

Course title: Analysis and Improvement of Business Processes

Course code: 63546K

ECTS: 6

Professor: doc. dr. Damjan Fujs

Undergraduate/ master program

Prerequisite knowledge:

Undergraduate software engineering skills.

Short course description:

The course aims to transfer the knowledge necessary for a comprehensive understanding of the analysis and improvement of business processes (e.g., within the framework of complex information systems in the light of digital transformation). In doing so, students develop analytical and critical thinking skills with the help of business process intelligence. The course aims to provide students with insight into the key frameworks, technologies, and processes for digital transformation throughout the entire information systems development cycle (e.g., state analysis, requirements capture, modeling of business information architectures, ...). Lab works are performed in the form of work on a selected project that a student will choose in agreement with the lecturer.

After completing the course, the students will:

- Know the theoretical aspects and practical limitations of different approaches in the framework of business process analysis and improvement.
- Know different approaches to business process improvement (requirements engineering, business information architecture modeling, decomposition, re-engineering, ...).
- Know how to use tools for capturing requirements (both functional and non-functional, business information architecture planning, modeling, ...).
- Know the engineering processes in the light of digital transformation (specifics of software engineering, specifics of service engineering, etc.).
- Know the processes of improving and innovating business processes.
- Know how to combine existing knowledge from the broader field of computer and information science and connect it with the specifics of digital transformation.
- Understand the practical application based on examples from use in industry.
- Know techniques for making decisions in the case of information symmetries.
- Be able to delve into the content and get a feel for the details in complex information systems/business processes.

Note: for international students, the course is delivered through a “mentorship-based approach”. If you're interested and have any questions about the course or the working methods, feel free to contact me at damjan.fujs@fri.uni-lj.si.