

DEPARTMENT OF ELECTRICAL ENGINEERING AND MECHATRONICS

<http://kem.fei.tuke.sk>

Tel.: ++421 55 602 2279, Fax: ++421 55 633 0115

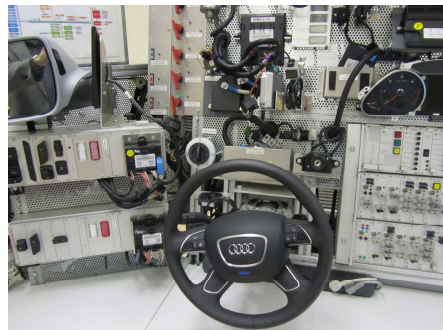
Head of Department
prof. Ing. Daniela Perduková, PhD.
E-mail: Daniela.Perdukova@tuke.sk



1 DEPARTMENT'S PROFILE

The Department belongs to the first departments, established at foundation of the Faculty of Electrical engineering (founded in 1969). In 2005 staff members from the Laboratory of Industrial Engineering joined the department and it was renamed to Department of Electrical, Mechatronic and Industrial Engineering that was changed to Department of Electrical Engineering and Mechatronics in the year 2010.

The Department is responsible for education and research in electrical engineering in fields of power and industrial electronics, electrical machines and apparatuses, electromechanical systems, esp. in controlled drives, industrial and automotive mechatronic systems and in the area of effective production planning and control, quality management, and continuous improvement of products and services. The Department offers all types of university courses (bachelor in 2 branches, two master courses and two Ph.D. courses).



2 STAFF

- Professors:** prof. Ing. Jaroslav Dudrik, PhD.
prof. Ing. Pavol Fedor, PhD.
prof. Ing. Daniela Perduková, PhD.
prof. Ing. Pavel Záskalický, PhD.
- Associate Professors:** doc. Ing. František Ďurovský, PhD.
doc. Ing. Viliam Fedák, PhD.
doc. Ing. Želmíra Ferková, PhD.
doc. Ing. Michal Girman, PhD.
doc. Ing. Jaroslava Žilková, PhD.
- Assistant Professors:** Ing. Peter Bober, PhD.
Ing. Peter Girovský, PhD.
Ing. Ján Kaňuch, PhD.
Ing. Milan Lacko, PhD.
Ing. Karol Kyslan, PhD.
- Senior Scientists:** Ing. Peter Hajsák
Ing. Michal Pajkoš
- Technical Staff:** Ing. Gabriela Brečková
Zuzana Olexová
doc. Ing. Michal Kostelný, PhD.
prof. Ing. Jaroslav Timko, CSc.
- Full time Ph.D. Students:** Ing. Ján Bačík
Ing. Mišel Batmed
Ing. Godem Ali M. Ismeal
Ing. Marek Pástor
Ing. Radoslav Sivý
Ing. Viktor Šlapák
Ing. Marek Vacek

3 LABORATORIES

- Laboratory of Electrical Engineering
- Power Electronics Laboratory
- Laboratory for CAD (COSMOS, ProEngineer, MATLAB, PSpice, and applied SW, ABBRobotStudio)
- Laboratory of Industrial Automation
- Laboratory of Electrical Machines
- Laboratory of Electrical Drives
- Laboratory of Controlled Electrical Drives and Mechatronics
- Laboratory of Process Modelling and Simulation
- Laboratory of Automotive Mechatronics
- Laboratory of Pneumatic and Hydraulic Drives
- Virtual Laboratory of Technological Processes Control by Programmable Logic. www.virtual.laboratory.kempi.fei.tuke.sk
- Virtual Laboratory of Mechatronic Systems Control: <http://andromeda.fei.tuke.sk>
- Laboratory for Integrated Mechatronic Modules for Adaptive Drives. Joint Laboratory of Department of Electrical Engineering and Mechatronics TU Košice, ZTS VVÚ Košice, a.s. and SPINEA, s.r.o. Prešov.

4 TEACHING

4.1. Undergraduate Study (Bc.)

a) Bc. study programme in Electrical Engineering (till August 2013)

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Electrical Engineering Fundamentals	1 st	2/2	Kaňuch
Industrial Electronics	2 nd	2/2	Záskalický
Electrical Machines	3 rd	2/2	Záskalický
Microprocessor Techniques	3 rd	2/2	Lacko
Electrical Drives and Power Electronics	4 th	2/2	Záskalický
Man-Machine Interfaces	4 th	2/2	Perduková
Semiconductor Supplies and Converters	5 th	3/2	Dudrik
Automation in Industrial Systems	5 th	2/2	Fedor
Bachelor Thesis I.	5 th	0/5	Supervisor
Controlled Drives	6 th	2/2	Ďurovský
Electrical Systems Projecting	6 th	2/2	Ferková
Bachelor Thesis II.	6 th	0/9	Supervisor

b) Bc. study programme in Automation of Mechatronic Systems (till August 2013)

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Electrical Engineering Fundamentals	1 st	2/2	Kaňuch
Microcontroller Techniques	3 th	2/2	Lacko
Computer Applications	3 th	2/2	Perduková
Electrical Machines	3 rd	2/2	Záskalický
Electrotechnics in Vehicles	3 th	2/2	Ďurovský

Linux I.	3 th	2/2	Keusch
Electrical Actuators and Drives	4 th	2/2	Žilková
ManMachine Interface	4 th	2/2	Peďuková
CAD Programs in Mechatronics	4 th	2/2	Fedák
Industrial Electronics	4 th	2/2	Záskalický
Bachelor Thesis I.	5 th	0/8	Supervisor
Industrial Control Systems	5 th	2/2	Fedor
Sensors and Measurement of Non-electrical Variables	4 th	2/2	Girovský
Pneumatic nad Hydraulic Drives	5 th	2/2	Bober
Automotive Mechatronics	5 th	2/2	Đurovský
Power Semiconductor Converters	5 th	2/2	Dudrik
Bachelor Thesis II.	6 th	0/8	Perďuková
Projecting of Electrical Systems	6 th	2/2	Ferková
Technical Practice	6 th	0/6	Perďuková

c) Bc. study programme in Industrial Engineering (till August 2013)

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Electrical Machines	3 rd	2/2	Záskalický
Human Resource Management	3 th	2/2	Girman
Pneumatic and Hydraulics Drives	3 th	2/2	Bober
Computer Applications	3 th	2/2	Perďuková
Linux I.	3 th	2/2	Keusch
Electrical Actuators and Drives	4 th	2/2	Žilková
Simulation of Production Systems	4 th	2/2	Bober
Man-Machine Interface	4 th	2/2	Perďuková
Industrial Electronics	4 th	2/2	Záskalický
Sensors and Measurement of Non-electrical Variables	4 th	2/2	Girovský
Automation of Industrial Systems	5 th	2/2	Fedor
Microprocessor Technique	5 th	2/2	Lacko
Computer Suport of Management	5 th	2/2	Fedák
Projecting of Electrical Systems	5 th	2/2	Ferková
Power Semiconductor Converters	5 th	2/2	Dudrik
Controlled Drives	6 th	2/2	Đurovský
Technical Practice in Enterprise	6 th	0/6	Perďuková
Bachelor Thesis	6 th	0/4	Supervisor

d) Bc. study programme in Control of electromechanical systems (since September 2013)

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Electrical Engineering Fundamentals	1 st	2/2	Kaňuch
Computer Applications	3 th	2/2	Perďuková
Electrical Machines	3 rd	2/2	Záskalický
Electrotechnics in Vehicles	3 th	2/2	Đurovský
Linux I.	3 th	2/2	Perďuková
Industrial Electronics	3 th	2/2	Záskalický
Electrical Drives	4 th	2/2	Žilková
CAD Programs in Electrical Engineering	4 th	2/2	Fedák
Power Semiconductor Converters and Sources	4 th	2/2	Dudrik
Sensors and Measurement of Nonelectrical	4 th	2/2	Girovský

Variables			
Industrial Control Systems	4 th	2/2	Fedor
Bachelor Thesis I.	5 th	0/8	Supervisor
Simulation of Production Systems	5 th	2/2	Bober
Controlled Electrical Drives	5 th	2/2	Đurovský
Microprocessor Technique	5 th	2/2	Lacko
ManMachine Interface	5 th	2/2	Perduková
Bachelor Thesis II.	6 th	0/8	Perduková
Modeling of Electromechanical Systems	6 th	2/2	Fedák
Projecting of Electrical Systems	6 th	2/2	Ferková
Pneumatic and Hydraulics Drives	6 th	2/2	Bober

4.2. Graduate Study (Ing.)

a) Ing. study programme in Electrical Engineering (till August 2013)

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Power Semiconductor Systems	7 th	2/2	Dudrik
Applied Electronics	7 th	2/2	Kaňuch
Technology of Production in Electronics	7 th	2/2	Slosarčík
Industrial Electronics	7 th	2/2	Záskalický
Electrical Machines for Automatisation	7 th	2/2	Ferková
Databases Systems	7 th	2/2	Perduková
Servosystems	7 th	2/2	Đurovský
Control Management	8 th	2/2	Girman
Construction and Design of Converters	8 th	2/2	Dudrik
Control of Assembly Lines with Programming Controllers	8 th	2/2	Fedor
Statistical Process Control	8 th	2/2	Bober
Semester Project	8 th	0/4	Supervisor
Control Intelligent Control in El. Systems	9 th	2/2	Žilková
3D Modelling and Simulation	9 th	2/2	Ferková
Signal Processors	9 th	2/2	Lacko
Enterprise Control Management	9 th	2/2	Girman
Power Electrical Systems	9 th	2/2	Kolcun
Technology of Production in Electrotechnics	9 th	2/2	Girman
Diploma Thesis	9 th	0/12	Supervisor

b) Ing. study programme in Automation of Mechatronic Systems (till August 2013)

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Models of Mechatronic Systems	7 th	2/2	Fedák
Non-linear Mechatronic Systems	7 th	2/2	Fedor
Power Semiconductor Systems	7 th	2/2	Dudrik
Database Systems	7 th	2/2	Perduková
Servosystems	7 th	2/2	Đurovský
Semester Project	8 th	0/4	Fedor
Control of Production Systems by PLC	8 th	2/2	Fedor
Electrical Machines for Automation	8 th	2/2	Ferková
Robotics	8 th	2/2	Žilková
Diploma Thesis I.	9 th	0/6	Fedor
Production Technologies in Mechatronics	9 th	2/2	Girman
Project Control	9 th	2/2	Girman

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Models of Mechatronic Systems	7 th	2/2	Fedák
Non-linear Mechatronic Systems	7 th	2/2	Fedor
Power Semiconductor Systems	7 th	2/2	Dudrik
Database Systems	7 th	2/2	Perduková
Servosystems	7 th	2/2	Đurovský
Semester Project	8 th	0/4	Fedor
Control of Production Systems by PLC	8 th	2/2	Fedor
3D Modelling and Simulation	9 th	2/2	Ferková
Intelligent Control of EI. Systems	9 th	2/2	Žilková
Mechatronic Production Systems	9 th	2/2	Đurovský
Diploma Thesis II.	10 th	0/18	Supervisor

a) Ing. study programme in Electrical Engineering (since September 2013)

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Power Semiconductor Systems	7 th	2/2	Dudrik
Non-linear Mechatronic Systems	7 th	2/2	Fedor
Servosystems	7 th	2/2	Đurovský
Dynamic Phenomena of Electrical Machines	7 th	2/2	Záskalický
Electrical Machines for Automatisatation	7 th	2/2	Ferková
Technology of Production in Electronics	7 th	2/2	Slosarčík
Vehicle Mechatronics	8 th	2/2	Đurovský
Construction and Design of Converters	8 th	2/2	Dudrik
Control of Assembly Lines with Programming Controllers	8 th	2/2	Fedor
Statistical Process Control	8 th	2/2	Bober
Semester Project	8 th	0/4	Supervisor
Robotika	8 th	2/2	Žilková
Diploma Thesis	9 th	0/6	Supervisor
Mechatronic Production Systems	9 th	2/2	Đurovský
Control Intelligent Control in EI. Systems	9 th	2/2	Žilková
Three-Dimensional Modelling and Simulation	9 th	2/2	Ferková
Signal Processors	9 th	2/2	Lacko
Technology of Production in Electrotechnics	9 th	2/2	Girman
Diploma Thesis	10 th	0/12	Supervisor

4.3. Undergraduate and Graduate Study for Foreign Students (in English)

All subjects listed above are offered in English language for foreign students.

4.4. Ph.D Postgraduate Course on Electrical Engineering

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Power Converter Systems	1 st	2/0	Dudrik
Ph.D. Project I	1 st	0/2	Supervisor
Foreign Language I	1 st	2/0	Dept. of Foreign Languages
Servosystems	2 nd	2/0	Fedor
Ph.D. Project II	2 nd	0/2	Supervisor
Foreign Language II	2 nd	2/0	Dept. of Foreign Languages

Ph.D. Project III	3 rd	0/4	Supervisor
Subject of Specialization	3 rd	2/0	According to the subject
Scientific Activity	3 rd	0/8	Supervisor
Ph.D. Project IV	4 th	0/2	Supervisor
Scientific Activity	4 th	0/8	Supervisor
Ph.D. Project IV	5 th	0/2	Supervisor
Scientific Activity	5 th	0/8	Supervisor
Ph.D. Thesis	5 th	0/9	Supervisor

4.5. Ph.D Postgraduate Course on Mechatronic Systems

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Theory of Mechatronic Systems	1 st	2/0	Fedor
Ph.D. Project I	1 st	0/2	Supervisor
Foreign Language I	1 st	2/0	Dept. of Foreign Languages
Servosystems	2 nd	2/0	Fedor
Ph.D. Project II	2 nd	0/2	Supervisor
Foreign Language II	2 nd	2/0	Dept. of Foreign Languages
Ph.D. Project III	3 rd	0/4	Supervisor
Subject of Specialization	3 rd	2/0	According to the subject
Scientific Activity	3 rd	0/8	Supervisor
Ph.D. Project IV	4 th	0/2	Supervisor
Scientific Activity	4 th	0/8	Supervisor
Ph.D. Project IV	5 th	0/2	Supervisor
Scientific Activity	5 th	0/8	Supervisor
Ph.D. Thesis	5 th	0/9	Supervisor

5 RESEARCH PROJECTS

- *Research of power semiconductor converters with high efficiency of electric energy conversion.* APVV - 0185-10 (Slovak Research and Development Agency), 2011-2014. Principal investigator: DUDRIK, J.
- *Centre of excellence of power electronics systems and materials for their components II.* Code ITMS: ITMS: 26220120046, (9/2010 - 8/2013) The project is funded by European Community, ERDF – European regional development fund. Project contractor: University of Žilina, co-operation FEI TU Košice. Co-ordinator: DUDRIK, J.
- *Centre of excellence on integrated research and application of progressive materials and technologies in automotive electronics.* ITMS 26220120055. Agency of the Ministry of Education, Science, Research and Sport of the Slovak Republic for the Structural Funds of EU. (2010 – 2013).
- *Research and development of a small power drives with two-phase motors,* APVV-0138-10, 2011-2014, Principal investigator: Záskalický, P.

6 CO-OPERATION

6.1. Co-operation in Slovakia

The Department co-operates with many industrial enterprises in Slovakia having joint project at modernising of the electrical drive systems, control and mechatronic applications: U.S.STEEL Košice, SIEMENS, ABB, BSH Drives and Pumps Michalovce, BWG Prešov, Křížík Prešov, Schneider Electric Slovakia, Spell Procont Prešov, Spinea Prešov, Vonsch Brezno, Kybernetika Košice, TEKO Košice, ENERGO CONTROL Košice, ZŤS VVU Košice, ŽP Podbrezová, Bukóza Hencovce, Genesis Prešov, Embraco Slovakia Spišská Nová Ves, Kopex Košice, Slovak Union for Quality, Innovation and Design Q-IMPULZ, Košice, SEZ Krompachy, DATAKON Košice, SLOVRES Košice.

6.2. International Co-operation

- University of Zagreb, Croatia
- Brno University of Technology, Czech Republic
- Technical University of Liberec, Czech Republic
- VŠB -Technical University of Ostrava, Czech Republic
- West Bohemian University, Pilsen, Czech Republic
- University of Technology and Economy, Budapest, Hungary
- University of Miskolc, Hungary
- Delft University of Technology, The Netherlands
- Warsaw University of Technology, Poland
- Czech Academy of Science, Prague.
- Silesian Polytechnic Institute of Gliwice
- Transilvania University of Brasov, Romania
- University of Oradea, Romania
- University of Maribor, Slovenia
- INPL-ENSEM Nancy, France

6.2.1. Visits of Staff Members to Foreign Institutions

- DUDRIK, J, KYSLAN, K.:EDPE 2013, Dubrovnik, Croatia, 2-4 October 2013
- ĎUROVSKÝ, F.: Workshop at EUROMEC, Clusterland OÖ GmbH, Linz, (AT) 5-7 March 2013.
- ĎUROVSKÝ, F.: Johannes Kepler University, Linz, (AT), 7 March 2013.
- ĎUROVSKÝ, F.: Internationales Forum Mechatronik 2013, Winterthur (CH), 30-31 October 2013.
- ĎUROVSKÝ, F.: Department of Production Machines and Equipment, CVUT Prague, 28-29 November 2013.
- FERKOVÁ,Ž.: ISEM 2013, ČVUT Praha (CZ), 10-12 September 2013,
- FERKOVÁ,Ž.: EDPE 2013,University of Zagreb, Faculty of Electrical Engineering and Computing, Croatia
- FERKOVÁ,Ž.: TechSoft Praha, TU Liberec(CZ), 24.-27. April 2013.
- KAŇUCH, J., FERKOVÁ, Ž.: ZČU Plzeň (ČR), 21-25 Januar 2013.
- KAŇUCH, J., FERKOVÁ, Ž.: Akademia morska, Gdynia (PL), 16-19 June 2013.
- KAŇUCH, J.: Univerzita Pardubice, Pardubice (ČR), 10-12 September 2013.
- KYSLAN, K.; LACKO, M; ŠLAPÁK, V.: 33.konferencia o elektrických pohonech, Pilsen (CZ), 10.-14. June, 2013.
- KYSLAN, K.; PAJKOŠ, M.: SPS/IPC Drives 2013, Nürnberg (D), 25.-29. November 2013.
- PERDUKOVÁ, D.: SOCO 2013, Salamanca, Spain.11–13 September 2013

- ZÁSKALICKÝ, P., KAŇUCH, J.; KOMEL Katowice, Rytró (PL), 22-24 May 2013.

6.3. Membership in International Organizations, Societies and Committees

- DUDRIK, J. – IEEE member
- DUDRIK, J., FEDÁK, V., TIMKO, J.: Power Electronics and Motion Control Council EPE-PEMC – Budapest. Council and Steering Committee members.
- FEDÁK, V.: EPE – European Power Electronics and Drives Association, Brussels. Executive Council member, General Assembly member, ISC
- FEDÁK, V.: EDPE 2013, Dubrovnik. Conference Co-chairman.
- FEDÁK, V.: IEEE ICETA 2013, Starý Smokovec. Program Chairman
- FERKOVÁ, Ž.: member of Steering Committee ISEM (INTERNATIONAL SYMPOSIUM ON ELECTRIC MACHINERY) ČVUT Praha.
- FEDÁK, V.: EDPE 2013, Dubrovnik, Co-chairman.
- FEDOR, P.: member of Programme Committee: 8th International Conference on Soft Computing Models in Industrial and Environmental Applications – SOCO 2013, Salamanca, Spain.
- PERDUKOVÁ, D.: member of Programme Committee: 8th International Conference on Soft Computing Models in Industrial and Environmental Applications – SOCO 2013, Salamanca, Spain.
- ZÁSKALICKÝ, P.: member of Programme Committee: 17th International Conference Electronics 2013, Palanga, Lituanie.
- ZÁSKALICKÝ, P.: member of Programme Committee: 49th International Conference SME 2013, Gdynia, Poland.
- ŽILKOVÁ, J.: member of Programme Committee: 8th International Conference on Soft Computing Models in Industrial and Environmental Applications – SOCO 2013, Salamanca, Spain.

6.4. Membership in Slovak Professional Bodies

- FEDÁK, V.; KAŇUCH, J.; TIMKO, J.; ZÁSKALICKÝ, P.: members of The SES (Slovak Electrotechnical Society), Branch at FEI TU Košice
- FEDÁK, V.: Council of the Secondary Technical School for EE, Košice (delegate of the FEEI TU Košice) - by September 2013
- FEDOR, P.: member of board for the PhD. Course in Mechatronic Systems at FEI TU Košice.
- FERKOVÁ, Ž.: member of Technical Standards Commission on Electrical Machines in SR
- PERDUKOVÁ, D.: member of board for the PhD. Study in Electrical Engineering at FEI TU Košice
- PERDUKOVÁ, D.: member of board for the PhD. Study in Mechatronic systems at FEI TU Košice
- PERDUKOVÁ, D.: member of Accreditation Commission working group for research in Electrical and Power Engineering
- TIMKO, J. (Vice-chairman); FEDÁK, V.; FEDOR, P. DUDRIK J. - members of Joint Slovak Board for the Ph.D. Study in Electrical Engineering
- TIMKO, J. (chairman), GIRMAN, M., KOVÁČOVÁ, I., FEDOR, P., FEDÁK, V., DUDRIK, J.: members of board for the PhD. Study in Electrical Engineering at FEI TU Košice
- TIMKO, J.: member of board for the PhD. Study in Electrical Engineering at

EF ZU Žilina

- TIMKO, J.: member of board for the PhD. Study in Mechatronics at SJF TU Košice
- ZÁSKALICKÝ, P.: member of board for the PhD. Study in Electrical Engineering at EF ZU Žilina
- ZÁSKALICKÝ, P.: member of board for the PhD. Study in Electrical Engineering at FEI TU Košice
- ZÁSKALICKÝ, P.: member of board for the PhD. Study in Mechatronic systems at FEI TU Košice

6.5. National Educational Projects

- Teaching innovation in control of mechatronic systems. KEGA 042TUKE-4/2012. Coordinator: LACKO, M.
- E-MLAB a set of original laboratory workstations to support and extend research and teaching laboratories in the field of Mechatronics. KEGA 011TUKE-4/2013. Coordinator: PERDUKOVÁ, D.

6.6. Editorial Boards

- BOBER, P. Editorial board for journal "Quality, Innovation, Prosperity" (Kvalita, Inovácia, Prosperita), ISSN 1335-1745 (print), ISSN 1338-984X (online).
- DUDRIK, J. – Member of the Series Editorial Board of Annals of the Academy of Romanian Scientists.
- DUDRIK, J.: Editorial board of Transactions on electrical engineering, Czech Republic, ISSN 1805-3386
- FEDÁK, V.: Editorial board of Scientific Works of the Institute of Electrical Machines Drives and Measurement (Wroclaw Univ. of Technology), ISSN 0033-2097
- FEDOR, P: Editorial board of Acta Electrotechnica et Informatica – AEI. Journal of the Faculty of Electrical Engineering and Informatics. ISSN 1335-8243.
- PERDUKOVÁ, D.: Editorial board of Elektroenergetika journal, ISSN 1337-6756.
- ZÁSKALICKÝ, P.: Editorial board of Acta Technica CSAV. Journal of Academy of Science of the Czech republic, Praha. ISSN 0001-7043.
- ZÁSKALICKÝ, P.: Editorial board of KOMEL, Branzowy osrodek badawczo-rozwojowy Maszyn elektrycznych, Katowice, Poland. ISSN 0239-3646.

7. THESES Defened Ph.D. Theses

- JUŠKO, Š.: Nonlinear control of dual axis mechanical system. Supervisor: Fedor, P.

Thesis type	Bachelor	Master	Doctoral
Number	37	45	1

8 OTHER ACTIVITIES

8.1. Symposia, Workshops, Conferences

- EDPE 2013. 17th International Conference on Electrical Drives and Power Electronics (and 6th Joint Croatia-Slovakia Conference), Dubrovnik, 2 - 4 October 2013. Conference Co-organisers.

8.2. Projects for Industry

- Methodology of Main Winders Drive Optimization on Hot Roll Mill. For U.S.Steel Košice. P-104-0012/13, Co-ordinator: ĎUROVSKÝ, F.

8.3. Student Competitions and Rewards

- BAČIK Ján: Week of Science and Technology in Slovakia 2013, (18 November 2013). 1st place for the best doctoral thesis

8.4. Compositions for Dissertation Examinations

- VACEK, M.: Optical robotic workplace safety system. Supervisor: Žilková, J.
- GODEM, A.M.I.: System identification and PID controller Optimization using Soft Computing Methods, Supervisor: Fedák, V.

9 PUBLICATIONS

9.1. Books

9.2. Textbooks

- [1] BOBER, Peter: Simulácia výrobných systémov. TU Košice. 2013. 73 p. ISBN 978-80-553-1486-0.

9.3. Scientific Journals

Current Journals

- [1] KAŇUCHOVÁ, Mária - MAJOROS, Milan - KAŇUCH, Ján - DING, Y - SUSNER, Michael - SUMPTION, Michael - COLLINGS, Edward ADC003 LiFeAs Pnictide Superconductor-A Simple Electrochemical Method of Preparation. In: IEEE Transactions on Applied Superconductivity. Vol. 23, no. 3 (2013), p. 1-4. - ISSN 1051-8223.
http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=2&SID=U16K8Jd45ef@8HfNcOl&page=1&doc=1.
- [2] BALARA, Dušan - TIMKO, Jaroslav - ŽILKOVÁ, Jaroslava: Application of neural network model for parameters identification of non-linear dynamic system. In: Neural network world. Vol. 23, no. 2 (2013), p. 103-116. ISSN 1210-0552.

Foreign Journals

- [1] PERDUKOVÁ, Daniela - FEDOR, Pavol: Virtual Laboratory for the Study of Technological Process Automation. In: International Journal of Engineering Education. Vol. 29, no. 1 (2013), p. 230-238. - ISSN 0949-149X.
- [2] ZÁSKALICKÝ, Pavel - KAŇUCH, Ján: Complex Fourier series mathematical model of a universal motor supplied by a triac. In: Maszyny elektryczne: Zeszyty problemowe. Vol. 99, no. 2 (2013), p. 159-162. - ISSN 0239-3646.

- [3] KAŇUCH, Ján - VIŠNYI, Peter: Control of two-phase induction motor using a conventional three-phase bridge inverter. In: Zeszyty Problemowe: Maszyny Elektryczne. Vol. 100, no. 4 (2013), p. 171-174. - ISSN 0239-3646.
- [4] FERKOVÁ, Želmíra - KAŇUCH, Ján: Two-Phase Asynchronous Motor - Simulation and Measurement. In: Zeszyty Problemowe : Maszyny Elektryczne. Vol. 100, no. 4 (2013), p. 25-30. - ISSN 0239-3646.
- [5] ZÁSKALICKÝ, Pavel: Calculation of a torque ripple a two-phase asynchronous motor supplied by a PWM controlled inverter. In: Maszyny elektryczne: Zeszyty problemowe. Vol.99, no.2 (2013), p.163-166. ISSN 0239-3646.
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9.4. Other publications

Publication Type	Confereces		Other
	Foreign	Home	
Number	26	26	0