

STUDENT GRANT COMPETITION - Projects Accepted for Funding 2015

Project No.	Project title	Proposer	Guarantor
FACULTY OF TECHNOLOGY			
IGA/FT/2015/001	New Trends in the Field of Polymer Composite Materials and Tools for Their Processing	Ing. Ladislav Fojtl	doc. Ing. Soňa Rusnáková, Ph.D.
IGA/FT/2015/002	Emulsion systems with antibacterial properties	Ing. Veronika Mikulcová	doc. Ing. Věra Kašpárková, CSc.
IGA/FT/2015/004	Study of function of selected additives and biologically active substances in foodstuff	Ing. Mária Pišková	doc. Ing. František Buňka, Ph.D.
IGA/FT/2015/005	Synthesis and characterization of molecular components and study of properties of related supramolecular systems	Bc. Andrea Čablová	Mgr. Robert Vícha, Ph.D.
IGA/FT/2015/006	Influence of process on properties of modified polymers	Ing. Petr Krátký	doc. Ing. David Maňas, Ph.D.
IGA/FT/2015/007	Improving and adjusting the utility and processing properties and application potential of polymeric materials by optimisation of processing parameters and application of additives.	Ing. Matouš Huťta	doc. Ing. Pavel Mokrejš, Ph.D.
IGA/FT/2015/008	New reactions of 2-quinolones, quinolinediones, and indolones	Ing. Filip Křemen	prof. Ing. Antonín Klásek, DrSc.
IGA/FT/2015/009	Measurement of topographic surface changes of the skin after treatment with soft laser	Ing. Andrea Zapletalová	doc. Ing. Rahula Janiš, CSc.
IGA/FT/2015/010	The Determination of Selected Bioactive Substances in Plant Products	Mgr. Jana Orsavová	Ing. Jiří Mlček, Ph.D.
IGA/FT/2015/011	Research of the scanning and evaluation of the surface quality, non-normative method	Ing. Milena Kubišová	doc. Ing. Vladimír Pata Dr.
IGA/FT/2015/012	Extended Study of Processes Influencing a Quality of Foodstuffs and Environmental State	Ing. Karel Křížek	doc. RNDr. Jan Růžička, Ph.D.
IGA/FT/2015/013	Investigation of flow instabilities during production of flat polymer films	Ing. Tomáš Barbořík	prof. Ing. Martin Zatloukal, Ph.D., DSc.
IGA/FT/2015/014	The analysis and modification of adhesive properties of specific material systems	Ing. Jan Kotěna	Ing. Antonín Minařík, Ph.D.
CENTRE OF POLYMER SYSTEMS			
IGA/CPS/2015/001	Pressure array for detection of external stimuli and method of signal processing	Ing. Michal Kovář	doc. Ing. Petr Slobodian, Ph.D.
IGA/CPS/2015/002	Biological properties of polymers	Ing. Nikola Mikušová	doc. Ing. Petr Humpolíček, Ph.D.
IGA/CPS/2015/003	Development of Advanced Biodegradable and Antimicrobial Polymer Systems	Ing. Pavlína Holčápková	doc. Ing. Vladimír Sedlařík, Ph.D.
IGA/CPS/2015/005	Study of synthetic polymer and biopolymer blends	Ing. Lukáš Münster	doc. Ing. et Ing. Ivo Kuřitka, Ph.D. et Ph. D.

IGA/CPS/2015/006	Preparation of functional inks for material inkjet printing and their applications in printed electronics and sensors	Ing. Jan Mašík	doc. Ing. et Ing. Ivo Kuřitka, Ph.D. et Ph. D.
IGA/CPS/2015/007	Electrorheological fluids with enhanced sedimentation stability and dimorphic magnetorheological suspensions	Ing. Tomáš Plachý	doc. Dr. Ing. Vladimír Pavlínek
IGA/CPS/2015/008	Bacterial Cellulose based hydrogel electrolyte: A novel supercapacitor material	Haojie Fei MSc.	doc. Nabanita Saha M.Sc. Ph.D.
FACULTY OF MANAGEMENT AND ECONOMICS			
IGA/FaME/2015/020	TB IS (Thomas Bata Information System) in legacy to comparison with existing information systems	Ing. Jakub Chvátal	prog. Ing. Ladislav Buřita, CSc.
IGA/FaME/2015/021	Analysis of the bank approaches in the enforcement of receivables from subjects in insolvency	Ing. Mgr. Zuzana Fišerová	doc. Ing. Marie Paseková, Ph.D.
IGA/FaME/2015/022	The effect of demographic and sociological factors on the entrepreneurial orientation of entrepreneurs of small and medium-sized enterprises	Ing. Ludmila Kozubíková, Ph.D.	x
IGA/FaME/2015/023	Analysis of results of Lean Six Sigma Application for Process Optimisation in Business Service Centers (BSCs)	Oksana Petrivna Koval	prof. Ing. Felicita Chromjaková, Ph.D.
IGA/FaME/2015/024	Key factors influencing the decision-making process of clients in the market of selected health services	Doc. Ing. Pavla Staňková, Ph.D.	x
IGA/FaME/2015/025	The potential growth opportunities for financial performance of commercial banks in the context of SME's credit risk and customer satisfaction	Ing. Anna Chochořáková (pův. Ing. Vanda Nevřelová)	doc. Ing. Jaroslav Belás, Ph.D.
IGA/FaME/2015/026	Draft model of cluster organizations creation in the area of agriculture in the Czech Republic and in design area in Slovak Republic	Ing. Markéta Slováková	RNDr. Pavel Bednář, Ph.D., PaedDr. Pavla Břusková
IGA/FaME/2015/027	Identifying Impacts of Selected Methods and Techniques for Implementing Performance Management in Municipal Finances in the Czech Republic	Ing. Karel Kolman	Ing. Eliška Pastuszková, Ph. D.
IGA/FaME/2015/029	Trends within the Scientific Discipline of Enterprise Economics	Doc. Ing. Roman Zámečník, Ph.D.	x
IGA/FaME/2015/030	Evaluation model of ergonomic principles in Czech companies	Ing. Barbora Hamplová	doc. Ing. David Tuček, Ph.D.
IGA/FaME/2015/031	Creating Shared Value is used as a base of principles and rules of Bata management system and their implementation in the current business environment	Ing. Bc. Gabriela Končítíková	doc. Ing. Pavla Staňková, Ph.D.
IGA/FaME/2015/035	Economic sustainability of tourism companies	Ing. Zuzana Jurigová	doc. Ing. Zuzana Tučková, Ph.D.
IGA/FaME/2015/036	The impact of the concept of cluster policy on emergence and viability of cluster organizations	Ing. Martina Sopoligová	prof. Dr. Ing. Drahomíra Pavelková
IGA/FaME/2015/037	Impact of Fat Tax Introduction on the Morbidity, Mortality and associated economic costs to state budget in the Czech Republic and Slovakia	Mgr. Pavel Hait	prof. Dr. Ing. Drahomíra Pavelková
IGA/FaME/2015/039	Entrepreneurship, Branding and Relocalization Strategies for Supporting the Market Competitiveness of Small Businesses	Ing. Christian Nedu Osakwe	Doc. Ing. Miloslava Chovancová, CSc.
IGA/FaME/2015/040	Proposal of System of Targeted Support of Knowledge Sharing and its Impact on Financial Performance of Company	Ing. Zuzana Crhová	prof. Dr. Ing. Drahomíra Pavelková
IGA/FaME/2015/041	Optimization of quality management systems in healthcare and it improve to continuous increase efficiency with lean healthcare	Ing. Monika Kolková	doc. Ing. Petr Briš, CSc.

IGA/FaME/2015/043	Process management and its software support in hospitals in Czech republic	Ing. Tomáš Janů	Prof. Ing. Ján Košťuriak, Ph.D.
SVK/FaME/2015/001	Students' Research and Professional Activity SVOC 2015	Ing. Petr Novák, Ph.D.	x
SVK/FaME/2015/002	11th Annual DOKBAT – International Bata Conference for Ph.D. Students and Young Researchers	Ing. Petra Barešová, MSc.	doc. Ing. Pavla Staňková, Ph.D.
FACULTY OF MULTIMEDIA COMMUNICATIONS			
IGA/FMK/2015/003	The influence Of Advertising On the Value Orientation of Youth	Göttlichová Marcela, PaedDr.	x
IGA/FMK/2015/010	Creative Project Management: Development of new methods of research with the potential for practice	Soukalová Radomila, Ing. Ph.D.	x
IGA/FMK/2015/014	The visual culture of genetic prenatal screenings	Dvořáčková Markéta, Mgr.	doc. MgA. Jana Janíková, ArtD.
FACULTY OF APPLIED INFORMATICS			
IGA/FAI/2015/001	The Modelling of the Aerodynamics and Mechanics of a mini-UAV	Vogeltanz Tomáš	doc. Mgr. Roman Jašek, Ph.D.
IGA/FAI/2015/003	The possibility of reducing the need for electricity by controlling light intensity and heat grain in buildings	Vincenec Jiří	Ing. Martin Zálešák, CSc.
IGA/FAI/2015/006	Predictive Control of Processes with Fast Dynamics	Barot Tomáš	doc. Ing. Marek Kubalčík, Ph.D.
IGA/FAI/2015/007	Electrically conductive nanomaterials and their application to the design of microstrip antennas	Matyáš Jiří	prof. Ing. Karel Vlček, CSc.
IGA/FAI/2015/009	Nonlinear and predictive control	Talaš Stanislav	prof. Ing. Vladimír Bobál, CSc.
IGA/FAI/2015/010	Management and creation of multiplatform remote laboratories in Remlabnet system	Krbeček Michal	prof. Ing. František Schauer, CSc.
IGA/FAI/2015/011	Design Methods of Integrated Circuits and Systems (VHDL and SystemC)	Knot Tomáš	prof. Ing. Karel Vlček, CSc.
IGA/FAI/2015/012	Motion Detection	Kunčar Aleš	doc. Ing. Martin Sysel, Ph.D.
IGA/FAI/2015/013	Diagnostics of Intelligent Measureserver unit for remote experiments	Gerža Michal	prof. Ing. František Schauer, CSc.
IGA/FAI/2015/014	Research of the Mobile Botnets Running on Android Devices	Oulehla Milan	doc. Ing. Zdeněk Úředníček, CSc.
IGA/FAI/2015/015	The draft of analytical tool for evaluating the safety of objects	Procházková Lucia	Ing. Martin Hromada, Ph.D.
IGA/FAI/2015/020	Development of a Universal Integrated System	Hanáček Adam	doc. Ing. Martin Sysel, Ph.D.
IGA/FAI/2015/021	Remote laboratory administration and failure elimination in virtualization environment REMLABNET	Beňo Pavel	prof. Ing. František Schauer, CSc.
IGA/FAI/2015/022	Draft simulation using renewable resources in building technology and verify the effectiveness of photovoltaic panels depending on atmospheric conditions	Chrobák Pavel	Ing. Martin Zálešák, CSc.
IGA/FAI/2015/023	Power resource for energy harvesting systems in buildings	Opluštil Michal	Ing. Martin Zálešák, CSc.
IGA/FAI/2015/025	Forecasting system of convective precipitation	Šaur David	doc. Ing. Luděk Lukáš, CSc.
IGA/FAI/2015/027	Structural Design actuators and Motion Control of an Autonomous Service Robotic Manipulator System for Image Scanning Cabin Baggage Compartments of Vehicles Type of Train, Plane.	Struška Jan	doc. Ing. Zdeněk Úředníček, CSc.
IGA/FAI/2015/031	Approaches to improve security of smart devices within Internet of Things	Špaček František	doc. Ing. Roman Šenkeřík, Ph.D.

IGA/FAI/2015/037	DNS Analysis for Detection of Malware Command and Control Servers and Fast-flux Botnets	Holík Radovan	doc. Mgr. Roman Jašek, Ph.D.
IGA/FAI/2015/038	Propose modifications to existing solutions VRP problem using artificial intelligence to increase their speed and efficiency	Kolek Jan	doc. Mgr. Roman Jašek, Ph.D.
IGA/FAI/2015/039	Comparison of methods of multi-criteria evaluation with user ratings of ITIL tools	Králík doc. Ing. Luděk Lukáš, CSc.	doc. Ing. Roman Šenkeřík, Ph.D.
IGA/FAI/2015/040	Design of Autonomous Wheeled Service Robotic System for Identifying and Extinguishing Fires in Indoor Environments.	Struška Martin	doc. Ing. Zdeněk Úředníček, CSc.
IGA/FAI/2015/042	The analysis of cyber security in an organization with a focus on ICS	Vávra Jan	Ing. Martin Hromada, Ph.D.
IGA/FAI/2015/043	Testing of electromagnetic susceptibility of electronic equipment to the high-frequency electromagnetic fields	Urbančoková Hana	Ing. Jan Valouch, Ph.D.
IGA/FAI/2015/047	Variable Structure in Block Cipher Mode of Operation	Žáček Petr	doc. Mgr. Roman Jašek, Ph.D.
IGA/FAI/2015/049	Analysis and synthesis of 3D motion sensors	Marčaník Miroslav	prof. Ing. Jiří Dvořák, CSc.
IGA/FAI/2015/050	Efectivity of production and logistics processes	Jemelka Milan	Ing. Bronislav Chramcov, Ph.D.
IGA/FAI/2015/053	Edge Detection in Difficult Visible Conditions	Mališka David	Ing. Pavel Pokorný, Ph.D.
IGA/FAI/2015/055	Low-level socket server architecture for device monitoring	Šípek Jan	Ing. Tomáš Dulík, Ph.D.
IGA/FAI/2015/056	Data management for Internet of Things	Sohlich Radomír	Ing. Tomáš Dulík, Ph.D.
IGA/FAI/2015/058	Global diagnostics of remote laboratories domains	Hrubá Michaela	doc. Ing. Miroslava Ožvoldová, CSc.
IGA/FAI/2015/060	Designing the measurement of distance and controlling the model of service robot	Opluštil Milan	doc. Ing. Zdeněk Úředníček, CSc.
IGA/FAI/2015/062	Usage of Software Engineering Methods and Artificial Intelligence for Automated Evaluations of Student Tasks	Čápek Petr	doc. Ing. Roman Šenkeřík, Ph.D.
IGA/FAI/2015/063	BCI Architecture Modeling	Švejda Jaromír	doc. Mgr. Roman Jašek, Ph.D.
IGA/FAI/2015/065	Analyse and optimalization process with big dates	Omar M. Ahmad	doc. Mgr. Roman Jašek, Ph.D.
IGA/FAI/2015/067	A proposal of a model of an autonomously acting and cooperating criminal group for the use in the simulation in PSI	Svoboda Petr	doc. Ing. Luděk Lukáš, CSc.
REGIONAL RESEARCH CENTRE CEBIA-Tech			
IGA/CebiaTech/2015/002	DESIGN AND IMPLEMENTATION OF CALIBRATION TESTS FOR THE DOUBLE CHAMBER CALORIMETER – verification using enthalpic method and comparison with the simulation	Sehnálek Stanislav	Ing. Martin Zálešák, CSc.
IGA/CebiaTech/2015/004	Estimation of Material Permittivity in Free Space by Means of Inverse Problem Techniques	Tomášek Pavel	doc. RNDr. Vojtěch Křesálek, CSc.
IGA/CebiaTech/2015/005	Embedded device signal processing - Real-time source localization	Papež Martin	prof. Ing. Karel Vlček, CSc.
IGA/CebiaTech/2015/024	Factors Influencing Information Environment of the Security Forces Members	Padúchová Alena	doc. Ing. Luděk Lukáš, CSc.
IGA/CebiaTech/2015/026	Alternative approach to algorithms of predictive control using methods of artificial intelligence	Antoš Jan	doc. Ing. Marek Kubalčík, Ph.D.
IGA/CebiaTech/2015/028	Creating a 3D model space using ultrasonic sensors to control the movement of wheeled robot	Popelka Miroslav	doc. Ing. Zdeněk Úředníček, CSc.

IGA/CebiaTech/2015/029	Research of Ethical Hacking Possibilities for Analysis of BYOD Security in the Companies	Nožička Jakub	doc. Mgr. Roman Jašek, Ph.D.
IGA/CebiaTech/2015/032	System for a remote control and monitoring of production processes	Plšek Stanislav	prof. Ing. Vladimír Vašek, CSc.
IGA/CebiaTech/2015/033	Artificial intelligence for data analysis system RAMLABNET	Pálka doc. Ing. Luděk Lukáš, CSc.	prof. Ing. František Schauer, CSc.
IGA/CebiaTech/2015/034	The development of web application supporting of RAD principle for data collection and research of analytical programming method for effort estimation in software engineering	Urbánek Tomáš	Ing. Radek Šilhavý, Ph.D.
IGA/CebiaTech/2015/035	Analysis of log files of remote experiments in the system REMLABNET	Špiláková Petra	prof. Ing. František Schauer, CSc.
IGA/CebiaTech/2015/036	Extending the methodology of Role-Based Access Control for implementation in the MVC architecture of object-oriented projects	Štípek Petr	doc. Ing. Roman Šenkeřík, Ph.D.
IGA/CebiaTech/2015/041	Research on acoustic parameters of space, with a focus on optimizing the diffusion properties of the chamber Laboratory of Environmental Engineering	Drábek Pavel	Ing. Martin Zálešák, CSc.
IGA/CebiaTech/2015/044	Analysis of the physiological similarities among family members	Talandová Hana	doc. Mgr. Milan Adámek, Ph.D.
IGA/CebiaTech/2015/045	Diagnostics of ultrathin metal films using atomic force microscopy	Martínek Tomáš	doc. RNDr. Vojtěch Křesálek, CSc.
IGA/CebiaTech/2015/046	Design of hybrid classification algorithms for large data sets	Beltran Prieto L. Antonio	doc. Ing. Zuzana Komínková Oplatková, Ph.D.
IGA/CebiaTech/2015/048	The percolation behavior of ultrathin metal films	Kudělka Josef	doc. RNDr. Vojtěch Křesálek, CSc.
IGA/CebiaTech/2015/051	Insider Threat in Relation to Critical Infrastructure	Kadleček Petr	Ing. Martin Hromada, Ph.D.
IGA/CebiaTech/2015/052	Analysis of users fault in work with information systems	Zábranský Ondřej	doc. Ing. Luděk Lukáš, CSc.
IGA/CebiaTech/2015/054	Modelling Computational Decision making with Artificial Intelligence Tools	Afful-Dadzie Eric	doc. Ing. Zuzana Komínková Oplatková, Ph.D.
IGA/CebiaTech/2015/057	Adaptive evolutionary techniques with the elements of Swarm Intelligence and deterministic chaos	Pluháček Michal	doc. Ing. Roman Šenkeřík, Ph.D.
IGA/CebiaTech/2015/059	Multi-sensor system with focus on computer vision	Došek Roman	Ing. Tomáš Dulík, Ph.D.
IGA/CebiaTech/2015/061	Analysis and optimization of evolutionary algorithms using complex networks analysis tools	Janošík Jakub	doc. Ing. Roman Šenkeřík, Ph.D.
IGA/CebiaTech/2015/064	Design and construction of the monitoring system for crisis situations	Sedlář Martin	doc. Mgr. Milan Adámek, Ph.D.
IGA/CebiaTech/2015/066	Different Approaches to Quality of Video Surveillance System Evaluation Comparison	Ševčík Jiří	doc. Ing. Luděk Lukáš, CSc.
IGA/CebiaTech/2015/068	Determining position of an object and its usage in GIS	Pohuba Daniel	Ing. Tomáš Dulík, Ph.D.
FACULTY OF HUMANITIES			
IGA/FHS/2015/001 - canceled	The 1st grade elementary school pupils' perception to ethno-cultural differences in the Zlín region	Mgr. Jiřina Šimarová	doc. Mgr. Martina Cichá, Ph.D.

IGA/FHS/2015/002	Emotional and social needs of individually integrated students with physical disability in the high-school environment	Mgr. Magdalena Hanková	doc. Mgr. Soňa Vávrová, Ph.D.
IGA/FHS/2015/003	Social and intrapersonal context of multicultural learning of high school students	Mgr. Jakub Hladík, Ph.D.	x
IGA/FHS/2015/004	Professionalisation of pre-service pre-school teachers.	doc. PaedDr. Adriana Wiegerová, Ph.D	x
IGA/FHS/2015/005	The Perception of Threatening Phenomenons among Gifted Children	Mgr. Eva Machů, Ph.D.	x
IGA/FHS/2015/006	Cultural identity as part of civic competencies in education of secondary school students.	PhDr. Helena Skarupská Ph.D.	x
IGA/FHS/2015/007	Overweight and Obesity of Young School Pupils in the Context of Selected Performance and Psychosocial Characteristics: the Utilization of Knowledge in Work of Social Educator	PhDr. Hana Včelařová	x
IGA/FHS/2015/008	The determinants influencing the teachers' educational work in the context of education of socially disadvantaged pupils on the educational level ISCED 1 and 2	Mgr. Anna Šafránková	x
IGA/FHS/2015/009	University Nursery School - case study	doc. PaedDr. Jana Majerčíková Ph.D.	x
IGA/FHS/2015/010	Support for Cultivation of social relationships in a group of children through physical activities	Mgr. Et Mgr. Viktor Pacholík Ph.D.	x
SVK/FHS/2015/006	Young researchers forum	doc. PaedDr. Adriana Wiegerová, Ph.D	