ACADEMIC UNIT FOR
BUSINESS INFORMATICS
AND LOGISTICS

Edition: January, 2017
Focus

• Effective utilization of IT in organizations and effective management of logistics.
• The leader in Slovenia in all fields mentioned in this presentation
• Among the leaders in the region (and even globally) in business process and supply chain management

Academic unit members

Head of academic unit:
   dr. Mojca Indihar Štemberger, full professor
Contact: mojca.stemberger@ef.uni-lj.si

14 full-time members, out of that:
  • 6 full professors
  • 2 associate professors
  • 1 assistant professors
  • 5 research and teaching fellows

Visiting faculty members:
  • 4 visiting full professors
Teaching

The academic unit offers programs in:

- **BUSINESS INFORMATICS**
- **BUSINESS LOGISTICS**

- Undergraduate studies in Slovenian
- Masters studies in Slovenian and English
- Doctoral studies in English

Teaching focus

- Good theoretical knowledge & hands-on skills
- Innovative ways of teaching
- Opportunity to work in consulting projects
- Many guests lecturers practitioners
- ”Social networking“: PIPL students society
- Opportunities for international exchange:
  1 Double Degree programme and 1 in preparation

Sample courses:

- Business intelligence and analytics
- Business logistics
- Business process management
- Digital business
- Economics of IT
- IS systems analysis and design
- Logistics management
- Optimization in logistics
Business Informatics

• Business informatics is one of the key areas organizations depend on for increasing effectiveness and efficiency of their business as well as gaining competitive advantage.

• It enables organizations to conduct business transformation by employing digital technology for successful business process and business model optimization.

ONE OF THE BEST DECISIONS IN MY LIFE

I was already working for two years in my old company when I got the idea to sign up for a master degree. It was a risky move to trade career advancement for a student status, but I decided to try. Now, when I look back, I see that was one of the best decisions in my life. Business Informatics program gave me the knowledge, lecturing guests from IT industry, confidence and support which at the end resulted with internship and dream job in Vienna.

Aleksandar Markelić from Bosnia, Head of Quality Assurance at AgenaTrader.com & Include Information Technologies GmbH, Vienna, Austria
Business Logistics

- Business Logistics is an interdisciplinary programme with renowned, award-winning lecturers and researchers from different fields that have strong ties in research and business community.
- The programme offers international exchange opportunities, has several guest lecturers from business and prepares students for a wide array of employment opportunities by using modern learning methods (e.g. interactive games) in small groups.
Main areas:

• Business Intelligence & Analytics
• Business Process Management
• Information Systems Management & Strategy
• Optimization
• Supply Chain Management & Logistics
• Technology Adoption

Focused on inter-disciplinary research, combining qualitative and quantitative methods with high impact on theoretical advances and solutions for digitised world.

„To raise new questions, new possibilities, to regard old problems from a new angle, requires creative imagination and marks real advance in science. “ – Albert Einstein.


IS Management & Strategy – Flagship publications


The benefits of meeting points in ride-sharing systems. Transportation research. Part B, Methodological, 82, 36-53.

Optimization of a highway project planning using a modified genetic algorithm. Optimization. 64(3), 687-707.

The impact of color combinations on the legibility of text presented on LCDs. Applied Ergonomics, 45(6), 1510-1517.


Supply Chain Management & Logistics – Flagship publications


Research impact (Citations)

Citations per year – quickly growing impact

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<thead>
<tr>
<th>Year</th>
<th>WoS</th>
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h-index (Scopus) 2007-2017: 24

Highly-cited papers: 6 papers are among the top 1% most cited papers in Scopus

a) Supply chain risk in turbulent environments - a conceptual model for managing supply chain network risk
b) The critical success factors of business process management
c) Business model: What it is and what it is not
d) The impact of business process orientation on financial and non-financial performance
e) Understanding the internet banking adoption: A unified theory of acceptance and use of technology and perceived risk application
f) Towards business intelligence systems success: Effects of maturity and culture on analytical decision making
Research institutions with most research papers on “Business processes”

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Note: retrieved from Web of Science (Core Collection) on January, 9 2017. Search term: topic=“business process”, papers published between 2007 and 2017

“Scientists have become the bearers of the torch of discovery in our quest for knowledge.” – Stephen Hawking.
10 most influential papers on supply chain risk management

Consulting & Dissemination

• We carry out many:
  • Consulting & Research projects for Slovenian and international companies and public sector organization
  • Different business education & training events: seminars, workshops, roundtables and similar events, which are designed for people from practice
  • Digital Transformation Academy
  • Cutting Edge of Digital Mind Conference
  • Supply Chain Planning and Analytics
  • Day of Business Informatics
  • Day of Business Logistics

• Aimed to transfer the research findings into practice...
• ... and get new ideas/access to case studies for research 😊
Consulting & Research projects

Business Process Management

- The influence of process orientation, redesign and IT support for business process on organizational performance (2009-2012)
- Analysis of business processes, reorganization and optimization for Post of Slovenia (2011-2012)
- Analysis of business processes, reorganization and optimization MDDSZ (2011)
- Proposal for organization of sales process in Snaga Public Company (2011)
- Business process and information technology governance system implementation in Surveying and mapping authority of the Republic of Slovenia (2010)
- Business process redesign on the Health Insurance Institute of Slovenia (2009-2010)
- Modelling, analysis and suggestion for process reseign for Dravske elektrarne Maribor d.o.o. (2009)
- Modelling, analysis, and renovation of business process in Mobitel d.d. for the needs of Documentum project (2008-2009)
- Modelling, analysis and suggestions for redesign for Kovintrade d.d. (2007)
Supply Chain Management & Logistics

- Optimization of transport in "Habjan transport" (2014)
- Management and IT support for supply chain management (2011-2014)
- Business process modelling, analysis and redesign for Post of Slovenia, funded by Post of Slovenia (2011-2012)
- Value-at-Risk project for Chrysler (in cooperation with DRK Research Institute, Raleigh, USA) (2007-2008)

Business Intelligence & Analytics

- The concept design for business intelligence in the company Snaga (2008)
- The analysis of the planning process and the solutional proposal for National Radio-Television of Slovenia (2007)

Technology Adoption

- Optimization of nurse scheduling at University Medical Centre Ljubljana (2016 - 2017)
- The design of modern approaches to IT in healthcare (2015)
- Study of the impact of informatization on the efficiency of judicial system – Competitiveness of Slovenia 2006-2013 (2010-2012)
- Broadband adoption in rural areas (2007-2008)
- Breath: Broadband e-services and access to the home (2006-2007)