

**Course title: Data mining**

**Course code: 63765**

**ECTS: 6**

**Professor: Tomaž Curk**

**Undergraduate program**

**Short course description:**

- Introduction, motivation
- Refreshment of machine learning and statistics
- Data visualization, good and bad examples
- How to combine visualization, machine learning and statistics
- Discretization of continuous data; handling unknown and noisy data using a combination of automated methods and expert's knowledge
- Methods for variable selection and construction, and discovery of interactions
- Common scenarios in data mining: • Rare event prediction • Working with unbalanced classes • Cost-sensitive prediction • Recommendation systems • Churn prediction and similar problems
- Introduction to popular data mining tools