

DEPARTMENT OF MECHATRONICS AND ELECTRONICS

1 General Information

Department of Mechatronics and Electronics (KME) was founded in January 2005 as a result of the restructuring process of the Faculty of Electrical Engineering of the University of Žilina, which was driven by dynamic changes in the nature of industrial production in Slovakia. The development of automotive and electronic industries, including their supporting companies was significant. Some industry firms, such as, Power-One Ltd. in Dubnica nad Vahom, began with the creation of research teams and departments, causing significant need for human resources - highly skilled professionals in mechatronics and electronics, including power and automotive applications. Their training in bachelor, master, and doctorate PhD level of university studies has become the main task of Department of Mechatronics and Electronics, which in December 2010 completed the sixth year of its existence.

Like the previous years, the last year could be considered as a very successful one. Within the year the updating of laboratory equipment in the building AB was completed. Significant progress has been made in building of centers of excellence laboratories, specifically undertaken in the project CEEX1 - Activity 1.1 and 3.2

In the last year the research activity of the Department has achieved a significant increasing implemented by means of grant projects. Department staff participated in three international and sixteen national projects. Within that time, solution of some new projects started. Centers of Excellence CEEX2 and CEKR2 have been built within the frame of which the Department has cooperated with several prestigious Slovak institutions (SAS Košice, The Technical University of Košice and Jesenius Faculty of Medicine of the Comenius University in Martin). These projects represent a very significant support to research which has been done in our Department. Positively can be evaluated the doctorate PhD study course in which four internal PhD students have handover their dissertation works and were successful in the defense examinations.

In the year 2010 the Department involves twelve members of educational staff, six research workers, fourteen internal PhD students and fourteen external PhD students. From the point of view of internal structure it has been divided into two divisions. The first one is focused on power- and applied electronics, the second one is operating in the field of mechatronics and industry automation.

The Department provides educational process at all three levels of the university study. The bachelor degree is covered by the accredited course of study for Electrical Engineering (specialization in Mechatronic Systems). Master degree includes the accredited course of study for Power Electronic Systems (in Power Electronics specialization and Mechatronic and Automotive Systems specialization). In doctorate PhD study the department staff participated in providing training courses in Powerline Electronics, Automation and Telecommunications.

Within the frame of educational pedagogical operation the Department has been providing education of electronics, mechatronics, micro-computer systems involving industrial controllers and power electronics at the Faculty of Electrical Engineering, and also at further faculties of the University of Žilina. Such education has been dedicated for different study branches and specializations in the bachelor, magisterial and PhD doctoral studies, both in internal and external ones.

The Department also has organized and provided research and development, expertizing and contracts, and develops publication activity in the field of electronics, control systems, mechatronics and power electronics mainly. Further education is provided by the Department in the field of power electronic systems, microcomputer control systems, industrial controllers and programmable logic systems.

Professional activities of the Department have been applied and disseminated on creation and operation of quality and reliable electronic devices and systems, application of programmable logic areas in design of electronic systems, reconfigurable circuits study as well as diagnostics and analysing of the failures using image analysis. Topology optimising for power semiconductor converters and their electro-magnetic compatibility belongs to main activities of the Department.

In present time the Department operates with six laboratories dedicated for pedagogical operation, including final projects, final and master thesis providing. Beside above mentioned labs the Department offers for utilizing three high-tech workplaces dedicated for research and development activities and to experimental part of PhD study providing. It deals with the laboratory of power electronics, the laboratory of digital image processing and laboratories of digital signal processors and industrial programmable logic controllers.

2 Staff of the Department

Head of the Department	: Pavol Špánik
Vice-head of the Department	: Branislav Dobrucký
Secretary for Education	: Anna Kondelová
Administrative Support	: Andrea Prandová

2.1 Sections of the Department

2.1.1 Section of Electronics and Control Systems

Head of the Section	: Jozef Čuntala
Professors	: Branislav Dobrucký, Pavol Špánik
Visiting Professors	: Alfio Consoli
Associate Professors	: Jozef Čuntala, Miroslav Hrianka, Libor Hargaš
Research Fellows	: Róbert Šul, Viktor Bobek, Peter Drgoňa, Michal Frivaldský, Dušan Koniar
Senior Lecturers (with PhD)	: Rastislav Pavlanin
Senior Lecturers (without PhD)	: Ivan Kožehuba, Jozef Lakatoš, Peter Šindler, Anna Kondelová

2.1.2 Section of Mechatronic Systems and Industry Automation

Head of the Section	: Fedor Kállay
Professors	: Fedor Kállay
Associate Professors	: Pavel Pavlásek
Research Fellows	: Marek Paškala
Senior Lecturers (with PhD)	: Anna Príkopová

2.1.3 Postgraduate Students

Internal (full-time)	: Peter Fibich, Ján Kašša, Ondrej Hock Michal Praženica, Martin Priečinský, Miloslav Kolpach, Peter Hurtuk, Jozef Kandráč, Stanislav Štofán, Roman Radvan (from 2 nd September 2010), Andrej Rybovič (from 2 nd September 2010), Tomáš Kapusta (from 2 nd September 2010), Jozef Sedlák (from 2 nd September 2010), Slavomír Kaščák (from 2 nd September 2010)
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External (part-time) : Peter Šindler, Anna Kondelová, Marek Paškala,
 Branislav Zigmund, Marcel Pčola,
 Ján Duda, Peter Čerňan, Vlastimil Baculák,
 Peter Jeck, Erika Polčanová, Ing. Zuzana Ridzoňová,
 Ing. Daniela Hívešová, Ing. Marián Novota, Anna Holásková

3 Teaching

3.1 Courses in Bachelor and Master Degree Programmes

3.1.1 Bachelor Degree Programmes

Code Title	Lessons-Seminars-Exercises		
	Semester	hours/week	Teachers
<i>Courses at the Faculty of Electrical Engineering</i>			
31302 Electronics I	3	2-0-3	Čuntala
32300 Distributed Systems in Industry Automation	3	2-0-2	Kállay
31415 Electronics II	4	2-0-3	Hrianka
31426 Measurement of Non-Electric Parameters	4	2-0-2	Kállay
31427 Power Supplies	4	2-0-1	Špánik
31452 Microprocessor Technology	4	3-0-2	Čuntala
31456 Power Electronics	4	3-1-2	Špánik
31457 Measurement and Data Processing	4	2-0-2	Kállay
31524 Logical Circuits	5	3-0-2	Hrianka
31528 Multimedia Technology	5	2-0-1	Pavlásek
31542 Image Processing and Analysis	5	2-0-2	Hrianka
31552 Computer and Office Technique	5	2-0-1	Pavlásek
31556 Mechatronics	5	2-0-2	Pavlásek
31557 Automatic Regulation	5	2-2-0	Príkopová
31561 Automatic Control	5	2-0-1	Pavlásek
31563 Design of Electrical Equipments	5	1-1-3	Čuntala
31565 Electromagnetic Compatibility	5	2-2-0	Špánik
31602 Bachelor Project	6	0-0-6	Špánik
31628 Power Semiconductor Systems	6	3-1-1	Špánik

3.1.2 Master Degree Programmes

Code Title	Lessons-Seminars-Exercises		
	Semester	hours/week	Teachers
<i>Courses at the Faculty of Electrical Engineering</i>			
32107 Electromagnetic Compatibility in Electr.	1	2-2-0	Špánik
32111 Information and Industrial Networks	1	2-0-2	Kállay
32117 Design of ASIC	1	1-3-0	Čuntala

32119	Computers in Industrial Automation	1	2-0-2	Kállay
32126	Control of Electric actuators	1	3-1-1	Dobrucký
32129	Theory of Automatic Control 1	1	2-1-1	Príkopová
32136	Power Semiconductor Converters	1	3-0-3	Špánik
32200	Analysis and Synthesis of PE Circuits	2	2-2-0	Špánik
32211	Measurement and Digit. Data Processing	2	2-2-0	Pavlásek
32216	Microprocessors, Microcomputers and DSP	2	2-0-3	Dobrucký
32233	Microproc. and Microcomputer Systems	2	3-0-3	Dobrucký
32236	Theory of Automatic Control 2	2	2-1-1	Príkopová
31316	Seminar Project	3	0-4-0	Špánik
32300	Power Electronics Applications in ET & EE	3	3-0-1	Dobrucký
32324	Design and Construction of PE Systems	3	2-2-0	Špánik
32325	Design of ASIC	3	1-3-0	Čuntala
32330	Semiconductor Sensors	3	2-2-0	Kožehuba Lakatoš
32334	Semestral Project	3	0-4-0	Špánok
32341	Virtual Instrumentation	3	2-0-2	Hargaš
32402	Diploma Thesis PES			
32404	Diploma Seminar	4	0-2-0	Špánik
32405	Discrete Control of Power Systems	4	6-0-6	Dobrucký
32406	Dispatching Systems	4	4-0-4	Kállay
32416	Industrial Informatics	4	4-0-4	Kállay

Courses at the Faculty of Mechanical Engineering

2N125	Electronic Control Elements	1	2-2-0	Špánik
2N244	Exploitation of Computer Networks	1	2-0-2	Kállay
2N246	Microcomputer Technics	1	2-0-2	Čuntala
21N20	Information and Industry Networks	2	2-0-2	Kállay
2N197	Electronic Control Elements	2	2-2-0	Špánik
2N140	Converter Drives	3	2-2-0	Špánik
2N141	Control Microcomputers	3	2-2-0	Dobrucký

Courses for Foreign Students – Socrates/Erasmus Program

Course / Teacher / Student of University

31542 Image Processing and Analysis (*Hrianka*), Transport and Telecommunication Institute, Riga, Latvia

31452 Microprocessor Technology (*Čuntala*), Universitat Autònoma de Barcelona, ESP

31456 Power Electronics, (*Dobrucký*), Universitat Autònoma de Barcelona, ESP

4 Educational, Research and Scientific Projects

4.1 Internal Research Projects

Title: Sophistic-, electronic and mechatronics systems

Coordinator: Pavol ŠPÁNIK

Co-operators: Branislav Dobrucký, Pavel Pavlásek, Fedor Kállay, Anna Príkopová, Róbert Šul, Viktor Bobek, Michal Frivaldský, Peter Drgoňa, Rastislav Pavlanin, Marek Paškala, Roman Radvan, Jozef Čuntala, Anna Kondelová, Ivan Kožehuba, Peter Šindler, Jozef Lakatoš, Libor Hargaš, Dušan Koniar

4.2 National Projects

4.2.1 Research Projects Funded by the Scientific Grant Agency of the Slovak Republic (VEGA)

Title: Research and Modeling of Temperature Areas in Power Electronic Systems (VEGA 1/0704/08)

Coordinator: Miroslav Hrianka

Co-operators: Čuntala Jozef, Špánik Pavol, Príkopová Anna, Pavlásek Pavel, Kondelová Anna, Šindler Peter, Hargaš Libor, Kožehuba Ivan, Lakatoš Jozef, Paškala Marek, Pavlanin Rastislav, Šul Róbert, Fibich Peter, Štofán Stanislav, Hurtuk Peter, Kandráč Jozef, Kulla Peter

Title: Research of Topology and Control of Power Electronic Supply System with Single-Phase HF Input and Two-Phase Orthogonal Output for Two-Phase SM/IM Electrical Motors (VEGA 1/0474/09)

Coordinator: Branislav Dobrucký

Co-operators: Špánik Pavol, Kállay Fedor, Pavlásek Pavel, Príkopová Anna, Šindler Peter, Paškala Marek, Pavlanin Rastislav, Bobek Viktor, Šul Róbert, Kašša Ján, Praženica Michal

Title: Theoretical apparatus for analysis and evaluation of hazards of telematic systems at transport (VEGA 1/0023/08)

Coordinator: Juraj Spalek

Co-operators: Fedor Kállay, Anna Príkopová, Branislav Dobrucký

Title: The Development of Mechanical Subsystem of Tripod and Hybrid Kinematic Structure for Application in the Area of Production Machines and Robots (VEGA 1/0207/10)

Coordinator: Viera Poppeová

Co-operators: Peter Šindler

4.2.2 Projects Funded by the Cultural & Education Grant Agency (KEGA)

Title: The Development of Specialized Unit for Teaching of Parallel Kinematic Structures Application in the Area of Production Machines and Robots (KEGA 086-051ŽU-4/2010)

Coordinator: Viera Poppeová

Co-operators: Peter Šindler

4.2.3 Research Projects Funded by the Slovak Research and Development Agency (APVV)

Title: Development of a High-Voltage Modul Assigned for Traction Applications (APVV-0535-07)

Coordinator: Michalík Ján

Co-operators: Pavol Špánik, Branislav Dobrucký, Jozef Čuntala, Róbert Šul, Libor Hargaš, Marek Paškala, Rastislav Pavlanin, Michal Frivaldský, Peter Drgoňa, Dušan Koniar, Miroslav Hrianka

Title: Galvanotechnological System with Synchronous Rectifier (APVV VMSP-P-0085-09)

Coordinator: Ján Rehuš, Jozef Čuntala

Co-operators: Pavel Pavlásek, Marek Paškala, Libor Hargaš, Peter Hurtuk, Peter Drgoňa, Roman Radvan, Michal Frivaldský

Title: High Frequency Power Electronic Converters (APVV LPP-0366-09)

Coordinator: Pavol Špánik

Co-operators: Jozef Kandráč, Martin Priečinský

4.2.4 Projects of European Structural Funds

Title: CEEEX1 (ITMS 26220120003) Centre of Power Electronic Systems and Materials for their Components, Operational Program Research and Development

Coordinator: Pavol Špánik, Branislav Dobrucký

Co-operators: Jozef Čuntala, Róbert Šul, Miroslav Hrianka, Peter Šindler, Peter Drgoňa, Rastislav Pavlanin, Viktor Bobek, Anna Príkopová, Marek Paškala, Libor Hargaš, Michal Frivaldský, Andrea Prandová

Title: CEEEX2 (ITMS 26220120046) Centre of Power Electronic Systems and Materials for their Components, Operational Program Research and Development II

Coordinator: Pavol Špánik, Branislav Dobrucký

Co-operators: Jozef Čuntala, Peter Šindler, Peter Drgoňa, Anna Príkopová, Marek Paškala, Libor Hargaš, Michal Frivaldský

Title: CEKR1 (ITMS 2622010004) Centre for Experimental and Clinical Respiriology I

Coordinator: Miroslav Hrianka

Co-operator: Libor Hargaš, Dušan Koniar

Title: CEKR2 (ITMS 2622010034) Centre for Experimental and Clinical Respiriology II

Coordinator: Miroslav Hrianka

Co-operator: Libor Hargaš, Anna Simonová, Stanislav Štofán

Title: MKC (ITMS 26220220019) Ciliary Kinetics Measurement of Respiratory Tractus

Coordinator: Miroslav Hrianka

Co-operator: Libor Hargaš, Dušan Koniar

Title: Systemisation of Advanced Technology and Knowledge Transfer between Industrial Sphere and University Environment (ITMS 26110230004)

Coordinator: Milan Saga

Co-operator: Pavol Špánik, Branislav Dobrucký, Michal Frivaldský, Jozef Čuntala

Title: Flexible and Attractive Education at University of Žilina for Needs of Labour Market, and Knowledge Society (ITMS 26110230005)

Coordinator: Renáta Švarcová

Co-operator: Pavol Špánik, Branislav Dobrucký, Pavel Pavlásek, Libor Hargaš, Jozef Čuntala

Title: The Development of Parallel Kinematic Structures Prototypes for Application in the Area of Production Machines and Robots (ITMS 26220220046)

Coordinator: Viera Poppeová

Co-operator: Peter Šindler

4.3 International Projects

4.3.1 Socrates/Erasmus Projects

Title: Teachers and students mobilities within the frame of Socrates/Erasmus programmes

Coordinator: Marián DZIMKO University of Žilina

Co-operators: Branislav Dobrucký (UNICT Catania, IT), Pavol Špánik (UNICT Catania, IT), Miroslav Hrianka (RWTH Aachen, DE), Kirils Korolovs (Transport and Telecommunication Institute, Riga, Latvia), Andreu Urzaiz Abello (Universitat Autònoma de Barcelona, ESP), Anna Kondelová, Jozef Čuntala

4.3.2 CEEPUS II Projects

Title: From preparation to development, implementation and utilisation of joint programs in study area of Production Engineering – contribution to higher flexibility and mobility of students in central European region (CII-SK-0030-06-1011)

Coordinator: Ivan Kuric

Co-operators: Fedor Kállay

4.3.3 Custom-made Research Projects

Title: Analysis of heat fields in power electronic systems (P-103-0007/08)

Customer: Panasonic Electronic Devices Europe GmbH

Coordinator: Pavol Špánik

Co-operators: Jozef Čuntala, Branislav Dobrucký, Jozef Lakatoš, Libor Hargaš, Michal Frivaldský, Peter Drgoňa, Peter Fibich, Roman Radvan

5 Co-operation

5.1 Co-operation Partners in Slovakia

EVPÚ a.s Nová Dubnica

Panasonic Electronic Devices Slovakia, s.r.o., Trstená

NES Nová Dubnica

Power-One, Dubnica nad Váhom

Siemens s.r.o., Bratislava, Žilina

Vedeckotechnologický park, Žilina

LJF Martin, UK Bratislava

ABB Slovakia, Bratislava

DataTherm, s.r.o. Žilina

Robotec s.r.o. Sučany

CONTINENTAL MATADOR s.r.o. Púchov

HAGARD: HALL a.s. Nitra, Žilina

IPESoft s.r.o. Žilina

Považská cementáreň a.s., Ladce

Energo controls s.r.o. Žilina

ControlTech, s.r.o. Trnava

Schneider Electric Slovakia, s.r.o., Bratislava, Žilina

ELTECO, a.s. Žilina

VUVT Engineering, a.s. Žilina

MACRO, s.r.o., Žilina
 SSE, a.s. Žilina
 EMERSON a.s. Nové Mesto n. Váhom
 Súkromná zvaračská škola, Žilina
 Department of el. engineering, mechatronics and industrial engineering, FEI TU Košice
 Department of mechatronic systems, FM TUAD, Trenčín
 Department of automation and regulation, FEI STU, Bratislava
 Department of electric machines and apparatus, FEI STU, Bratislava
 INA Kysuce, a.s. Kysucké Nové Mesto
 KIA Motors, s.r.o. Žilina
 GRANIT, s.r.o. Žilina
 AAUTO, s.r.o. Žilina
 VIP AUTO, s.r.o. Žilina
 TEAM DC, Bratislava
 GS1 Slovakia, Žilina
 Htest Slovakia, Banská Bystrica
 SSC, Bratislava
 NDS, Bratislava

5.2 International Co-operation Partners

Università degli studi di Catania, IT, DIEES, prof. Alfio Consoli
 Panasonic Electronic Devices Co., Ltd., Kadoma, JPN
 Panasonic Electronic Devices Europe GmbH, Lüneburg, DE
 Politecnico di Bari, IT, DEE, prof. Francesco Cupertino
 University of Nottingham, UK, prof. Greg ASHER, prof. Pat Wheeler
 University of Picardie – Jules Verne, Amiens, FR, prof. Gérard-André Capolino
 National University of Ireland, Dublin, IRL, prof. Annroi de Paor
 University of Porto, PT, prof. Maciel Barbosa
 Technische universität Dresden, DE, Dr. Peter Büchner
 Technische universität Darmstadt, DE, prof. Andreas Binder
 Technikum Wien, AT, prof. Felix Himmelstoss
 Technische universität Bochum, DE, prof. Andreas Steimel
 National Instruments Czech Republic, s.r.o., CZ, Ing. Roman Vala
 Technical Univesity RWTH Aachen, DE, prof. Blazek Vladimir
 Politechnika Radomska, PL, prof. Miroslav Luft, doc. Elzbieta Szychta
 XILINX USA, University program
 Laboratory Imaging, s.r.o. Praha, CZ
 Humusoft s.r.o. Praha, CZ, Karel Bittner
 TU – VŠB Ostrava, CZ, prof. Pavel Brandstetter, prof. Petr Chlebiš
 FAIRCHILD Semiconductor - Power Franchise, EU
 FreeScale s.r.o., Rožňov pod Radhoštěm, CZ
 B&R Automatizace, Brno, CZ
 Rockwell Automotion s.r.o., Praha, CZ
 Technological & Cultural Park of Lavrion, GR
 TIM Science Park, Timisoara, RO
 University Ioan Slavici, Timisoara, RO
 Technische Universität Graz, AT, FE, IEL, Dr. Manfred Sakulin
 The University of Strathclyde, Glasgow, UK

5.3 Visitors to the Department

<i>Name</i>	<i>Institution</i>	<i>Length of stay</i>
Dumitru TUCU	TIM Science Park, Timisoara, RO	1 day

Dumitru MERIE	TIM Science Park, Timisoara, RO	1 day
Maciel BARBOSA	University of Porto, PT	1 week
Elzbieta SZYCHTA	University of Radom, Poland	4 days
Miroslav LUFT	University of Radom, Poland	4 days
Minoru KUBO	Panasonic, Kobe, Japan	1 day
Nobuki ITOH	Panasonic, Germany	2 days
Norbert GLAPA	Panasonic, Germany	5 days
Miho NISHIGUCHI	Panasonic, Japan	5 days
Yoshikazu SUEHIRO	Panasonic, Japan	2 days
Nicky NAKAJIMA	Panasonic, Germany	2 days
Koichi KUBOYA	Panasonic, Germany	4 days

5.4 Visits to Foreign Institutions

<i>Name</i>	<i>Institution</i>	<i>Length of stay</i>
Miroslav HRIANKA	RWTH – Aachen, DE	7 days
Branislav DOBRUCKÝ	UNICT Catania, IT	5 days
Pavol ŠPÁNIK	UNICT Catania, IT	10 days
Peter ŠINDLER	Hochschule Mittweida, DE	3 days

Participation in Foreign conferences:

Active:

Róbert ŠUL	MIC IASTED, Innsbruck, AT	5 days
Branislav DOBRUCKÝ	MIC IASTED, Innsbruck, AT	5 days
Branislav DOBRUCKÝ	IEEE, IECON, Phoenix, AR, USA	6 days
Branislav DOBRUCKÝ	MME IS10, Coimbra, PT	4 days
Branislav DOBRUCKÝ	TRANSCOMP, Politechnika Radomska, Zakopané, PL	1 day
Michal FRÍVALDSKÝ	TRANSCOMP, Politechnika Radomska, Zakopané, PL	1 day
Peter DRGOŇA	TRANSCOMP, Politechnika Radomska, Zakopané, PL	1 day
Peter HURTUK	TRANSCOMP, Politechnika Radomska, Zakopané, PL	1 day
Rastislav PAVLANIN	IEEE ISIE, Bari, IT	3 days
Libor HARGAŠ	Applied Electronics, ZČU, Plzeň	2 days
Dušan KONIAR	Applied Electronics, ZČU, Plzeň	2 days
Michal FRÍVALDSKÝ	Applied Electronics, ZČU, Plzeň	2 days
Peter DRGOŇA	Applied Electronics, ZČU, Plzeň	2 days
Stanislav ŠTOFAN	Applied Electronics, ZČU, Plzeň	2 days
Peter ŠINDLER	IWKM 2010, Mittweida, DE	3 days
Peter ŠINDLER	MOTSP 2010, Rovinj, CRO	4 days
<i>Paper without presentation:</i>		
Pavel PAVLÁSEK	INTED 2010, Valencia, ESP	3 days
Pavel PAVLÁSEK	EDULEARN 10, Barcelona, ESP	3 days
Pavel PAVLÁSEK	XV Conference Computer Applications in Electrical Engineering, Poznan, PL	3 days
Branislav DOBRUCKÝ	WMC, Orlando, USA	3 days
Branislav DOBRUCKÝ	WMC, Banff, CA	3 days
Branislav DOBRUCKÝ	SPEEDAM 10, Pisa, IT	3 days
Branislav DOBRUCKÝ	ISNCC, Lagow, PL	3 days
Branislav DOBRUCKÝ	CAEE 2010, Poznaň, PL	3 days
Branislav DOBRUCKÝ	CPEE 2010, Plzeň, CZ	3 days
Branislav DOBRUCKÝ	ERU 2010, Brno, CZ	3 days

6 Other Activities

6.1 Specialized Lectures, Courses Organized by the Department

Title of Lecture/Course: RFID Identifiers

Customer: GS1 SLOVAKIA, Department of Mechatronics and Electronics,
University of Žilina

Lecturer: Pavel Pavlásek

Date: 29th November to 3th December 2010

Title of Lecture/Course: Identification of Goods and Services by RFID

Customer: GS1 SLOVAKIA, Department of Mechatronics and Electronics,
University of Žilina

Lecturer: Miroslav Štaffen, Pavel Pavlásek

Date: 1st DECEMBER 2010

Title of Lecture/Course: Automatic Assembly Technologies, KIA Slovakia

Customer: Department of Mechatronics and Electronics, University of Žilina

Lecturer: Jozef Bačé, Pavel Pavlásek

Date: 2nd November 2010

Title of Lecture/Course: Digital Measurement and Data Processing, HTest Slovakia

Customer: Faculty of Electrical Engineering, University of Žilina

Lecturer: Pavel Pavlásek, Anna Príkopová, Eva Marhoferová

Date: May 2010

Competition: The Technical Idea of the Year

Participants: Secondary school students

Organizers: Róbert Šul, Pavol Špánik, Jozef Čuntala, Jozef Lakatoš, Peter Šindler, Viktor Bobek

Date: 7th April 2009

6.2 Invited Lectures/Papers

Title of Lecture: Research and Possibilities of Application of 2-phase Power Electronic Systems

Lecturer: Branislav Dobrucký, Michal Praženica

Where/Date: Science workshop of Mechatronic Systems Research Centre / February 2010

6.3 Membership in International Institutions/Committees

Branislav Dobrucký

- Member of IEEE IE Society
- Member of International Association for Science and Technological Development (IASTED), CA
- Reviewer for Publishing Company Elsevier, NL
- Reviewer for EPE journal, Brussels, BE
- Steering Programme Committee of International MIC IASTED 2007-2010 Conference
- Steering Programme Committee of International IASTED CA 2010 Conference, Banff, Kanada
- Steering Programme Committee of International IEEE IECON 2010 Conference, Phoenix, USA

	-Steering Programme Committee of International WMC 2010 Conference, Orlando, USA
	-Steering Programme Committee of International EPE-PEMC 10 Conference, Ohrid, Macedonia
Pavel Pavlásek	-Member of the Editorial Board of the Strojárstvo (Machinery) Journal
	-Member of Brandon Hall Excellence in Learning Technology Awards
	-Expert of FP7 Programme NMP – 2007 – 3.4 – 1
	-Expert of Romanian Ministry of Education, Research and Youth, Romania, (Program SOPIEC-A2-O2.2.1-2007-1+Capacities-I-2007-2)
Pavol Špánik	-Member of IEEE IE Society
	-Member of the Scientific Board of FEI – TU Ostrava, CZ
	- Member of the Electronics Committee, FEI – TU Ostrava, CZ
Michal Frivaldský	- Member of IEEE IE Society
Peter Drgoňa	- Member of IEEE IE Society
Jozef Kandráč	-Student member of IEEE IE Society
Peter Hurtuk	-Student member of IEEE IE Society
Martin Priečinský	-Student member of IEEE IE Society

6.4 Membership in National Institutions/Committees

Branislav Dobrucký	-Member of the Common Committee for Electrical Engineering
	-Steering Programme Committee of ALER 2010 Conf.
	-Steering Programme Committee of ELEKTRO 2010 Conf.
Pavel Pavlásek	-Member of the Commission of Transport and Road Administration port (The Žilina Self-governing region)
	-Member of the Grant Commission for Education and Culture No.2 of the Ministry of Education of Slovak Republic
	-Member of the Commission of the Ministry of Education of Slovak Republic for Selection of the Aid of Candidates from Developing Countries and Compatriots
	-Representative of Regional Assembly of Žilina Self-governing Region
	-Director General of Slovak Road Administration
Pavol Špánik	-Member of the Common Committee for Mechatronics

6.5 Membership in University Boards

Branislav Dobrucký	-Member of the Editorial Board of ZU Scientific Journal – Communication – Scientific Letters
	-Editorial Board of Publication Committee of ZU
	-Member of the Scientific Board of FEE ZU
	-Member of the Electrical Engineering Committee, FEE ZU
	-Member of the Automation and Control Committee – Process Control, FEE ZU
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	-Member of the Electrical Engineering Committee, FEE ZU
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	-Member of the Automation and Control Committee – Process Control, FEE ZU
	-Member of the Measurement Technique Committee, FEI TU Košice
Libor Hargaš	-Member of the Academic Senate of FEE ZU

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