

**STUDENT GRANT COMPETITION - IGA - Projects Accepted for Funding in 2022**

Project No.	Project title	Proposer	Guarantor
<b>FACULTY OF TECHNOLOGY</b>			
IGA/FT/2022/001	Rotaxane-based artificial enzymes	Ing. Václav Kolařík	doc. Mgr. Robert Vícha, Ph.D.
IGA/FT/2022/002	Injection molding, milling, 3D printing and the influence of input parameters on the final product	Ing. Jiří Vaněk	prof. Ing. Michal Staněk, Ph.D.
IGA/FT/2022/003	Natural and synthetic polymers - their preparation, properties and use	Ing. David Jaška	prof. Ing. Roman Čermák, Ph.D.
IGA/FT/2022/004	The chemical composition and monitoring of technological and storage processes in selected food commodities	Ing. Veronika Ševčíková	prof. Ing. Jiří Mlček, Ph.D.
IGA/FT/2022/005	Technological trends influencing the quality and properties of selected foods	Ing. Vendula Kůrová	doc. Ing. R.N. Salek, Ph.D.
IGA/FT/2022/006	Use of molecular biological and physico-chemical methods for the study and regulation of contaminants in the environment and food industry	Ing. Magda Bařínková	Ing. Pavel Pleva, Ph.D.
IGA/FT/2022/007	Innovative trends in the process of production, sensing and measuring the properties of elements based on polymer and fiber composites	Ing. Jan Ondřík	doc. Ing. Ondřej Bílek, Ph.D.
IGA/FT/2022/008	Applicability of the method for determining the gluten content and quality for the purposes of the non-traditional and minor materials' technological quality evaluation	Ing. Romana Šebestíková	doc. RNDr. Iva Burešová, Ph.D.
IGA/FT/2022/009	Materials based on hyaluronic acid and proteins for 3D printing from the point of view of theoretical and applied chemistry	Ing. Lenka Vítková	doc. Mgr. Aleš Mráček, Ph.D.
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<b>FACULTY OF MANAGEMENT AND ECONOMICS</b>			
IGA/FaME/2022/001	The relationship between economic policy uncertainty, investment behavior, and corporate innovation: A study on Visegrád economies	Abdul Quddus	prof. Ing. Drahomíra Pavelková, Ph.D.
IGA/FaME/2022/003	A Study on Budgetary Control and Budgetary Technology in Local Government of Developed and Emerging Economies	Giftý Kenetey	prof. Ing. Boris Popesko, Ph.D.
IGA/FaME/2022/004	The Key Valuation Drivers of a Business in the Modern Perspective	Ing. Jana Přílučková, Ph.D.	x
IGA/FaME/2022/005	Industry 4.0 and Circular Economy Adoption for Manufacturing and Logistics Processes	Luu Van Thanh	prof. Ing. Felicita Chromjaková, Ph.D.
IGA/FaME/2022/006	Economic research in the context of the Southeast Asia	Thi Ngoc Diep Nguyen	Ing. Lubor Homolka, Ph.D.
IGA/FaME/2022/007	An investigation of housing affordability in the regions of the Czech Republic: Implications of income segregation, tourism & short-term rentals, and smart cities	Ing. Martina Rosíková	doc. Ing. Zuzana Dohnalová, Ph.D.
IGA/FaME/2022/008	Research and implementation of big data-based business intelligence solutions for transformation of traditional firm into digitalized one	Sayed Muhammad Shariq	prof. Ing. Rastislav Rajnoha, Ph.D.
IGA/FaME/2022/010	Influencer Marketing and intercultural differences across generations with the emphasis on neuromarketing	Gonbolor Orkhon	doc. Ing. Alena Klapalová, Ph.D.
IGA/FaME/2022/011	Equivalent Units Costing and Pharmaceuticals' Pricing for Entrepreneurial Decision-Making in the Czech Republic and the Slovak Republic.	Salem Udoh	prof. Ing. Boris Popesko, Ph.D.
IGA/FaME/2022/012	FACTORS INFLUENCING FAMILY ENTREPRENEURSHIP INTENTION IN ECO-TOURISM	Sandeep Kumar Dey	doc. Ing. Zuzana Tučková, Ph.D.
IGA/FaME/2022/013	Assessing the performance and technological uses of Agricultural SMEs within the COVID-19 pandemic in Central Europe	Ali Sufyan	doc. Ing. Petr Novák, Ph.D.
SVK/FaME/2022/001	18th International Bata Conference for Ph.D. Students and Young Researchers (DOKBAT 2022)	Ing. Magdaléna Rybová	Ing. Pavel Ondra
SVK/FaME/2022/002	Student conference 2022	doc. Ing. Petr Novák, Ph.D.	-

FACULTY OF APPLIED INFORMATICS			
IGA/FAI/2022/002	Methodology of the medical facility in the event of an epidemic and an armed attack	Blahová Marta, Ing.	doc. Ing. Martin Hromada, Ph.D.
IGA/FAI/2022/003	Support for Integrated Rescue System Exercises and Other Population Protection Bodies	Džermanský Martin, Ing.	doc. Ing. Martin Hromada, Ph.D.
IGA/FAI/2022/004	Design of a mathematical model of nanoantennas using evolutionary algorithms	Kavánková Iva, Ing.	Ing. Stanislav Kovář, Ph.D.
IGA/FAI/2022/005	Optimization of university security management	Dostálová Petra, Ing.	doc. Ing. Martin Hromada, Ph.D.
IGA/FAI/2022/006	Application of physiodetection to the environment of virtual reality in order to clarify crime and profile people	Sousedíková Lucie, Ing.	doc. Mgr. Milan Adámek, Ph.D.
IGA/FAI/2022/008	Time delay as a desirable and undesirable component of industrial and cyberphysical systems	Strmiska Martin, Ing.	doc. Ing. Libor Pekař, Ph.D.
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REGIONAL RESEARCH CENTRE CEBIA-Tech			
IGA/CebiaTech/2022/001	Methods of Softcomputing with Applications	Ulrich Adam, Ing.	doc. Ing. Zuzana Komínková Oplatková, Ph.D.
IGA/CebiaTech/2022/002	Hydrolysis of lipid-rich waste within the scope of anaerobic digestion – evaluation of industrial sludge with temperature variation	Samuel Emebu MSc.	Ing. Jiří Pecha, Ph.D.
IGA/CebiaTech/2022/004	Modification of properties of 3D models of objects in an interactive virtual reality environment	Drofová Irena, Ing.	doc. Mgr. Milan Adámek, Ph.D.
IGA/CebiaTech/2022/005	Educational Support of the Human Factor for the Protection of Soft Targets	Kotek Lukáš, Ing.	doc. Ing. Martin Hromada, Ph.D.
IGA/CebiaTech/2022/006	Research in the field of physiological and neurophysiological signal processing	Žabčíková Martina, Ing.	prof. Ing. Roman Jašek, Ph.D.
IGA/CebiaTech/2022/007	Data analysis methods to enhance the security of the cyberspace	Měsíček Pavel, Ing.	Ing. David Malaník, Ph.D.
SVK/CebiaTech/2022/001	Support of student research activities at FAI	doc. Ing. Bronislav Chramcov, Ph.D.	doc. Ing. Bronislav Chramcov, Ph.D.
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FACULTY OF MULTIMEDIA COMMUNICATIONS			
IGA/FMK/2022/001	Time-lapse documentary film Return to Life	MgA. Adam Černich	doc. Mgr. MgA. Jan Gogola
IGA/FMK/2022/005	Inclusive design process: how to combine inclusive design principles and Design Thinking methodology for designing digital products and services without barriers	Mgr. Tereza Kosnarová Venerová	prof. Mgr. Peter Štarchoň, Ph.D.
IGA/FMK/2022/008	Born of sand and Sun	BcA. Petra Bašňáková	doc. MgA. Jaroslav Prokop
IGA/FMK/2022/010	Development of didactic tool using augmented reality	Ing. Štěpán Dlabaja	doc. MgA. Martin Surman
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FACULTY OF HUMANITIES			
IGA/FHS/2022/001	Determinants of self-regulated learning of high school students	Mgr. Julie Junaščíková	Mgr. Jakub Hladík
IGA/FHS/2022/002	Prediction of the degree of independent student work using digital means in a virtual learning environment	Mgr. Juraj Obonya Ph.D.	x
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FACULTY OF LOGISTIC AND CRISIS MANAGEMENT			
IGA/FLKŘ/2022/001	Animal evacuation	Ing. Jan Strohmandl, Ph.D.	x
SVK/FLKŘ/2022/001	Student and Scientific Professional Activity Faculty of Logistics and Crisis Management 2022	Ing. Eva Hoke, Ph.D.	x
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## CENTRE OF POLYMER SYSTEMS

IGA/CPS/2022/001	Preparation of advanced biomaterials and their application	Ing. Eliška Daňová	doc. Ing. Zdenka Čapáková, Ph.D.
IGA/CPS/2022/002	Preparation and characterization of advanced nanocomposite materials	Ing. Alžběta Vávrová	doc. Ing. et Ing. Ivo Kuřitka, PhD. et Ph.D.
IGA/CPS/2022/003	Advanced usage of residual materials from agricultural production	Ing. Jakub Klaban	prof. Ing. Vladimír Sedlařík, Ph.D.
IGA/CPS/2022/004	Magneto-responsive System	MSc. Andrei Munteanu	doc. Ing. Michal Sedlačík, Ph.D.
IGA/CPS/2022/005	The influence of functional fillers on selected processing properties of polymer systems	Ing. Danila Gorgol	Ing. Miroslav Mrlík, Ph.D.
IGA/CPS/2022/006	Synthesis of Biomineralized Graphene-based Nanomaterial for Healthcare	MSc. Adam Aberra Challa	doc. Nabanita Saha
SVK/CPS/2022/001	Student's scientific conference IGA CPS 2022	doc. Ing. et Ing. Ivo Kuřitka, PhD. et Ph.D.	x

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