
6 Research Projects

The Faculty of Economics, in cooperation with other universities, companies, financial institutions, public administration, regional and local governments, non-governmental organizations and organizations supporting regional development, participates in national and international research projects.

The research projects are funded from the following sources:

- EU R&D Programmes, especially the Horizon Programme;
- Grant agencies in the Slovak Republic: Scientific Grant Agency (VEGA), Slovak Research and Development Agency (APVV) etc.

6.1 International R&D Projects

<i>Project title:</i>	Opportunity ReCognition and Exploitation in a Circular Economy for RIS (ORCERIS)
<i>Supported by:</i>	H2020, EIRT, Raw materials
<i>Contract Number:</i>	17123
<i>Coordinator:</i>	Nataša Urbančíková
<i>Associated faculty:</i>	Oto Hudec
<i>Duration:</i>	2018 – 2020

Project description:

The ORCERIS project (funded by EIT Raw Materials) aims at increasing the success rate of new business ideas for the circular economy and raw materials. It does so by bringing together existing insights and tools for supporting entrepreneurs and firms in adopting circular ideas from 3 previous EIT Raw Materials KAVA projects, and by developing a training programme that those involved in innovation support services can integrate into their activities. Radboud University, VITO and Wuppertal Institute together develop a customized TTT workshop to share their best practices on entrepreneurial activities in the circular economy. Each of the two focal regions, Kosice and Budapest, will then conduct workshops for their target group ranging from start-up firms with a focus on circular business models to established SMEs who would like to explore which possibilities the idea of a circular economy might hold for them.

<i>Project title:</i>	Fostering Innovation in the Danube Region through Knowledge Engineering and IPR Management
<i>Acronym:</i>	KNOWING IPR
<i>Contract Number:</i>	<i>DTP2-076-1.1</i>
<i>Supported by:</i>	Interreg Danube Transnational Programme
<i>Local coordinator:</i>	Mojmír Prídavok
<i>Associated Faculty:</i>	František Janke, Miroslava Packová, Martin Dujčák
<i>Duration:</i>	2018 – 2021
<i>Website:</i>	http://www.interreg-danube.eu/approved-projects/knowing-ipr

Project description:

KnowLING IPR will improve framework conditions for innovation in the Danube region by developing a transnational KnowLING IPR platform, which will provide an open access tool for advanced intellectual property rights (IPR) analysis, and guidelines for improved and harmonized IPR policy framework across the Danube region. It will ensure broader and needs-based access to existing innovation and research results, to patents and to IPR knowledge and will encompass services and training for the management of IPR and for support to commercialization of research results and technology transfer.

<i>Project title:</i>	Strengthening Social Innovation and Entrepreneurial Spirit of Secondary Schools' Students by Using Highly Innovative Learning System
<i>Acronym:</i>	InnoSchool
<i>Contract Number:</i>	<i>DTP2-021-1.2</i>
<i>Supported by:</i>	Interreg Danube Transnational Programme
<i>Local coordinator:</i>	Mojmír Prídavok
<i>Associated Faculty:</i>	František Janke, Miroslava Packová, Michal Šoltés, Ján Buleca
<i>Duration:</i>	2018 – 2022
<i>Website:</i>	http://www.interreg-danube.eu/approved-projects/innoschool

Project description:

InnoSchool tackles the need for system change to support weak entrepreneurial culture and low engagement to social innovation and entrepreneurship. Its general objective is to strengthen social innovation and entrepreneurial spirit of secondary schools' students by development and introduction of highly innovative Learning System. InnoSchool Learning System (ILS) will be developed by using intensive learning interaction among project partners and using inclusive design process involving policy bodies, secondary schools, territorial business supporting actors and organizations working in social services. Its main uniqueness lies in two main innovations introduced for adolescents of age 17-18 years – (1) introduction of serious game for online simulations joined with teacher lecturing/guiding sessions to maximize educational impact through experiential learning and (2) social media and interschool competition inclusion to boost attractivity for students.

<i>Project title:</i>	Bringing Circular Economy to Peripheral Urban Centres
<i>Acronym:</i>	CITYCIRCLE
<i>Contract Number:</i>	<i>CE1515</i>
<i>Supported by:</i>	INTERREG Central Europe
<i>Local coordinator:</i>	Mojmír Prídavok
<i>Associated Faculty:</i>	František Janke, Martin Dujčák, Kristína Kočišová, Jozef Bucko, Róbert Hanzen, Peter Ťapák
<i>Duration:</i>	2019 – 2022
<i>Website:</i>	https://www.interreg-central.eu/Content.Node/CITYCIRCLE.html

Project description:

CITYCIRCLE is improving innovation capacities of peripheral urban centers of Central Europe by introducing the circular economy system to partner cities. Peripheral cities of Central Europe are marked by lack of innovation cooperation and lack of access to global innovation processes. Circular economy (CE) has been acknowledged as a development concept that should provide sustainable, resource efficient development and a great pool for innovation of new technologies, services, solutions and business models (EU Action Plan “Closing the loop”) to make our cities and regions better places to live and work. The main CITYCIRCLE objective is to utilize innovation potential of circular economy in cities through 1) setting-up quadruple-helix circular economy hubs in partner cities and to 2) equip them with the knowledge and tools so they will be able to design circular economy value-chains in their cities. Hubs will implement 3) pilot projects in the framework of respective S3 strategies to test developed tools, while 4) transnational value chains (supported by transnational marketplace for materials) will be defined in transnational CE strategy (transnational S3 implementation) to link local circular economy value chains and reach critical mass.

<i>Project title:</i>	Innovation Ecosystem for Smart Elderly Care
<i>Acronym:</i>	<i>I-CARE-SMART</i>
<i>Contract Number:</i>	<i>CE1516</i>
<i>Supported by:</i>	INTERREG Central Europe
<i>Local coordinator:</i>	Mojmír Prídavok
<i>Associated Faculty:</i>	František Janke, Martin Dujčák, Peter Ťapák, Róbert Hanzen
<i>Duration:</i>	2019 – 2022
<i>Website:</i>	www.interreg-central.eu/I-CARE-SMART

Project description:

Central Europe may catch up with European innovation leaders by working jointly on common priorities. Health & well-being of the elderly is a shared concern of I-CARE-SMART partners. They look at it not only as a societal challenge but also as an opportunity to promote growth. This calls for the development of innovative products & services meeting the special needs of the elderly, a notion often referred to as the silver economy. However, CE is still lagging to develop such products & services with active user involvement. I-CARE-SMART partners aim to bring innovation closer to senior citizens and create a structured collaboration framework centered around the users. Local/regional public authorities having strong links with seniors are well positioned to help this process. They can act as facilitators of innovation by mobilizing seniors and creating platforms where potential users can interact with innovators, voice their needs and provide feedback. Small businesses also have to gain enhanced capacities to access such platforms, which help them to develop highly marketable products & services. I-CARE-SMART delivers a comprehensive toolset with practical guidance on how to engage seniors and businesses in user-focused co-creation and open innovation. Based on the tools developed, a step-by-step process is launched to build new cooperation channels gradually. It starts with a co-creation-based needs assessment, then innovators are invited to present solutions to the revealed needs through the SilverStar Challenge. Development of solutions with user involvement is piloted via interactive co-creation sessions and living-lab-type real-life tests. Finally, the SilverStar Platform, a transnational open innovation platform opens the room for co-creation across borders. Through these steps, participants are “learning by doing” and get enabled to create lasting, structured collaboration within and among regional innovation ecosystems for smart elderly care.

<i>Project title:</i>	Virtual archaeological landscapes of the Danube region
<i>Acronym:</i>	Danube's Archaeological eLandscapes
<i>Supported by:</i>	Interreg Danube Transnational Programme
<i>Contract Number:</i>	DTP641
<i>Local coordinator:</i>	Mojmír Prídavok
<i>Associated Faculty:</i>	František Janke, Martin Dujčák, Peter Ťapák, Róbert Hanzen
<i>Duration:</i>	2020 – 2022
<i>Website:</i>	http://www.interreg-danube.eu/approved-projects/danube-s-archaeological-elandscapes

Project description:

Danube's Archaeological eLandscapes project's major goal is to make the archaeological heritage, especially archaeological landscapes of the Danube region, regionally, nationally and internationally more visible and thereby more attractive for its integration into sustainable cultural tourism. The backbone of this task are the major museums of the region, setting their focus also beyond their own premises, i.e., in the most prominent archaeological landscapes of the Danube region. By involving state-of-the-art virtual reality (VR) and augmented reality (AR) technologies the museums, which are visited by the mainstream of tourists, will encourage the visitors to experience the heritage in its original landscapes not only in their own country, but also in countries of other partners.

<i>Project title:</i>	Enhancing climate innovation mindset in the education system of CEE
<i>Acronym:</i>	Edu- Research CEE
<i>Supported by:</i>	H2020 , EIT Climate KIC
<i>Contract Number:</i>	190725
<i>Local coordinator:</i>	Miriám Šebová
<i>Associated Faculty:</i>	Dana Pařová, Erika Liptáková
<i>Duration:</i>	2019 – 2020

Project description:

The project is focused on education in CEE. It combines two perspectives – the perspective of environmental education and the perspective of fostering creativity and innovation mindset during learning process. The countries of V4 were identified as particularly susceptible to the future based on their low innovation performance and insufficient entrepreneurship. In 2019 an overarching desktop research was conducted by 4 universities from V4 countries on the creativity and sustainability in education systems. The findings were summarized in the final report. The next stage of the project will focus on primary research based on survey and focus groups with teachers. The objective of the project is to identify the crucial factor which limit the creativity and holistic understanding of sustainability concept in education.

<i>Project title:</i>	Review of EU Cohesion Policy in Slovakia – Lessons from the past and priorities for the future
<i>Supported by:</i>	DG Regio
<i>Contract Number:</i>	2018CE16BAT145
<i>Local coordinator:</i>	Miriám Šebová
<i>Associated Faculty:</i>	Tomáš Želinský, Matúš Kubák
<i>Duration:</i>	2019 – 2020

Project description:

The proposed project is based on an innovative mix of communication actions in cooperation of publishing houses (EURACTIV.sk and SME.sk) and academia. The project focuses on sectoral topics relevant for regional policy in Slovakia (Environment, Research and Innovation, Education

and Employment, Transport). Involved members of project team at TUKE are responsible for writing policy papers focused on critical issues on regional development. The next activity in the project is supporting the completion of Eurofondue.

6.2 National R&D Projects

<i>Project title:</i>	Economy model of the telecommunication network as an instantaneous part of the Internet of things
<i>Supported by:</i>	Slovak Research and Development Agency
<i>Contract Number:</i>	APVV 18-0368
<i>Coordinator:</i>	Vladimír Gazda
<i>Associated Faculty:</i>	Gabriel Bugár, Marek Gróf, Lenka Maličká, Marcel Vološin, Jana Zausinová, Martin Zoričák
<i>Duration:</i>	2019 – 2022

Project description:

Internet of things becomes a crucial technological paradigm to permeate every facet of mankind. There are expected significant changes not only in the utilization of the smart technological types of equipment but also in the functioning of the whole areas within the society. The mankind is approaching the state of the technological singularity, i.e., increasing interconnectedness of the smart machines will evoke boom of the economic growth that is expected to be highly unstable and would be followed by a sudden phase transition between various multi-equilibria states. It is evident that the scientific methodology based on the neoclassical approach interpreting just only stable equilibria state will not be capable of explaining new phenomena. The presented research will be focused on the instantaneous part of the IoT - the wireless communication network. Within the network, the scarce commodity called frequency spectrum is to be traded among various heterogeneous network participants. However, the seminal research of the Nyiato, Hossain, and others, published a few years ago, use standard methodological concepts like utility functions, demand and supply, profit, price, and various forms of the trade interactions like bargaining and auctions. So far, the authors mainly neglect the complex property of the communication networks functioning within the IoT. The ambition of the project is to propose and analyze the agent-based models of the IoT communication network capable of considering the new phenomena like phase transitions, multi-equilibria states, path dependence, self-organization, and the others, i.e., all the aspects that became the core of the complexity theory research.

<i>Project title:</i>	Success, Failure, and Aspirations of Children Living in Poverty
<i>Supported by:</i>	Slovak Research and Development Agency
<i>Contract Number:</i>	APVV-19-0329
<i>Coordinator:</i>	Tomáš Želinský
<i>Associated Faculty:</i>	Lata Gangadharan, Liang Choon Wang
<i>Duration:</i>	2020 – 2024

Project description:

Recent findings suggest that the poor often behave in less capable ways, which can make it more difficult to escape poverty. This may also lead to lower educational attainments, poor labour market outcomes, lower future income and wealth, vulnerability to shocks, and can result in a feedback loop that traps people in poverty. It is further believed that neighbourhoods influence behaviour, attitudes and values. Living in disadvantaged neighbourhoods is an important and significant predictor of low self-control in adolescence, which is associated with lower income levels in adulthood. Ultimately, being born into an environment of poverty can initiate processes that reinforce poverty and promote unfavourable behaviours. In this project, we focus on children living in poor (primarily segregated) communities. From early childhood, they observe socio-economic failures including poor living conditions, liquidity constraints, extremely high unemployment and low educational levels attained by adults. Ultimately, this can result in a fatalistic narrative – “it’s not worth trying” – which is prevalent in societies that experience ongoing failures and are characterized by low effort. In this project we focus on aspirations as a possible

element that can help to break the poverty cycle. The rationale behind the hypothesis is that living in poverty is likely to be a cause of failure to aspire to one's own potential, and low capacity to aspire is one of the potential causes of persistent poverty. The main goals of the project are to design a novel approach to the experimental elicitation of aspirations and aspirational biases, and, using modern research methods from experimental and behavioural economics, investigate how exposure to failure/success environments can explain and enforce/reduce aspirational biases. The secondary objective is then to develop a set of interventions aimed at offsetting aspirational biases.

Project title: **Economic and social indicators of quality of life in cities**
Supported by: Scientific Grant Agency (VEGA)
Contract Number: VEGA - 1/0453/19
Coordinator: Oto Hudec
Associated Faculty: Nataša Urbančíková, Iveta Korobaničová, Tomáš Želinský
Duration: 2019 – 2021

Project description:

Multi-dimensional concepts such as quality of life or social well-being cannot be defined in the usual direct way. The justification of their key aspects (domains) is required, and composite indexes composed of domains containing indicators corresponding to the theoretical concept are the most widely used for analyzing spatial differences in the quality of life of the population. The quality of life considers economic and social factors as well as the external environment (city) for the life of the individual. The project shall propose new economic and social indicators of measuring the quality of life. Statistical and econometric methods (factor analysis, regression models and clustering methods) are used to explore the spatial context of quality of life in European space. An in-depth analysis of the socio-economic and systemic structure of European and Slovak cities makes it possible to understand the mechanisms of urban prosperity in relation to the quality of life. The results create an analytical basis for the development of Slovak cities by revealing the problematic aspects of quality of life and development.

Project title: **Development of methodological platform for evaluation of efficiency in the financial and non-financial sector**
Supported by: Scientific Grant Agency (VEGA)
Contract Number: VEGA - 1/0794/18
Coordinator: Kristína Kočíšová
Associated Faculty: Radovan Dráb, Alena Mojsejová, Peter Šugerek, Jakub Sopko, Adriana Novotná, Michaela Kavčáková, Eva Petrová, Tomáš Bindzár
Duration: 2018 – 2020

Project description:

The proposed project fills the gap in current empirical literature focused on the evaluation of the efficiency in the financial and non-financial sector, based on the application of „new“ DEA models. The research will be carried out in several areas. Firstly, the existing theoretical concepts of efficiency assessment in the financial and non-financial sector and ways of defining input and output variables will be studied, focusing on examining the shortcomings of the original DEA models. Secondly, the „new“ DEA models will be theoretically defined to address the shortcomings found in the original DEA models. Thirdly, the efficiency will be evaluated on the selected sample, which will serve to apply the above models in practice. Last but not least, a methodological platform for evaluating efficiency based on the use of the R software will be developed. A manual of scripts will be developed with a detail description of the used methods, which will serve to solve the research tasks for researchers and students.

Project title: **Perzistencia v inflácii, cenová stabilita a výkonnosť eurozóny**
Supported by: Scientific Grant Agency (VEGA)
Contract Number: VEGA 1/0793/19
Coordinator: Rajmund Mirdala
Associated Faculty: Marianna Siničáková, Julia Ďurčová, Veronika Šulíková, Ľubica Štiblarová, Leoš Šafár, Zuzana Čarnogurská.
Duration: 2019 – 2021

Project description:

Change in the perception of price stability is one of the key implications affecting monetary policy conduction since the recent economic crisis. Deflationary or disinflationary pressures that slow already modest inflation that is crucial for economic growth together with low effectiveness of the monetary policy measures to stimulate higher inflation brought the attention of economists to the problem of inflation persistence. Its presence undermines the success of monetary authorities in achieving stable inflation, especially in periods when inflation deviates from its target. The main aim of the project is to quantify the degree of inflation persistence and its structural characteristics in Euro Area member and non-member countries. Understanding the persistence in inflation in large number of countries while taking monetary and economic fundamentals into account will allow us to revise current monetary policy framework of the Euro Area and propose different alternatives of its adjustments.

Project title: **Decision Support Systems and Business Intelligence within Network Economy.**
Supported by: Scientific Grant Agency (VEGA)
Contract Number: VEGA - 1/0201/19
Coordinator: Martin Vejačka
Associated Faculty: Jozef Bucko, Dana Paľová, Július Czap, Peter Šugerek, Libuša Révészová, Radovan Dráb, Emil Exenberger
Duration: 2019 – 2021

Project description:

The project focuses on the research of Decision Support Systems as part of Business Intelligence within the network economy between economic entities linked within the structure of the economic network. The aim of the project is to investigate the factors and mechanisms that influence the behavior of subjects when deciding to undertake a certain economic activity and its economic impact. The basic influence factor of relations between network economy is trust in the given environment. Through the modeling of processes and relationships between entities in a given structure, we will analyze the extent of their impact on these systems and its determinant parameters. Research will use methods of data mining, digital metadata analysis, graph theory and statistical-econometric methods.

Project title: **System Implications of the Fourth Industrial Revolution and Adaptation Processes of the Information Society (Economic, Technological and Cultural Aspects)**
Supported by: Scientific Grant Agency (VEGA)
Contract Number: VEGA - 2/0002/19
Coordinator: Alena Mojsejová
Associated Faculty: Tomáš Želinský, Erika Liptáková
Duration: 2019 – 2021

Project description:

The present time is characterized by a combination of many fundamental changes in the economy and society. The first is the Fourth Industrial Revolution, the next is the use of artificial intelligence technology

and smart technology. The technical revolution shows the need for the necessary changes in society and economy (digitization, sharing, shrinking the economy), otherwise new technologies will not produce the expected effects for the economy and society. The basic direction of the research is a combination of processes of change in the technical aspects of production, the size and quality of consumption, the field of objectives and the functioning of the society. It will also include the identification of the polarization tendencies, income and wage inequalities in relation to changes in consumption and employment including at the regional level of the SR. The aim is to find out what the level of the society's plasticity is, which is a basic prerequisite for defining flexibility and adaptive processes.

Project title: **Investment decision-making of investors in the context of effective corporate taxation**

Supported by: Scientific Grant Agency (VEGA)

Contract Number: VEGA - 1/0430/19

Coordinator: Alena Andrejovská

Associated Faculty: Jozef Glova, Anna Bánociová, Lucia Mihóková, Slavomíra Martinková, Darya Dancáková, Veronika Konečná, Martina Regásková, Michala Inkabová, Leoš Šafár, Oleg Kováč.

Duration: 2019 – 2020

Project description:

The project deals with issues to provide a conceptual view of the field of effective corporate taxation and its impact on investment decision making. It defines logical rules based on accrual and tax principles that are crucial to the effective allocation and scale of investments. The aim is to develop a methodology that will allow to define effective taxation as a key attribute determining the required return on investment. The methodology and results of the application in the conditions of the Slovak Republic will enable, on the one hand, to better understand the impact of real taxation in determining the desired profitability and hence the value of the investment and, on the other hand, to eliminate the frequent value deficiency in applying the statutory tax rate instead of the effective tax. An important aspect is the subsequently created tax shield and tax savings for the selected type of investment.

Project title: **The socioeconomic valuation and measurement of economic efficiency of cultural institutions focused on museums and galleries in Slovakia.**

Supported by: Scientific Grant Agency (VEGA)

Contract Number: VEGA - 1/0806/18

Coordinator: Miriam Šebová

Associated Faculty: Iveta Korobaničová, Peter Džupka, Lenka maličká, Erika Liptáková, Zuzana Révészová, Tatiana Soroková, Barbora Tóthová

Duration: 2018 – 2020

Project description:

The main objective of the project is to analyze the socio-economic contributions of culture, to evaluate the economic efficiency of museums and art galleries and to formulate the methodology for their assessment. The project will be organized at various stages. The first stage will focus on case studies concerning the evaluation of socio-economic contributions of selected museums and art galleries by employing the methods of valuating nonmarketable goods (e.g., WTP). The economic efficiency of museums and art galleries located in the Slovak republic will be analyzed by DEA analysis during the second stage. The third stage will be based on the questionnaire outputs gathered by museums and galleries visitors. Combining the above-mentioned approaches, the input data will be obtained in order to create the methodology related to the assessment of socio-economic efficiency of museums and art galleries in Slovakia.

6.3 International Educational and other Projects

<i>Project title:</i>	EU Public Procurement
<i>Acronym:</i>	EUPP
<i>Supported by:</i>	European Commission – Erasmus+
<i>Contract Number:</i>	600477-EPP-1-2018-1-SK-EPPJMO-MODULE
<i>Coordinator:</i>	Tomáš Malatínek
<i>Duration:</i>	2018 – 2021

Project description:

The Module **EU Public Procurement** contains teaching and research activities focused on EU public procurement. Academic added value stems from introduction of special content focusing on legal, administrative, economic and environmental aspects of EU public procurement policy into economic study programs. The module is designed for students who are not directly connected to the EU integration studies. The module strives to prepare professionals skilled in EU public procurement by providing professional education and research. Outputs will be available for anyone who might be interested. The module also promotes first teaching and research activities in the field of EU integration studies for young teacher/researcher. The module delivers tailor-made course on specific EU topic relevant for students and practitioners in their professional life.

<i>Project title:</i>	Tracking Learning and Career Paths of VET graduates, to improve quality of VET provision
<i>Acronym:</i>	ON TRACK
<i>Supported by:</i>	European Commission – Erasmus+
<i>Contract Number:</i>	2018-1-SK01-KA202-046331
<i>Coordinator:</i>	<i>Oto Hudec</i>
<i>Associated Faculty:</i>	<i>Nataša Urbančíková</i>
<i>Duration:</i>	2018 – 2020

Project description

The project “On Track” aims to develop a tracking system for VET graduates of initial vocational education and training schools and institutes. The tracking system will gather qualitative and quantitative data from VET graduates, related to further education, employment, career paths, skills and competences required in the labour market, etc., with the aim to provide feedback to the quality assurance system of the VET provider and inputs to the design of VET qualifications and programmes, planning and implementation of learning processes, additional services, such as vocational guidance, support to VET students, networking with labour market, provision of work-based learning.

<i>Project title:</i>	Reforming Master Programmes in Finance in Armenia and Moldova
<i>Acronym:</i>	REFINE
<i>Supported by:</i>	European Commission – Erasmus+
<i>Contract Number:</i>	585784-EPP-1-2017-1-AT-EPPKA2-CBHE-JP
<i>Local Coordinator:</i>	Nataša Urbančíková
<i>Associated Faculty:</i>	Oto Hudec, Vladimír Gazda, Jozef Glova, Radoslav Tušan, Peter Džupka
<i>Duration:</i>	2017 – 2020

Project description

REFINE addresses the need for reform of study programmes in Finance with regard to contents and teaching methodologies / pedagogical approaches. Moreover, it addresses the demand for

alignment of study programmes with labour market demands to provide the Armenian and Moldovan economies with highly skilled graduates in Finance.

Against this background, the wider objective of REFINE is to enhance the quality and relevance of six existing Master (MA) programmes in Finance in Armenia and Moldova through targeted reforms.

The specific objectives are:

1. To reform six existing MA curricula in Finance taking into account the latest international developments in the subject area
2. To promote the quality and relevance of the MA programmes through the development of updated and new course materials
3. To further develop the competences and skills of teaching staff through training courses in innovative teaching methodologies and current topics in Finance
4. To increase the alignment of the MA programmes with labour market requirements

<i>Project title:</i>	Reinforce entrepreneurial and digital skills of students and teachers to enhance the modernization of higher education in MOLDOVA
<i>Acronym:</i>	RESTART
<i>Supported by:</i>	European Commission – Erasmus+
<i>Contract Number:</i>	585353-EPP- 1-2017- 1-RO- EPPKA2-CBHE- JP
<i>Local Coordinator:</i>	Peter Džupka
<i>Associated Faculty:</i>	Radovan Dráb, Iveta Korobaničová, Slávka Klasová, Tomáš Malatínec, Miriam Šebová, Nataša Urbančíková, Oto Hudec, Dana Pařová, Martin Vejačka, Tomáš Štofa
<i>Duration:</i>	2017 – 2021

Project description

Wider objective of the Restart project is to ensure modernization of curricula of 5 Higher education Institutions from Moldavia through developing, testing, and adaptation of improved and upgraded Entrepreneurial Curriculum (master level) that stimulate innovation skills of students and teachers toward a stronger local business capacity.

<i>Project title:</i>	Regions in Europe Coordinate and Optimize innovation and competitiveness policy instruments towards improving the sustainability of transport - study case of SMEs in the railway sector
<i>Acronym:</i>	RECORD
<i>Contract Number:</i>	PGI05377
<i>Supported by:</i>	European Commission
<i>Local Coordinator:</i>	Mojmír Prídavok
<i>Associated Faculty:</i>	Miroslava Pačková, Martin Dujčák, Peter Bindzár
<i>Duration:</i>	2018 – 2020

Project description:

Europe has always been a step ahead regarding sustainable transport mode in comparison with the rest of the world and Europe has developed valuable expertise and innovation in the railway sector. That is why, railway is identified in many RIS3. However due to a fierce competition from emerging industries, the whole sector and especially SME are facing big challenges regarding their competitiveness (price based vs. innovation-based competitiveness). To tackle this challenge, regions with the help of the EC, put efforts to encourage R&I joint activities (triple helix concept) by offering innovation delivery support in the ERDF OP (direct findings, cluster policy...). Other initiatives have been launched towards the railway sector, but it has been pointed out that SME have specific issues due to the way public transport works, the specificities of its value chain and its market structure (few big companies with thousands of SMEs, few profit margin, low innovation culture, etc.). Taking this into consideration, the RECORD project aims at helping SME

to invest more and better in innovation activities by redesigning the regional policy instruments. To do so, we plan individual work to be compared with partnering regions and analysed. Benchmark and brainstorming sessions with local stakeholders will help draw proven oriented conclusions and develop new approaches together. To have comparability and to be able to share experiences and learn from each other, it is key to admit regional policy structure, industrial environment and clusters differences. Stakeholders' engagement in this project is very important as it will be the first-time managing authorities, clusters, businesses, universities, other funding organizations, regions etc. are working together early in the political process in the railway sector. This lends credibility and builds solid foundation to develop a framework that will be accepted for implementation.

<i>Project title:</i>	Network for Inter-Institutional Cooperation in Entrepreneurial Education
<i>Acronym:</i>	NICE
<i>Supported by:</i>	European Commission – Erasmus+
<i>Contract Number:</i>	2020-1-CZ01-KA201-078488
<i>Local Coordinator:</i>	Jozef Glova
<i>Associated Faculty:</i>	Alena Andrejovská, Manuela Raisová, Leoš Šafár, Jozef Bucko
<i>Duration:</i>	2020 – 2023

Project description

NICE - Network for Inter-Institutional Cooperation in Entrepreneurial Education is a project created to support the school education through activities supporting entrepreneurial competences among secondary school students. ECo is understood as an ability to use opportunities and ideas and transform them into values for others. The core of ECo is creativity, critical thinking, problem solving, initiative, persistence, ability to cooperate towards to plan and manage projects with cultural, social or commercial value. Business skills are based on creativity containing imagination, strategic thinking, problem solving, critical and constructive reflection in the frame of developing creative processes and innovations. It is required to have skills both to work individually, and in teams, to mobilize resources (human/stuff) and persist in performing the activity. It also includes ability of decision-making dealing with finance - decisions about costs and values (EC, 2018 – recommendations on key competences). The key area is to support the skills mentioned above and this is where the partners of the project (universities from 4 different countries) aim their activities. Although the universities work with university students, thanks to the cooperation with secondary schools and this project, they can work with and influence also SS students. Activities can be represented mainly as:

- Development and realization of lectures in economic sciences (finance, management, accounting, marketing, business economics).
- Development and realization of competitions for secondary school students in economic topics.
- Cooperation among educational activities.
- Organization of university activities aimed at secondary school students (open days, etc).

<i>Project title:</i>	Art & Creative Craft Enterprises for Successful Streaming of 3D Printing
<i>Acronym:</i>	ACCESS-3DP
<i>Supported by:</i>	European Commission – Erasmus+
<i>Contract Number:</i>	2020-1-FR01-KA202-080183
<i>Local Coordinator:</i>	Mojmír Prídavok
<i>Associated Faculty:</i>	František Janke, Miroslava Packová, Martin Dujčák
<i>Duration:</i>	2020 – 2023



Project description:

A partnership composed by education, business representatives and research will develop approaches to training people in the creative industries that promote that creativity, alongside entrepreneurial thinking and skills for applying innovative ideas in practice. It is vital for anyone working industries that may apply 3D printing, to understand the "value chain of 3D printing" and how it may evolve over time. An insight needs to be given on where in the chain value is added, and how. ACCESS-3DP training materials will empower students to successfully enter the market, and/or to successfully sustain their business.

6.4 National educational projects and Developmental activities

Project Title: **Management System for Quality, Efficiency and Economic Effectiveness at the Faculty of Economics (QMS-EkF)**
Project manager: Radoslav Bajus

Aims:

1. Quality management system in line with STN EN ISO 9001:2016.
2. Management of quality, efficiency and effectiveness according to the EFQM excellence model for universities.

Expected outcomes:

1. Implementation of the Quality Management System in accordance with STN EN ISO 9001:2016.
2. Self-evaluation and performance management based on the European Foundation for Quality Management – EFQM Excellence Model.
3. To achieve Performance Competitiveness based on the Six Sigma model as used in the European Union.

Activities carried out in 2016—2020

1. Internal re-certification audit provided by TUV NORD Slovakia, s.r.o.
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Project Title: **Preparation and Delivery of the Mathematics Course**
Project manager: Libuša Révészová
Project implementation period: February 2020 – March 2020

The aim of the project: Preparation and delivery of Course on Mathematics for applicants for the study at the Faculty of Economics. Expected outcomes: Providing a good preparation for entry exams for applicants for the study at the Faculty of Economics and promotion of the Faculty of Economics.

Project Title: **Support of French Two Degree Programme at the Faculty of Economics, TUKE**
Supported by: Slovak-French University Institute (SFUI/IUFS)
Project Coordinator: Ľudmila Bartóková
Associated Faculty: Júlia Ďurčová, Marianna Siničáková, Valentine Bidault
Project implementation period: 2020 – 2021

The aim of the project is to promote French Two Degree programme at the Faculty of Economics, TUKE among secondary school students. The project is based on interactive activities for students and teachers involving collaboration with current Faculty students of the programme. The project is realised within cooperation with Slovak - French University Institute.

Project Title: **Preparation and Realisation of the Distance Learning Bachelor and Master Courses in the area of Finance, Banking and Investment and Public Administration and Regional Development**
Project manager: Dana Paľová

- The aim of the project: Implementation and delivery of distance on-line bachelor and master courses at the Faculty of Economics.



- Project milestones:
- Retraining of teaching staff interested in the project,
- Preparation of on-line courses content for bachelor and master study programmes, Finance, Banking and Investment,
- Implementation and realization of blended learning (a combination of the face-to-face study supplemented with a distance education component) using LMS Moodle.
- The outcome of the project is improvement of the quality of part-time study at the Faculty.

6.5 Project proposals submitted for funding

During the year 2020 the Faculty staff members have been working on new project proposals which have been submitted within the calls for proposals published either by the European Commission or national research agencies. The following project proposals were successful or are still under consideration of respective authorities:

Project title: **COMPASS – Leading Ulyseus to become a European University Excellence model through research and innovation**

Supported by: European Commission

Contract Number: 101035809 (H2020 SWAFS)

(Local) Coordinator: Radoslav Delina

Duration: 2021 – 2024

Project title: **DigitalSoftSkills @ Ulyseus**

Acronym: D2S @ Ulyseus

Supported by: European Commission – Erasmus+

Contract Number: 2020-1-FR01-KA226-HE-095221

Local Coordinator: František Janke

Associated Faculty: Marianna Siničáková, Michal Šoltés, Mojmír Prídavok, Martin Dujčák, Katarína Valentová, Manuela Raisová

Duration: 2021 – 2022

Project title: **Mapping Open Virtual Exchanges in Slovak Universities**

Acronym: MOVE

Supported by: Ministry of Education, Science, Research and Sport of the Slovak Republic

Local Coordinator: Radovan Hudák

Associated Faculty: Natália Vašková, Jaroslav Porubán, Marianna Siničáková, Peter Fecil'ak

Duration: 2021

Project title: **The research of behavioral patterns using big data within public and commercial procurement with negative impact on efficiency of procurement processes**

Supported by: The Slovak Research and Development Agency

Contract Number: APVV-20-0608

(Local) Coordinator: Radoslav Delina

Duration: 2021 – 2024

Project title: **Economic Impact and Competitiveness of Shared Services & Business Process Outsourcing Centers and the IT sector in the Slovak Economy**

Supported by: Scientific Grant Agency (VEGA)

Contract Number: VEGA–1/0617/21

Coordinator: Marianna Siničáková

Duration: 2021 – 2023

Project title: **Analysis of Economic Perspectives of Industry 4.0 in Terms of the Impact of Intangibles on the Profitability and Market Value of Industrial Companies**

Supported by: Scientific Grant Agency (VEGA)

Contract Number: VEGA–1/0673/21

Coordinator: Jozef Glova

Duration: 2021 – 2023

<i>Project title:</i>	The Role of EU Cohesion Policy Externalities in Mitigating Effects of Upcoming Crisis
<i>Supported by:</i>	Scientific Grant Agency (VEGA)
<i>Contract Number:</i>	VEGA–1/0394/21
<i>(Local) Coordinator:</i>	Ľubica Štiblárová
<i>Duration:</i>	2021 – 2023
<i>Project title:</i>	Recovering food chain circular system values
<i>Supported by:</i>	European Commission
<i>Contract Number:</i>	H2020-LC-GD-2020 (ID 101037018)
<i>Coordinator:</i>	Mojmír Prídavok
<i>Duration:</i>	2021 – 2024
<i>Project title:</i>	Thriving Communities: Resilient Regions of SE Europe
<i>Supported by:</i>	European Commission
<i>Contract Number:</i>	H2020-LC-GD-2020 (ID 101036540)
<i>Coordinator:</i>	František Janke
<i>Duration:</i>	2021 – 2024
<i>Project title:</i>	The use of analytical tools to detect manipulation in the financial statements of state and local government entities in the context of a true and fair view of accounting
<i>Supported by:</i>	Scientific Grant Agency (VEGA)
<i>Contract Number:</i>	VEGA-1/0866/21
<i>(Local) Coordinator:</i>	Radoslav Tušan
<i>Duration:</i>	2021 – 2022
<i>Project title:</i>	Holistic Education and Training of University Teachers in Field of Economics
<i>Supported by:</i>	Cultural and Educational Agency (KEGA)
<i>Contract Number:</i>	053TUKE-4/2021
<i>(Local) Coordinator:</i>	Miriám Šebová
<i>Duration:</i>	2021 – 2023
<i>Project title:</i>	Assessment of the level of financial control in municipalities
<i>Supported by:</i>	Scientific Grant Agency (VEGA)
<i>Contract Number:</i>	VEGA–1/0367/21
<i>(Local) Coordinator:</i>	Lenka Hudáková Stašová
<i>Duration:</i>	2021 – 2023