

## List of supervisors and dissertation topics FIS 2024/2025

### Study Programme Applied Informatics

[prof. Ing. Josef Basl, CSc.](#)

Innovation of Enterprise Information Systems  
IT Applications for Industry 4.0  
Green Aspects of IS/IT Innovation  
Digital Innovation of Companies

[doc. Ing. Miloš Maryška, Ph.D.](#)

Internet of Things  
Industry 4.0  
Data and Business Analytics

[prof. Ing. Václav Řepa, CSc.](#)

Business Process Engineering  
Information Modelling of Organizations  
Information Modelling of Real-World Systems  
Information Modelling in Public Administration  
Information Modelling in Evidence-Based Health Care

[prof. Ing. Petr Berka, CSc.](#)

Knowledge Acquisition Methods

[prof. RNDr. Jiří Ivánek, CSc.](#)

Fuzzy Logic Operators for Data-Mining and Expert Systems

[doc. Ing. Tomáš Kliegr, Ph.D.](#)

Rule Learning

[prof. RNDr. Jan Rauch, CSc.](#)

Knowledge Discovery in Databases

[prof. Ing. Vojtěch Svátek, Dr.](#)

Ontological Engineering  
Linked Data on the Web

[Ing. Jiří Vomlel, Ph.D.](#)

Semantic Aspects of Data / Text Mining  
Bayesian networks for Educational Applications

[doc. Ing. Mgr. Zdeněk Smutný, Ph.D.](#)

Research in social informatics (or related fields such as computer-mediated communication; human-computer interaction; ICT and society; internet studies; science, technology and society) – is also suitable for graduates of master's programs in sociology, psychology, anthropology, media and communication studies or statistics

[doc. Ing. Vlasta Svatá, CSc.](#)

IT Audit (regulations, case studies, software support, challenges, trends)  
IT Process Assessment (CMMI, COBIT, maturity levels, capability levels, process automation)  
EGIT (Enterprise Governance of IT), ( frameworks, implementation, measures, assessment)  
Internal Audit (challenges, regulations, quality assessment, trends)

## Study Programme Econometrics and Operations Research

[prof. RNDr. Ing. Petr Fiala, MBA, CSc](#)

Analysis of network economy and supply chains  
Models of revenue management  
Models of auctions  
Biform games - theory and practice

[prof. RNDr. Jan Pelikán, CSc](#)

Discrete models in operations research  
Models of production and logistics

[prof. Ing. Josef Jablonský, CSc](#)

Intertemporal data envelopment analysis models  
Data envelopment analysis network models

[prof. Ing. Mgr. Martin Dlouhý, Dr., MSc](#)

Operational research applied to health service  
Resource allocation and data envelopment analysis

[prof. RNDr. Ing. Michal Černý, Ph.D](#)

Econometric analysis of special data: symbolic, interval, high-frequency, streams etc.  
Inference in partially identified models  
Imprecise inputs in optimization models  
Financial data and risk-management applications

[doc. Ing. Tomáš Formánek, Ph.D.](#)

Modelling macroeconomic impacts of the potential euro introduction in the Czech Republic  
Credit risk analysis in the banking sector  
Semi-parametric methods in spatial econometric analysis applications

## Study Programme Statistics

[doc. RNDr. Ivana Malá, CSc.](#)

Statistical Analysis of Interval Censored Data  
Regression models for censored data  
Robust models and their application in statistical modelling

[prof. Ing. Jakub Fischer, Ph.D.](#)

Regional Statistical Indicators

[doc. Ing. Jaroslav Sixta, Ph.D.](#)

Input-Output Accounts: Development and Extensions  
Measurement of Modern Society within National Accounts Framework