

STUDENT GRANT COMPETITION - IGA - Projects Accepted for Funding in 2020

Project No.	Project title	Proposer	Guarantor
FACULTY OF TECHNOLOGY			
IGA/FT/2020/001	Study on intermolecular interactions within multicomponent systems	Ing.Aneta Závodná	doc. Mgr. Robert Vícha, Ph.D.
IGA/FT/2020/002	Preparation of gelatines/hydrolysates from poultry by-products, testing of their properties and application design	Ing. Petr Mrázek	doc. Ing. Pavel Mokrejš, Ph.D.
IGA/FT/2020/003	Properties of polymer materials processed by injection moulding and 3D printing	Ing. Petr Fluxa	doc. Ing. Michal Staněk, Ph.D.
IGA/FT/2020/004	Using elements Industry 4.0 for prototyping and composition of the polymer, composite materials, and machinability testing.	Ing. Jan Ondřík	doc. Ing. Ondřej Bílek, Ph.D.
IGA/FT/2020/005	Preparation of structured materials based on biopolymers	Ing. Markéta Kadlečková	Ing. Antonín Minařík, Ph.D.
IGA/FT/2020/006	Effect of Selected Factors on Food Properties and Quality	Mgr. Richard Adámek	doc. Ing. Vendula Pachlová, Ph.D.
IGA/FT/2020/007	Synthesis and study of chemical reactivity of nitrogen containing heterocycles derivatives	Ing. Zuzana Máčalová	doc. Ing. Stanislav Kafka, CSc.
IGA/FT/2020/008	Influence of crystallization selected engineering polymers	Ing. Ondřej Mrhálek	prof. Ing. Petr Svoboda, Ph.D.
IGA/FT/2020/009	Undesirable Substances Occurrence in the Food and in the Environment – Possibilities of their Reduction	Mgr. Lucie Berčíková	doc. RNDr. Leona Buňková, Ph.D.
IGA/FT/2020/010	Nutritional parameters of non-traditional ingredients	Ing. Kristýna Šťastná	doc. Ing. Daniela Sumczynski Ph.D
IGA/FT/2020/011	Observation of structure and properties of polymers containing heterogeneous particles	Ing. Soňa Zenzingerová	doc. Ing. Roman Čermák Ph.D
FACULTY OF MANAGEMENT AND ECONOMICS			
IGA/FaME/2020/001	Risk reporting in the annual reports of non-financial companies	Ing. Jana Vychytilová, Ph.D.	x
IGA/FaME/2020/002	The impact of digital transformation on consumer behaviour and firms' sustainable performance	Fortesa Haziri	doc. Chovancová/doc. Pilík
IGA/FaME/2020/003	Training and development programs and the consequences for employee's commitment, satisfaction and organizational performance: an analysis from Czech public service sector	Victor Kwarteng Owusu	doc. Gregar
IGA/FaME/2020/004	Identification of Risks Associated with the Complexity of Tax Laws in the Czech Republic for Various Social Groups, Entrepreneurs and Companies	Mgr. Eva Kolářová, Ph.D.	x
IGA/FaME/2020/005	The sustainability practices in the eco and rural tourism	Mohsin Javed	doc. Tučková
IGA/FaME/2020/006	Improving the performance of firms of financial sektor by using digital technologies	Ing. Radka Daňová	Ing. Kameníková
IGA/FaME/2020/007	Innovation processes, strategies and policies in the context of Smart City	Ing. Martin Habuda	doc. Kubík
IGA/FaME/2020/009	Process optimization and knowledge information support in Industry 4.0 companies	Ing. Jakub Hadač	prof. Rajnoha
IGA/FaME/2020/010	The Measurement of Performance in Selected Sectors With The Emphasis on Human Resources Indicators	Ing. Jana Zlámalová, MBA	doc. Zámečník
IGA/FaME/2020/011	Research of current economic topics in the context of Souttheast Asia	Ing. Lubor Homolka, Ph.D.	x

FACULTY OF APPLIED INFORMATICS			
IGA/FAI/2020/001	Utilization of EEG and EMG diagnostic methods for data collection and control of intelligent systems	Koudelková Zuzana, Ing.	prof. Ing. Roman Jašek, Ph.D.
IGA/FAI/2020/002	Information Support of Population Protection	Džermanský Martin, Ing.	doc. Ing. Martin Hromada, Ph.D.
IGA/FAI/2020/003	Application of advanced technologies to increase the resistance of soft targets and to protect human health	Blahová Marta, Ing.	doc. RNDr. Vojtěch Křesálek, CSc.
IGA/FAI/2020/005	Identification and analysis of information environment of the organization from the perspective of cyber security	Tomšů Miroslav, Ing.	doc. Ing. Luděk Lukáš, CSc.
IGA/FAI/2020/006	Models of spreading of threat sources	Svoboda Jan, Ing.	doc. Ing. Luděk Lukáš, CSc.
REGIONAL RESEARCH CENTRE CEBIA-Tech			
IGA/CebiaTech/2020/001	Machine Learning and Meta-heuristic Optimization Techniques with Applications	Kadavý Tomáš, Ing.	doc. Ing. Zuzana Komínková Oplatková,
IGA/CebiaTech/2020/002	Optimization of specific elements of environmental engineering systems in terms of energy efficiency and noise	Skovajsa Jan, Ing.	Ing. Martin Zálešák, CSc.
IGA/CebiaTech/2020/003	Crime Scenario Investigation Process within Virtual Reality enhanced by Polygraph utilization	Ševčík Jiří, Ing.	doc. Mgr. Milan Adámek, Ph.D.
IGA/CebiaTech/2020/004	Optimization roof unit for navigation and connection service vehicles	Juřena Tomáš, Ing.	Ing. Tomáš Dulík, Ph.D.
IGA/CebiaTech/2020/005	A modern platform for treating mental illness of children with interactive use of virtual reality	Mušálek Miroslav, Ing.	doc. Mgr. Milan Adámek, Ph.D.
IGA/CebiaTech/2020/006	Exploiting the Security Potential of the Country's Citizens to Increase the Security of Soft Targets	Kotek Lukáš, Ing.	doc. Ing. Martin Hromada, Ph.D.
FACULTY OF HUMANITIES			
IGA/FHS/2020/001	Analysis of Application Type of Students' Bachelor Thesis in Study Programme Preschool Teacher Training	PhDr. Hana Navrátilová, Ph.D.	x
IGA/FHS/2020/002	Comparison of parents' attitudes to preschool education in the Czech and Slovak Republic	Mgr. Beata Horníčková	doc. PaedDr. Jana Majerčíková
FACULTY OF LOGISTIC AND CRISIS MANAGEMENT			
IGA/FLKŘ/2020/001	Traffic Simulation in Cities	Ing. Kateřina Víchová	x
IGA/FLKŘ/2020/002	Software support analysis in the context of information security management system	Ing. Petr Svoboda	x

CENTRE OF POLYMER SYSTEMS			
IGA/CPS/2020/001	Biocompatibility and antimicrobial activity of materials	Ing. Martina Kašparová	doc. Ing. Petr Hupolíček, Ph.D.
IGA/CPS/2020/002	Bioactive polymer systems for environmental applications	Ing. Petra Válková	prof. Ing. Vladimír Sedlářík, Ph.D.
IGA/CPS/2020/003	Preparation and characterization of nanoparticles for advanced applications	Ing. Alžběta Vávrová	doc. Ing. et Ing. Ivo Kuřitka, Ph.D. et Ph.D.
IGA/CPS/2020/005	Optimization of fermentation process for the production of Kombucha Biomass Cellulose (KBC) using sour whey waste	MSc. Nguyen Hau Trung	doc. Nabanita Saha, MSc., Ph.D.
IGA/CPS/2020/006	Influence of Modifications Dispersion Particles on the Utility Properties of Magnetorheological Systems	Ing. Erika Kutálková	doc. Ing. Michal Sedláčik, Ph.D.
IGA/CPS/2020/007	Influence of razor blade on minimal energy necessary for crack growth in rubber	Ing. Aleš Machů	doc. Dr. Ing. Stoček
IGA/CPS/2020/008	Influence of nanostructured carbonized substrates on performance of flexible pressure sensors	Ing. Romana Daňová	prof. Ing. Petr Slobodian, Ph.D.
FACULTY OF MULTIMEDIA COMMUNICATIONS			
IGA/FMK/2020/005	QUALITATIVE RESEARCH - COMPARISON OF ART AR IN FRANCE AND IN THE CZECH REPUBLIC	Ing. Hana Nováková	x
IGA/FMK/2020/007	Upcyclation project	BcA. Jan Veselský / doc. Vladimír Kovařík	x
IGA/FMK/2020/008	Concept of Interdisciplinary educational project course based on Design Thinking methods	Mgr. Martin Kazík	x