radio channel pulse response*
In: 2011 IEEE GCC conference and exhibition: Grand Hyatt hotel, Dubai, United Arab Emirates, Feb. 19-22,2011. - [S.l.]: IEEE, 2011. - ISBN 978-1-61284-117-5. – pp. 97-99.

ZAITSEVA, E., LEVASHENKO, V., RUSIN, M.: *Reliability analysis of healthcare system*
In: Proceedings of federated conference on computer science and information systems : September 18-21,2011, Szczecin, Poland. - Los Alamitos: IEEE Computer Society Press, 2011. – ISBN 978-83-60810-39-2. - pp. 169–175.

Academic Senate:

Chairman: Assoc.Prof.Ing. Karol **Grondžák**, PhD.

Senate Registrar: Ing. Michal **Žarnay**, PhD.

Chamber of Employees:

Ing. Norbert **Adamko**, PhD.
RNDr. Hynek **Bachratý**, PhD.
Assoc.Prof. Ing. Martina **Blašková**, PhD.
Ing. Juraj **Dubovec**, PhD.
Mgr. Lýdia **Gábrišová**, PhD.
Assoc.Prof.Ing. Karol **Grondžák**, PhD.
Ing. Jozef **Juriček**, PhD.
RNDr. Štefan **Kovalík**, PhD.
Assoc.Prof. Ing. Emil **Kršák**, PhD.
Assoc.Prof. Ing. Alžbeta **Kucharčíková**, PhD.
Ing. Peter **Márton**, PhD.
Ing. Peter **Palúch**, PhD.
Ing. Peter **Ševčík**, PhD.
Ing. Michal **Žarnay**, PhD.

Chamber of Students:

Eduard **Baraniak**
Daniela **Skovajsová**
Jakub **Kordiak**
Juraj **Kubica**
Lukáš **Lehota**
Ing. Marek **Šajna**
Jaroslav **Verníček**

Official guests from foreign institutions accepted by Deans Office in 2011:

1. Prof. Jouko **Kotkansalo**, JAMK University of Applied Sciences, Jyväskylä, (FIN)
2. Assoc.Prof.Ing. Tarja **Lappalainen-Kajan**, University of Applied Sciences, Jyväskylä
3. Assoc.Prof. Johan **Open**, Molde University College, (N)
4. Dipl.Ing. Birgit **Graf**, Hochschule für Telekommunikation, Leipzig, (D)
5. Prof. Klaus **Baderscheider**, Hochschule für Telekommunikation, Leipzig, (D)
6. Prof. Vasileos **Drakopoulos**, Hellenic Open University, Patras, (GR)
7. Prof. Wojciech **Korneta**, College of Computer Science and BA, Lomża, (PL)
7. Dr. inż. Ryszard **Szcebiot**, College of Computer Science and BA, Lomża, (PL)
8. Prof. Elina **Zakirovna**, Ural State University of Economics, (RUS)
9. Prof. DrSc. Vyacheslav **Kharchenko**, National Aerospace University, Kharkiv, (UE)
10. Prof. Edit **Lukacs**, Universitatea "Dunarea de Jos" din Galati, (R)
11. Prof.Dr. Hartmut **Fritsche**, HTW Dresden, (D)

Abroad stays of the Faculty staff and Doctoral Students:

	<i>Name</i>	<i>Institute - Country</i>	<i>from</i>	<i>to</i>
1	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	2.1.2011	11.1.2011
2	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	Spazio della Politica, (B)	12.1.2011	14.1.2011
3	Matiaško Karol, Prof.Ing. PhD.	HfT Leipzig, (D)	26.1.2011	28.1.2011
4	Klimo Martin, Prof. Ing. PhD.	HfT Leipzig, (D)	26.1.2011	28.1.2011
5	Zábovský Michal, Assoc.Prof. Ing. PhD.	HfT Leipzig, (D)	26.1.2011	28.1.2011
6	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	29.1.2011	7.2.2011
7	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	Telecom Italia, (F)	8.2.2011	11.2.2011
8	Márton Peter, Ing. PhD.	Universita di Roma, EC (I)	15.2.2011	19.2.2011
9	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	EC INFOSOC Brussels (B)	27.2.2011	3.3.2011
10	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	EC INFOSOC Brussels (B)	6.3.2011	12.3.2011
11	Varša Peter RNDr. PhD.	Federation CFDT, Paris (F)	13.2.2011	25.2.2011
12	Zábovský Michal, Assoc.Prof. Ing. PhD.	TU Riga (LI)	17.2.2011	20.2.2011
13	Koháni Michal Ing. PhD.	TU Riga (LI)	17.2.2011	20.2.2011
14	Foltán Stanislav, Ing.	TSN Kiev, (UA)	20.2.2011	25.2.2011
15	Martincová Penka, Assoc.Prof. Ing. PhD	CBiT Hanover (D)	1.3.2011	5.3.2011
16	Hrkút Patrik Ing. PhD.	CBiT Hanover (D)	1.3.2011	5.3.2011
17	Kršák Emil, Assoc.Prof. Ing. PhD.	CBiT Hanover (D)	1.3.2011	5.3.2011
18	Janech Ján Ing. PhD.	CBiT Hanover (D)	1.3.2011	5.3.2011
19	Klimo Martin, Prof. Ing. PhD.	EU Commision (B)	9.3.2011	10.3.2011
20	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	EC INFOSOC Brussels (B)	20.3.2011	23.3.2011
21	Fabián Peter Assoc.Prof. Ing. CSc.	URSIT Sofia (BG)	15.3.2011	20.3.2011
22	Klimo Martin, Prof. Ing. PhD.	Opatija Education Centre(HR)	22.3.2011	26.3.2011
23	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	27.3.2011	5.4.2011
24	Márton Peter, Ing. PhD.	VEL-WAGON Berlin (D)	30.3.2011	1.4.2011
25	Alexík Mikuláš Prof. Ing. PhD.	Cambridge University (GB)	29.3.2011	1.4.2011

In the 1st Quarter 2011

In the 2nd Quarter 2011

	<i>Name</i>	<i>Institute - Country</i>	<i>from</i>	<i>to</i>
1	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	9.4.2011	18.4.2011
2	Matiaško Karol, Prof.Ing. PhD.	KTZ Astana, Kazachstan	10.4.2011	13.4.2011
3	Fabián Peter Assoc.Prof. Ing. PhD.	Telecom Brest (F)	26.4.2011	30.4.2011
4	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	DG INFOSOC1, Brussels (B)	3.5.2011	5.5.2011
5	Bachratá Katarína, Assoc.Prof.RNDr. PhD	Oxford University (GB)	5.5.2011	9.5.2011
6	Bachratý Hynek, RNDr., PhD.	Oxford University (GB)	5.5.2011	9.5.2011
7	Marton Peter Ing. PhD.	Fair Transport Logistic (D)	9.5.2011	11.5.2011
8	Klimo Martin, Prof. Ing. PhD.	EC Brussels	11.5.2011	12.5.2011
9	Klimo Martin, Prof. Ing. PhD.	EXPO Budapest (H)	19.5.2011	20.5.2011
10	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	DG INFOSOC1, Brussels (B)	22.5.2011	24.5.2011
11	Marton Peter Ing. PhD.	HTW Dresden (D)	22.5.2011	28.5.2011
12	Matiaško Karol, Prof.Ing. PhD.	INTERTRAFFIC 2011 (TR)	24.5.2011	28.5.2011
13	Zábovský Michal, Assoc.Prof. Ing. PhD.	INTERTRAFFIC 2011 (TR)	24.5.2011	28.5.2011
14	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	Stockholm University (S)	31.5.2011	2.6.2011
15	Zábovský Michal, Assoc.Prof. Ing. PhD.	Linköping University (S)	31.5.2011	5.6.2011
16	Kováčiková Tatiana, Assoc.Prof. Ing. PhD.	ETSI Sofia Antipolis (F)	4.6.2011	11.6.2011

No.	Name	Institute	Country	From	To
17.	Námár Štefan, Prof. Ing. PhD.	Instytut Informatyki (P)	Poland	3.6.2011	14.6.2011
18.	Kabán Peter, Assoc. Prof. Ing. PhD.	ISIRIA Varese (I)	Italy	2.10.2011	9.10.2011
19.	Puchyová Jana, Ing.	ITST Sofia (B)	Bulgaria	3.10.2011	7.10.2011
20.	Márton Peter Ing. PhD.	VDY Frankfurt (D)	Germany	4.10.2011	7.10.2011
21.	Kováčková Tatiana, Assoc. Prof. Ing. PhD.	EC Brussels (B)	Belgium	9.10.2011	14.10.2011
22.	Matašková Karol, Prof. Ing. PhD.	HBT Wien (A)	Austria	10.10.2011	14.10.2011
6.	Zábovský Michal, Assoc. Prof. Ing. PhD.	HfT Leipzig, (D)	Germany	10.10.2011	12.10.2011
7.	Klimo Martin, Prof. Ing. PhD.	EC Brussels (B)	Belgium	12.10.2011	12.10.2011
8.	Zábovský Michal, Assoc. Prof. Ing. PhD.	Linköping University (S)	Sweden	16.10.2011	19.10.2011
9.	Klímě Martin, Prof. Ing. PhD.	EC Brussels (B)	Belgium	27.10.2011	28.10.2011
10.	Kováčková Tatiana, Assoc. Prof. Ing. PhD.	EC Brussels (B)	Belgium	7.10.2011	11.10.2011
11.	Zábovský Michal, Assoc. Prof. Ing. PhD.	State College (P)	Poland	21.10.2011	2.11.2011
12.	Hodoň Michal, Ing. PhD.	Polytech Beijing (C)	China	4.11.2011	19.11.2011
13.	Matašková Karol, Prof. Ing. PhD.	TAC Berlin (P)	Poland	30.11.2011	2.12.2011
14.	Zábovský Michal, Assoc. Prof. Ing. PhD.	TAC Berlin (P)	Poland	15.11.2011	18.11.2011
15.	Blašková Martina, Assoc. Prof. Ing. PhD.	IPH, SLSCP Antipolis (F)	France	2.12.2011	4.12.2011
16.	Laváčková Mária, Assoc. Prof. Ing. PhD.	SEAT HZurich (C)	Switzerland	27.11.2011	5.12.2011
8.	Buzna Ľuboš, Assoc. Prof. Ing. PhD.	and Radiology (C)	China	19.8.2011	4.9.2011
9.	Koháni Michal Ing. PhD.	ETH Zurich (CH)	Switzerland	19.8.2011	4.9.2011
10.	Bača Tomáš Ing.	ITST St. Petersburg (RUS)	Russia	22.8.2011	27.8.2011
11.	Janech Ján Ing. PhD.	ITST St. Petersburg (RUS)	Russia	22.8.2011	27.8.2011
12.	Kvet Marek, Ing.	Cadiz University (E)	Spain	11.8.2011	18.9.2011
13.	Blašková Martina, Assoc. Prof. Ing. PhD.	Vilnius University (LT)	Lithuania	29.8.2011	31.8.2011
14.	Zaitseva Elena, Assoc. Prof. Ing. PhD.	UT Troyes (F)	France	17.8.2011	23.9.2011
15.	Hodoň Michal Ing.	TU Munich (D)	Germany	26.9.2011	30.9.2011
16.	Márton Peter Ing. PhD.	TU Berlin (D)	Germany	27.8.2011	29.9.2011
17.	Peter Goga Ing.	HTW Dresden (D)	Germany	26.9.2011	2.10.2011

In the 3rd Quarter 2011

In the 4th Quarter 2011

Turnover of staff in 2011

Within the space of year 2011 the Faculty has accepted into pedagogical and scientific staff following members:

1. Dr. Ivan **Cimrák**
2. Ing. Michal **Varmus**, PhD.
3. Ing. Andrej **Holúbek**, PhD.
4. Ing. Eva **Valentíková**, PhD.

In the same period following members left the Faculty:

1. Assoc. Prof. Ing. Vladimír **Jamrich**, PhD.
2. Ing. Michal **Bruncko**, PhD.
3. Prof. Ing. Dušan **Marček**, PhD.

Human resource management

As far as the required qualification structure of the pedagogical staff at the Faculty 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 2007-2011.

CATEGORY/YEAR	2007	2008	2009	2010	2011
Professors	9	11	10	9	9
Guest Professors	2	1	1	-	-
Assoc. Prof.	15	12	15	16	17
Senior Lecturers PhD.	35	45	58	56	52
Senior Lecturers	26	16	13	9	9
Assistants	1	1	-	-	-
Lectors	6	6	5	4	4
Research staff	9	9	6	8	6
Tech. Admin. Staff	49	52	47	44	44
Total	152	153	155	146	141

Programmes of Study:

Bachelors Degree Programme: *INFORMATICS*

1st year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
1	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
	OPTIONAL				
	5BF009	Practice of Mathematics	0-2-0	1	DMM
	5BI011	Practice of Programming 1	0-0-2	1	DI
	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
2	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
	5BN010	Communication Technologies	2-0-2	5	DIN
	5BE002	Microeconomics	2-2-0	6	DMME
	OPTIONAL				
	5BI036	Practice of Programming 2	0-0-2	1	DI
	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
3	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
	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
	5BE021	Profession: Entrepreneur 1	1-2-0	2	DMME
	5BN013	Basics of Network Theory 1	2-0-2	6	DIN
	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
4	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
	OPTIONAL				
	5BE008	Macroeconomics	2-2-0	5	DMME
	5BE014	Small and Medium Entrepreneurship	2-2-0	6	DMME
	5BI052	Metaprogramming	2-0-2	5	DST
	5BA008	Numerical Methods	2-0-2	3	DMM
	5BI044	Computers Graphic and Animation	1-0-3	4	DIN
	5BE022	Profession: Entrepreneur 2	1-2-0	3	DMME
	5BA030	Probability and Statistics	2-2-0	6	DTN
	5BL042	Sociology	1-2-0	5	DMT
	5BI048	Techniques of Programming 1	0-0-4	4	DI
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
5	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
	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	6	DMME
	5BH021	Technical Equipment of PC	0-0-2	3	DTC
	5UA17	Queuing Theory	2-0-2	5	DMM
	5BI029	Basics of Programming in WINDOWS	2-0-2	4	DST
5BN015	Basics of Network Theory 2	2-0-2	6	DIN	
5BL013	Physical Education 5	0-0-2	1	IPE	

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
6	COMPULSORY				
	5BZ001	Bachelors Project	0-0-8	12	G
	5BL040	English Language 1	0-0-0	3	FSc_DL
	OPTIONAL				
	5IUE022	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
	5BL004	Law 2	2-2-0	5	DMME
	5BL06	Psychology	2-1-0	4	G
	5BI022	Open Source Software	1-0-3	4	DMM
	5BI050	Techniques of Programming 2	0-0-4	4	DI
	5UA002	Game Theory	2-2-0	6	DMM
	5BA010	Scheduling Theory	2-2-0	6	DMM
5UI002	Reliability Theory	2-0-2	5	DI	
5BL14	Physical Education 6	0-0-2	1	IPE	

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

Compulsory Optional Courses

Groups of Compulsory Optional Courses include further themes from kernel of knowledge for study field Information Systems in the Masters Degree Programme. Student is to choose the groups of courses, which correspond to his future professional orientation (Data Processing, Decision Support Systems, Business Informatics, Information-Communication Networks, Distributed and Parallel Systems). These groups of Compulsory optional course are connected with the Programmes of study in MSc. Degree level due to professional orientation.

Data Processing, Business Informatics, Distributed and Parallel Systems

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Autumn	COMPULSORY OPTIONAL				
	5US009	Internet and Intranet Application Development	2-0-2	4	DI
	COMPULSORY OPTIONAL				
Spring	5BI010	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

Decision Support Systems,

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Autumn	COMPULSORY OPTIONAL				
	5BE007	Finance of Enterprise	2-0-2	6	DMME
	COMPULSORY OPTIONAL				
Spring	5BA006	Modelling and Optimisation	2-0-2	6	DTN
	5BI046	Software Modelling	2-0-2	6	DI

Information-Communication Networks

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Autumn	COMPULSORY OPTIONAL				
	5BN003	Computer Networks 1	2-0-4	6	DIN
	5BN011	Computer Networks 3	2-0-2	6	DIN
	COMPULSORY OPTIONAL				
Spring	5US004	Analysis of Processes	2-0-2	6	DIN
	5BN004	Computer Networks 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
Autumn	OPTIONAL				
	5BF019	Mathematical Analysis 3	2-2-1	6	DMM
	COMPULSORY OPTIONAL				
Spring	5BA030	Probability and Statistics	2-2-0	6	DMM

Bachelors Degree Programme: COMPUTER ENGINEERING

1st year

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
1	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
	OPTIONAL				
	5BF009	Practice of Mathematics	0-2-0	1	DMM
	5BL015	Foreign Language 1	0-2-0	3	FSc-DL
	5BI011	Practice of Programming 1	0-0-2	1	DI
5BL009	Physical Education	0-0-2	1	IPE	

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
2	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
	5BF014	Mathematical Analysis 2	2-2-1	6	DMM
	5BH008	Theory of Automatic Control 1	2-1-1	6	DTC
	OPTIONAL				
	5BI036	Practice of Programming 2	0-0-2	1	DI
	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

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
3	COMPULSORY				
	5BF007	Electronics	2-0-2	6	DTC
	5BI039	Informatics 3	2-1-2	5	DST
	5BH001	Logical Systems	2-0-2	6	DTC
	COMPULSORY OPTIONAL				
	5BF019	Mathematical Analysis 3	2-2-1	6	DMM
	5BN003	Computer Networks 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
	5BE021	Profession: Entrepreneur 1	1-2-0	2	DMME
	5BN013	Basics of Network Theory 1	2-0-2	6	DIN
	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
4	COMPULSORY				
	5BA024	Discrete Probability	2-2-1	6	DTN
	5BH002	Measurements	2-0-2	6	DTC
	5BL004	Law 2	2-2-0	5	DMME
	5BH018	Digital Computers	3-0-1	6	DTC
	5BH004	Digital Systems	2-0-2	6	DTC
	COMPULSORY OPTIONAL				
	5BN004	Computer Networks 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				
	5BF010	Complex Variable and Integral Transformation	2-1-1	4	DMM
	5BA008	Numerical Methods	2-0-2	3	DMM
	5BI044	Computers Graphic and Animation	1-0-3	4	DIN
	5BE022	Profession: Entrepreneur 2	1-2-0	3	DMME
	5UE004	Basics of Electronic Business	2-0-2	6	DIN
	5BL042	Sociology	1-2-0	5	DMT
	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

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
5	COMPULSORY				
	5BH005	Electronic Systems	2-0-2	6	DTC
	5BH019	Construction and Technology of Electronic System Production	1-0-3	4	DTC
	5BS001	Operational Systems	2-0-2	6	DI
	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 – Access	2-0-2	4	DI
	5BS005	Identification of Systems	2-0-2	6	DTC
	5UM023	Communication Management	2-2-0	5	DMT
	5US007	Multimedia Information Systems	2-0-2	6	DTN
	5UA005	Petri Nets	2-0-2	6	DTN
	5BN011	Computers Networks 3	2-0-2	6	DIN
	5BL003	Law 1	2-2-0	6	DMME
	5BN015	Basics of Network Theory 2	2-0-2	6	DIN
	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
6	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				
	5BI010	JAVA – Language and Development 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 courses, so that to obtain 15 credits in Bachelors Programme of study.

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

Bachelors Degree Programme: MANAGEMENT

1st year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
1	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
	5BL003	Law 1	2-2-0	6	DMME
	5BE001	Basics of Economic Theory	2-2-0	6	DMME
	OPTIONAL				
	5BF009	Practice of Mathematics	0-2-0	1	DMM
	5BI011	Practice of Programming 1	0-0-2	1	DI
	5BM021	Presentation Techniques	0-2-0	3	DMT
	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
2	COMPULSORY				
	5BI040	Informatics for Management 2	2-1-1	6	DI
	5BE014	Small and Medium Entrepreneurship	2-2-0	6	DMT
	5BM010	Management 1	2-2-0	6	DMT
	5BE002	Microeconomics	2-2-0	6	DMME
	5BE016	Business Economy	3-2-0	6	DMT
	OPTIONAL				
	5BI036	Practice of Programming 2	0-0-2	1	DI
	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
3	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
	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
4	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
	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 2nd year of study: 120

3rd year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
5	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
	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
	5BN019	Basics of Research	0-2-0	3	DMT
5BL013	Physical Education 5	0-0-2	1	IPE	

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

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Autumn	COMPULSORY OPTIONAL				
	5UE013	Controlling	2-1-0	4	DMME
	5BM015	Supply Management	2-1-0	4	DMT
	5BM023	Marketing Communication	2-2-0	5	DMT
	5BA013	Modelling and Simulation	2-0-2	6	DTN

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Spring	COMPULSORY OPTIONAL				
	5UE022	Taxes and Budget	2-0-1	5	DMME
	5BL036	Business Ethics	2-1-0	4	DMT
	5BE020	Financial-Economical Analysis	2-1-1	4	DMME
	5BM018	Quality in Services	2-1-0	4	DM
	5BE008	Macroeconomics	2-2-0	5	DMME
	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
	5BL042	Sociology	1-2-0	5	DMT

From the group of Compulsory optional courses student has to choose courses, so that to obtain 15 credits in Bachelors Programme of study.

Abbreviations: DMM - Department of Mathematical Methods
 DI - Department of Informatics
 DTC - Department of Technical Cybernetics
 DIN - Department of Information Networks
 DTN - Department of Transportation Networks
 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

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

Masters Degree Programme: INFORMATION SYSTEMS

1st year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
1	COMPULSORY				
	5IN017	Architecture of Networks	2-0-2	5	DIN
	5II015	Data Structures 2	2-0-2	5	DTN
	5II007	Database Systems 2	2-0-2	5	DI
	5IN009	Optimisation of Networks	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
2	COMPULSORY				
	5IS008	Architectures of Information systems	2-0-2	5	DIN
	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
3	COMPULSORY				
	5II017	Cryptography and Safety	2-0-2	5	DMM
	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
4	COMPULSORY				
	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

Decision Support Systems

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

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

Data Processing

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

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

Information-Communication Networks

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

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

Business Informatics

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

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester	COMPULSORY OPTIONAL				
Spring	5IE010	Accounting and Analysis	3-2-0	5	DMME
	5II024	Artificial Neural Networks and Soft Computing	2-0-2	5	DMME

Distributed and Parallel Systems

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

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
	COMPULSORY OPTIONAL				
Spring	5IA006	Mathematical Programming	2-0-2	5	DTN
	5II026	Complexity of Distributed and Parallel Algorithms	2-0-2	5	DTC

From the group of Compulsory optional courses student has to choose courses, so that to obtain min 15 credits.

Groups of Optional courses

Decision Support Systems

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
	OPTIONAL				
Autumn	5IS007	Distributed Systems	2-0-2	5	DTC
	5IS009	Expert Systems	2-0-2	6	DTN
	5II032	Design Patterns	2-0-2	5	DI
	5IN005	Architecture of Networks	2-0-2	5	DIN

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
	OPTIONAL				
Spring	5US04	Analysis of Processes	2-0-2	5	DIN
	5II028	Database Languages	2-0-2	5	DI
	5IA010	Implementation of Optimization Algorithms	2-0-2	5	DTN
	5IM012	Quantitative Methods in Logistics	2-0-2	5	DMM
	5IA008	Metaheuristics	2-0-2	5	DTN
	5IE012	Prognostics	2-0-2	6	DMME
	5IS002	Real Time Systems Programming	2-0-2	5	DI
	5UA002	Game Theory	2-2-0	6	DMM
	5BA010	Scheduling Theory	2-2-0	6	DMM
	5UI002	Reliability Theory	2-0-2	5	DI

Data Processing

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester	OPTIONAL				
Autumn	5IS009	Expert Systems	2-0-2	6	DTN
	5IS011	HPC and Grid computing	2-0-2	5	DTC
	5IA009	Mathematical Aspects of High Performance Computing	2-0-2	5	DTC
	5II032	Design Patterns	2-0-2	5	DI
	5IN005	Architecture of Networks	2-0-2	5	DIN

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester	OPTIONAL				
Spring	5US004	Analysis of Processes	2-0-2	5	DIN
	5IA010	Implementation of Optimization Algorithms	2-0-2	5	DTN
	5IM014	Quality Management – Access and TQM Methods	2-1-0	5	DMT
	5IA008	Metaheuristics	2-0-2	5	DTN
	5IE012	Prognostics	2-0-2	6	DMME
	5IS010	Real Time Systems Programming	2-0-2	5	DI
	5II030	Techniques of Programming 3	0-0-4	4	DI
	5UA02	Game Theory	2-2-0	6	DMM
	5BA010	Scheduling Theory	2-2-0	6	DMM
5UI002	Reliability Theory	2-0-2	5	DI	

Information Communication Networks

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester	OPTIONAL				
Autumn	5IS009	Expert Systems	2-0-2	6	DTN
	5IS011	HPC and Grid computing	2-0-2	5	DTC
	5II032	Design Patterns	2-0-2	5	DI
	5IS013	Developing Standards Open MP and MPI	2-0-2	5	DTC

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester	OPTIONAL				
Spring	5IS006	Geographical Information Systems	2-0-2	5	DTN
	5IE012	Prognostics	2-0-2	6	DMME
	5IA010	Implementation of Optimization Algorithms	2-0-2	5	DTN
	5IA008	Metaheuristics	2-0-2	5	DTN
	5IE012	Prognostics	2-0-2	6	DMME
	5IS002	Real Time Systems Programming	2-0-2	5	DI
	5BA010	Scheduling Theory	2-2-0	6	DMM
	5UI002	Reliability Theory	2-0-2	5	DI

Business Informatics

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Semester	OPTIONAL				
Autumn	5IE005	Management Accounting	2-2-0	6	DMME
	5II032	Design Patterns	2-0-2	5	DI
	5II013	Advanced Object Oriented Technologies	2-0-2	5	DI
	5IN005	Architecture of Networks	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
	5IA010	Implementation of Optimization Algorithms	2-0-2	5	DTN
	5IM012	Quantitative Methods of Logistics	2-0-2	5	DMM
	5IA008	Metaheuristics	2-0-2	5	DTN
	5IE012	Prognostics	2-0-2	6	DMME
	5BA010	Scheduling Theory	2-2-0	6	DMM

Distributed and Parallel Systems

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Autumn	OPTIONAL				
	5IS009	Expert Systems	2-0-2	6	DTN
	5II032	Design Patterns	2-0-2	5	DI
	5IN005	Architecture of Networks	2-0-2	5	DIN

Semester	OPTIONAL				
Spring	5US004	Analysis of Processes	2-0-2	5	DIN
	5IS006	Geographical Information Systems	2-0-2	5	DTN
	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
	5BA010	Scheduling Theory	2-2-0	6	DMM
	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
1	COMPULSORY				
	5IPOP1	Project 1	0-2-4	6	G
	5IH009	Digital Signal Processing 1	2-0-2	5	DTC
	5IH013	Technical Means of Control and Information Systems	2-0-2	5	DTC
	5IH011	Introduction to the Theory of Discrete Systems	2-2-0	6	DTC

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
2	COMPULSORY				
	5IH002	Design of the Customer Integrated Circuits	2-0-2	5	DTC
	5IH006	Digital Data Transmission	2-0-2	5	DTC
	5IPOP2	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
3	COMPULSORY				
	5IN005	Networks Architecture	2-0-2	5	DIN
	5IP005	Internship	0-0-0	0	DMT
	5IPOP3	Project 3	0-2-4	6	G

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
4	COMPULSORY				
	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
Autumn	COMPULSORY OPTIONAL				
	5IH007	Adaptive Systems of Automatic Control	2-0-2	5	DTC
	5IS007	Distributed Systems	2-0-2	5	DTCT
	5II017	Cryptography and Safety	2-0-2	5	DMM
	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
Spring	COMPULSORY OPTIONAL				
	5II012	Data Mining	2-0-2	5	DI
	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

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Autumn	OPTIONAL				
	5IH015	Applications of the microprocessors implemented into the FPGA devices	2-0-2	6	DTC
	5II019	Computer Speech Recognition	2-0-2	6	DTC

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Spring	OPTIONAL				
	5BA010	Scheduling Theory	2-2-0	6	DMM
	5IH010	Selected Methods of Signal Compression	2-0-2	6	DTC

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

Master Degree Programme: MANAGEMENT

1st year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
1	COMPULSORY				
	5IE017	Econometrics	2-0-2	6	DMT
	5IE005	Management Accounting	2-2-0	6	DMME
	5IM021	Marketing Control	2-2-0	6	DMT
	5US003	Software Engineering	2-0-4	6	DI
	5IP0M1	Project 1	0-2-4	6	G

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
2	COMPULSORY				
	5IM026	International Management and Marketing	2-2-0	6	DMT
	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

2nd year of study

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
3	COMPULSORY				
	5IM027	Logistics	3-1-0	6	DMT
	5IM017	Organizational Behaviour	2-2-0	6	DMT
	5IP009	Design of Management Systems	0-4-1	6	DMT
	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
4	COMPULSORY				
	5IZ001	Diploma Thesis	0-0-20	30	G
	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
Autumn	COMPULSORY OPTIONAL				
	5UM023	Managerial Communication	2-2-0	5	DMT
	5IM011	Management Games and Simulations	1-0-2	5	DMT
	5IM025	Marketing Tools and Applications	2-0-2	5	DMT
	5IM029	Research in Management	2-1-1	5	DMT

Semester	Code	COURSE	HOURS PER WEEK	ECTS	Department
Spring	COMPULSORY OPTIONAL				
	5IM014	Complex Quality Management- TQM Methods	2-1-0	5	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
Autumn	OPTIONAL				
	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
	5IM012	Quantitative Methods of Logistics	2-0-2	5	DMM
	5UE004	Basics of Electronic Business	2-0-2	6	DIN

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

Students with excellent results:

Excellent Masters Thesis:

Student Name	Thesis Title	Supervisor
Michal Kocifaj	Container terminal module for agent based simulation model of logistic systems	Ing. Norbert Adamko , PhD.
Lukáš Falát	Time series modelling and forecasting with statistical and hybrid NNW models I	Prof.Ing. Dušan Marček , PhD.
Matej Kurpel	Mobile phone acting as a cryptographic token	Assoc.Prof.Ing. Emil Kršák , PhD.
Jana Orieščiková	General methodology for selection of appropriate Self-Assessment model	Assoc.Prof. Ing. Miroslav Hrnčiar , PhD.
Michal Bížik	Prediction ex ante financial situation of enterprise in the Slovak Republic.	Assoc.Prof.Ing. Mária Ďurišová , PhD.
Barbora Klepáčová	Proposal of effective biological waste disposal management	Mgr. Jakub Soviar , PhD.
Peter Juríček	Quality management systems, their application in selected enterprise	Ing. Radoslav Jankal , PhD.
Alžbeta Karpišová	Proposal of company financial management which is based on comparative analysis of measurement of the enterprises financial situation in Slovak Republic and Germany	Assoc.Prof.Ing. Mária Ďurišová , PhD.
Miroslav Bendík	Using NNW to detection of human face in pictures	Prof.Ing. Dušan Marček , PhD.
Ján Kolčák	Optical Character Recognition using NNW	Prof.Ing. Dušan Marček , PhD.
Peter Siman	Speech recognition	Ing. Matej Jurečka , PhD

Excellent Bachelors Thesis:

Student Name	Thesis Title	Supervisor
Juraj Branický	Application for selling travel tickets via mobile phone	Ing. Marek Tavač
Alžbeta Jánošíková	Comparison of algorithms „Variable Neighbourhood Search“with a simple exchange heuristic for the p-median problem.	Ing. Michal Koháni , PhD.
Jozef Štyrák	Comparison of „Particle Swarm Optimisation“ and „Cuckoo search“ on a selected problem	Ing. Ľuboš Buzna , PhD.
Maroš Vaňo	Creation of user interface for industrial robot control in real-time mode	Assoc.Prof.Ing. Juraj Miček , PhD.
Miroslava Vrabcová	Applying Software to Solving Mathematical Problems and Data Analysis in Economics	Assoc.Prof.RNDr. Katarína Bachratá , PhD.
Katarína Kojtalová	Online Marketing and its Application for Portal LIPTOV.sk	Ing. Viliam Lendel , PhD.
Monika Bačíková	Increasing Competitiveness of the Company by Blue Ocean Strategy Methodology.	Assoc.Prof.Ing. Jozef Vodák , PhD.

Alžbeta Pallová	Monitoring of internal and external enterprise environment	Ing. Jana Dicová , PhD.
Marcel Kocifaj	Measurement of customer satisfaction of “Pension pri Trojičke” Ltd.	Ing. Michal Varmus , PhD.
Róbert Ďurec	Marketing plan of the MGM Reality agency	Ing. Zuzana Kozubíková , PhD.
Katarína Kontrošová	Search engine marketing and its application in practical projects	Ing. Viliam Lendel , PhD.
Vladimír Smataník	Extension of Geogebra software capabilities by tools for support of the probability and statistics education	RNDr. Aleš Kozubík , PhD.

Students participation at the Professional Competitions:

Student Competition IAB Slovakia:

Katarína Kojtalová - 1st. place

Katarína Kontrošová - 4th place

**International Competition in Programming “Central European Regional Contest’11”,
Wroclaw:**

1. Martin **Berzák**
2. Filip **Franc**
3. Michal **Vrtiak**
4. Miloš **Korenčiak**
5. Miroslav **Kvaššay**
6. Jozef **Štaffen**

International Competition “Central European Regional Contest’2011”, Prague:

1. Jakub **Berthóty**
2. Miloš **Korenčiak**
3. Miroslav **Kvaššay**
4. Martin **Bulík**
5. Stanislav **Gálfy**
6. Matúš **Hovanec**

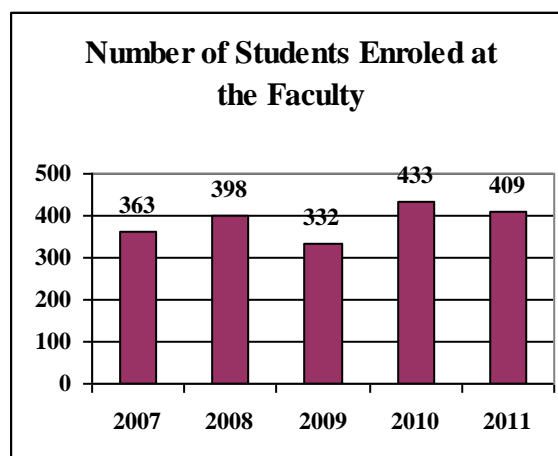
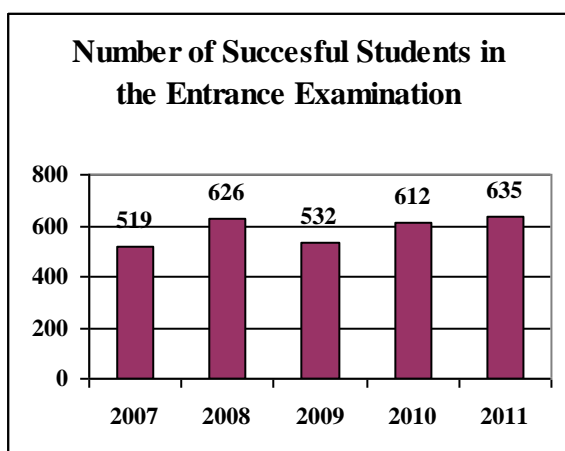
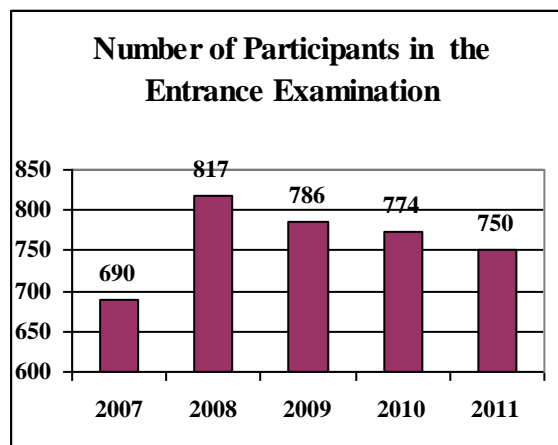
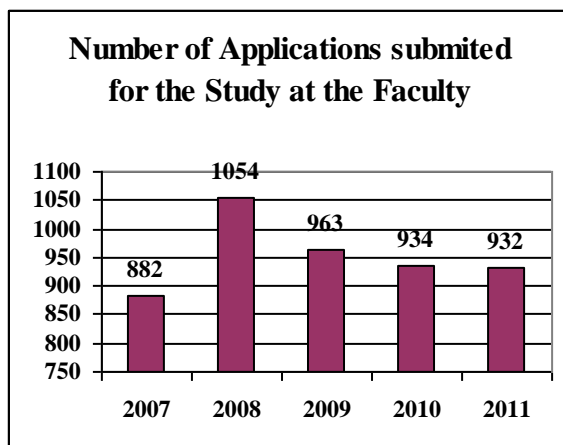
Students:

In November 2011, there were **996** students for Bachelors degree programme, **351** students for Masters Degree programme and **44** doctoral full-time students and **22** doctoral part-time students at the Faculty. An overview of number of students within last five years is on the following tablet:

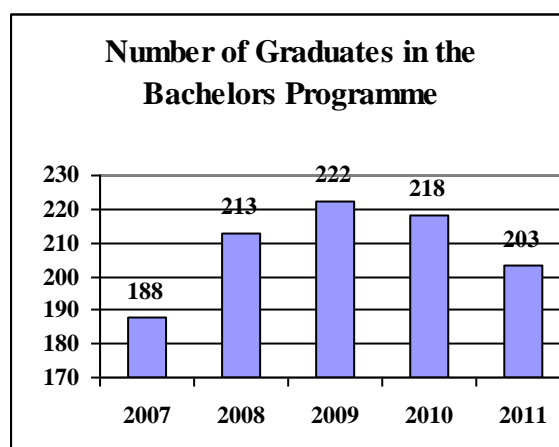
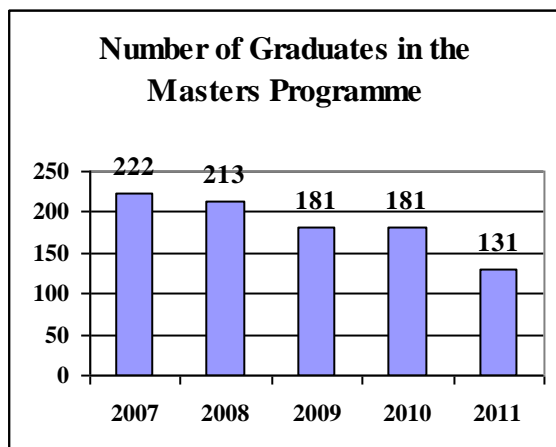
	2007	2008	2009	2010	2011
Bc.		961	890	872	996
MSc.	1401	402	392	363	351
PhD.	64	60	66	67	66
Total	1465	1423	1348	1235	1347

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 2011 participated in the Entrance exams **750** candidates for the study at the Faculty. From this number **635** were successful and **409** students were enrolled. They started in September 2011 their Programmes of study at the Faculty



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 in 2011 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 Politecnica de Valencia, Facultad d'Informatica, (E)
- Universidad Politecnica de Valencia, Escuela Technica Superior deTelecomunicacion, (E)
- University of Porto (P)
- Mikolas Romeris University, Vilnius (LT)
- Széchenyi István University, Győr, (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 **2011** followed or will follow (in the Spring semester) **16** students in the frame of the programmes ERASMUS the programme of study at the partner's universities and Institutions from the Faculty.

Foreigner Students at the Faculty in 2011

In the frame of Student Training Agreement with Telecom SudParis Evry, FRANCE, 3 students took part in 2011 two months internship at the Faculty and 2 students from University of Porto in the frame of the programmes ERASMUS.

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

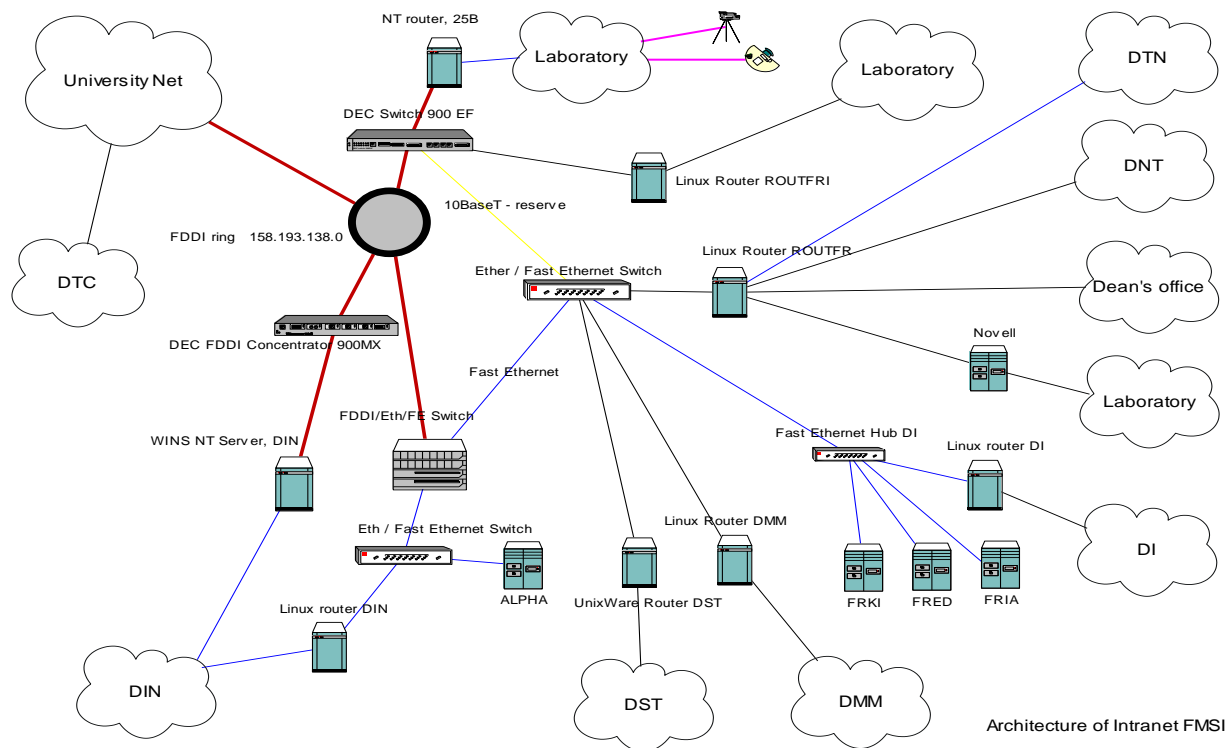
It was in 1992 when the Intranet of Faculty was created and in the meantime was continuously improving. It came into existence from the needs to process and to make accessible lot of information to students and to pedagogical staff, as well. The intranet of Faculty is a part of University Intranet, which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



Architecture of Intranet FMSI

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 Networks | - | DIN |
| Department of Transportation Networks | - | 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:

