

# List of approved dissertation topics 2026/2027

Advisor (Department)	Title and dissertation topic annotation	Study form
<p>1. Jaroslav Dugas, doc. Ing., PhD (Department of Economics and Management)</p>	<p><b>Digitalization of Corporate Processes</b></p> <p>This dissertation examines the digitalization of corporate processes within the context of evolving technological, economic, and organizational conditions in modern enterprises. The aim of the work is to comprehensively explore how digitalization technologies—including process automation (RPA), information systems, cloud solutions, data analytics, and artificial intelligence—affect the efficiency, performance, and strategic direction of companies. The thesis analyzes the impact of digital transformation on workflow optimization, reduction of operational costs, error elimination, increased transparency, and the support of managerial decision-making.</p> <p>The dissertation includes the development of a methodological framework for assessing the level of digitalization within an organization and the identification of barriers that hinder its effective implementation. The empirical part focuses on evaluating specific business processes in selected organizations and determining the key factors that contribute to the success of digitalization initiatives. The findings enhance the understanding of transformative mechanisms in the digital environment and provide recommendations for improving process management and optimization in corporate settings.</p>	<p>FTS/PTS</p>
<p>2. Barbora Gontkovičová, doc. Ing., PhD. (Department of Economics and Management)</p>	<p><b>Determinants of Workforce Readiness for Digital Transformation and the Implementation of Artificial Intelligence in European Union Enterprises</b></p> <p>This dissertation thesis examines the complexities of digital transformation and artificial intelligence (AI) from the perspective of labour force readiness, a pivotal determinant of competitiveness within the European Union. The research focuses on the analysis of barriers and incentives influencing the integration of these technologies into the corporate environment. The primary objective is to empirically verify the determinants of labour force readiness for digital transformation and artificial intelligence implementation in EU enterprises and to propose recommendations for the acceleration of their digital maturity. The study employs a quantitative methodology based on a secondary analysis of data from European statistical databases. The empirical enquiry centres on the analysis of anticipated relationships between digital competence levels, the intensity of corporate vocational training, and the rate of AI technology adoption. The thesis endeavours to formulate a strategic framework for human resource management and policymakers, potentially contributing to a more effective development of the digital potential of the labour force and supporting the innovative performance of enterprises within a shifting economic landscape.</p>	<p>FTS/PTS</p>

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<p><b>3.</b>  <b>Jozefína Hvastová, doc. Ing., PhD.</b>  <b>(Department of Economics and Management)</b></p>	<p><b>Accounting Conservatism as a Determinant of Corporate Financial Stability</b></p> <p>In conditions of increasing uncertainty in the business environment and growing demands for transparency of accounting data, the setting of corporate accounting policies is gaining crucial importance for long-term stability and sustainability. The dissertation addresses the issue of accounting conservatism as a significant element of financial accounting and its economic consequences in the context of corporate management. The research will be based on the empirical verification of the relationship between accounting conservatism and corporate financial stability through the analysis of firm-level data. The expected contribution of the dissertation is to deepen knowledge of the economic consequences of accounting conservatism, to determine its optimal level from the perspective of financial stability, and to formulate implications for the development of corporate accounting policy with a view to supporting long-term stability.</p>	<p>FTS/PTS</p>
<p><b>4.</b>  <b>Zuzana Kudlová, doc. Ing., PhD.</b>  <b>(Department of Corporate Financial Management)</b></p>	<p><b>Information Content of Financial Statements of Enterprises in the Slovak Republic through Financial Ratios</b></p> <p>The dissertation focuses on evaluating the information content of financial statements of enterprises through financial ratios. The research is based on secondary data obtained from financial statements over a ten-year period. The study examines relationships between selected items of financial statements and financial ratios, evaluates their development over time, and compares them across different groups of enterprises. Basic statistical methods are applied, including descriptive statistics, correlation analysis, and tests of differences between groups. The results contribute to a better understanding of the informational value of financial statements in business practice.</p>	<p>FTS/PTS</p>
<p><b>5.</b>  <b>Lenka Kuhnová, doc. Ing., PhD., MBA</b>  <b>(Department of Economics and Management)</b></p>	<p><b>A Model of Human Capital Development Based on Application-Oriented Strategic Planning and Digital Communication</b></p> <p>The dissertation addresses the contemporary need to transform human capital development within the context of the modern economy, increasing competitive pressures, and a generation oriented toward the digital environment. It is grounded in the premise that traditional approaches to human capital development are no longer sufficient. The current environment requires a dynamic model in which practice-oriented planning activities (including project-based, innovation-driven, community, or strategic initiatives) are integrated with digital communication and an active presence in the online space. Digital channels, particularly social media, extend beyond a purely informational role. They function as mechanisms for signaling value, authenticity, and innovative potential to relevant stakeholders. The research focuses on identifying the relationships between application-oriented management, the development of key competencies, digital visibility, and the perceived attractiveness of an entity within a competitive environment. The contribution of the dissertation lies in the design and empirical validation of a strategic model that integrates human capital development with digital communication as instruments for enhancing organizational performance, competitiveness, and long-term sustainability.</p>	<p>FTS</p>

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<p>6.  <b>Jozef Lukáč, doc. Ing. , PhD.</b>  <b>(Department of Corporate Financial Management)</b></p>	<p><b>Prediction of Insolvency Proceedings of Slovak Companies Based on Data from Financial Statements</b></p> <p>The dissertation focuses on predicting insolvency proceedings of Slovak companies using data from financial statements and publicly available registers. It responds to the need for early identification of firms with an increased risk of entering bankruptcy or restructuring, combining approaches from financial statement analysis with modern quantitative modelling methods. The empirical part will be based on data obtained from the Slovak Register of Financial Statements and complementary information on insolvency events, with the aim of developing and validating an early-warning predictive model applicable in managerial practice. The dissertation will emphasize the selection of relevant financial indicators, testing their predictive power across industries and firm-size categories, and conducting rigorous time-based validation. The main output will be a methodologically grounded framework for assessing insolvency risk that enables comparable and interpretable firm ratings and supports better decision-making by managers, creditors, and other stakeholders.</p>	<p>FTS/PTS</p>
<p>7.  <b>Cecília Olexová, doc. Ing., PhD.</b>  <b>(Department of Economics and Management)</b></p>	<p><b>Competency model as a tool for the sustainability of the silver generation in the labour market</b></p> <p>The dissertation solves the problem of employability of the Silver Generation (age group 50+) in the labour market and at the same time addresses the issue of the lack of workers with the necessary competences related to the ageing of the population, by adapting the competences of the Silver Generation to the current profile of jobs resulting from the needs of Industry 5.0.</p>	<p>FTS/PTS</p>
<p>8.  <b>Michal Stričík, doc. Ing., PhD.</b>  <b>(Department of Commercial Entrepreneurship)</b></p>	<p><b>Model of sustainable waste management in relation to climate neutrality</b></p> <p>The European Union has set itself the objective of achieving climate neutrality in its development strategies. The implementation of the principles of circular economy and the effort to achieve maximum material and energy recovery of waste while minimizing its disposal should contribute to this goal. The output of this work will be a model that will contribute to the intensification of material-energy recovery of waste in Slovakia and thus to achieve carbon and climate neutrality.</p>	<p>FTS/PTS</p>

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<p>9. Stanislav Szabo, Dr.h.c. prof.h.c. doc. Ing., PhD., MBA, LL.M (Department of Commercial Entrepreneurship)</p>	<p><b>Systemic Model of Data Consolidation and Management of Analytical Capacities of the State: Economic Efficiency and Performance Impacts on the Protection of Fiscal Interests.</b></p> <p>The dissertation focuses on the design and empirical verification of a systemic model for data consolidation and the management of analytical capacities within public administration, with a particular emphasis on safeguarding the fiscal interests of the state. The starting point of the research is the identified problem of fragmented data sources, insufficient interoperability of information systems, and the absence of a unified performance framework for evaluating the efficiency of analytical processes in the field of tax control.</p> <p>The thesis develops an economic and managerial approach to building a centralized integration data platform that enables risk-based management of control processes and the optimization of public resource allocation. The theoretical part systematizes knowledge from the fields of data economics, data governance, organizational performance management, and the economic efficiency of public investments. On this basis, a model is proposed linking the degree of data integration, the quality of analytical outputs, and measurable fiscal impacts, particularly in relation to reducing the tax gap.</p> <p>The empirical part of the dissertation employs econometric modeling, cost–benefit analysis, and simulation approaches to quantify the return on investment in the modernization of the analytical environment. The output is a proposed methodology for assessing the economic efficiency of data platforms and a set of key performance indicators enabling the objective measurement of the benefits arising from systemic data consolidation.</p> <p>The contribution of the dissertation lies in connecting the architectural principles of data integration with economic theory on efficiency and performance management, thereby creating an applicable framework for strategic decision-making regarding the modernization of analytical capacities within public administration.</p>	FTS
<p>10. Michal Tkáč, doc. Ing., PhD., MBA (Department of Corporate Financial Management)</p>	<p><b>Pay Transparency and Its Economic Implications for Firms</b></p> <p>The dissertation focuses on pay transparency as an important regulatory tool in the labor market and a mechanism for promoting pay equity. The theoretical part will explore concepts such as wage transparency, information asymmetry, and fairness in compensation, along with their economic implications. The empirical part will be based on secondary data analysis from firms' financial statements (e.g., Finstat) and statistical data (Statistical Office of the Slovak Republic, Eurostat). Econometric methods and scenario modeling will be applied to estimate the impact of legislative changes resulting from Directive (EU) 2023/970 on the business sector. The expected outcome is the identification of key economic effects of pay transparency and policy recommendations for firms and policymakers.</p>	FTS/PTS
<p>11. Michal Tkáč, Dr. h. c. prof. RNDr., CSc. (Department of Quantitative Methods)</p>	<p><b>Performance and efficiency of medical facilities</b></p> <p>The performance and efficiency of medical facilities is directly determined by the performance and efficiency of their most expensive processes. In technical practice, there are a number of successfully implemented performance measurement models, or efficiency of processes. However, using these models in the field of health care generally requires a substantial modification of the relevant technical model.</p>	FTS/PTS

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<p>12. Robert Verner, doc. PhDr. Ing., PhD. MBA (1) (Department of Quantitative Methods)</p>	<p><b>The impact of macroeconomic variables on prices of corporate bonds</b></p> <p>The dissertation focuses on a comprehensive analysis of the impact of macroeconomic variables on the prices of corporate bonds. In the context of a rapidly changing global economic environment, it is important to understand how macroeconomic changes affect financial markets. The paper examines the relationships between key economic indicators such as inflation, interest rates, gross domestic product (GDP) and the unemployment rate, and their impact on the value of corporate bonds.</p>	FTS/PTS
<p>13. Robert Verner, doc. PhDr. Ing., PhD. MBA (2) (Department of Quantitative Methods)</p>	<p><b>The Impact of Inflation on Corporate Bond Markets in Emerging Economies</b></p> <p>The work focuses on investigating the impact of inflation on corporate bond markets in emerging economies. The work analyzes historical data, current trends and theoretical models regarding the relationship between inflation and profitability, prices and liquidity of corporate bonds. The work further identifies the main factors influencing this relationship, such as monetary policy, fiscal stimulus and macroeconomic indicators. The aim is to provide a comprehensive view of the mechanisms that shape corporate bond markets in the context of changing inflation and to suggest strategies for investors to minimize the risks associated with inflation.</p>	FTS/PTS
<p>14. Erik Weiss, doc. Ing., PhD., MBA (1) (Department of Commercial Entrepreneurship)</p>	<p><b>Economic and managerial approaches in electronic reservation and distribution systems for improving the efficiency of personalized tourism products creation in exotic destinations.</b></p> <p>The dissertation focuses on identifying effective approaches to creating personalized tourism products through modern technologies. The work analyzes the economic and managerial aspects of using reservation systems to optimize business processes and enhance the economic performance of enterprises.</p>	FTS/PTS
<p>15. Erik Weiss, doc. Ing., PhD., MBA (2) (Department of Commercial Entrepreneurship)</p>	<p><b>The Impact of Artificial Intelligence on the Effectiveness of Managerial Decision-Making in the Enterprise</b></p> <p>The dissertation will focus on analysing how artificial intelligence tools influence the quality, speed, accuracy, and rationality of managerial decisions, as well as on evaluating their impact on the performance, adaptability, and competitiveness of the enterprise.</p>	FTS/PTS
<p>16. Roland Weiss, doc. Ing, PhD., MBA (Department of Corporate Financial Management)</p>	<p><b>The Impact of Organising the UEFA European Under-21 Championship on the Economy and the Development of Sports Infrastructure in the Slovak Republic</b></p> <p>The dissertation focuses on a quantitative and qualitative analysis of the benefits associated with organizing such a significant sporting event and its impact on infrastructure development in Slovakia</p>	PTS
<p>17. Jozef Zuzik, doc. Ing., PhD. MBA (Department of Commercial Entrepreneurship)</p>	<p><b>The Impact of Underlying Asset Price Dynamics and Volatility on the Performance of Option Strategies</b></p> <p>The dissertation focuses on analyzing the impact of underlying asset price dynamics and volatility on the performance of option strategies. Particular attention is given to the relationship between realized and implied volatility and their effect on strategy returns under different market conditions. The empirical part applies quantitative methods to identify key determinants of strategy performance and evaluates their applicability in investment practice.</p>	FTS/PTS