

## **Master of Software Engineering**

4 semesters, 120 ECTS credits

Language: English

### **Mission:**

Provide students with advanced software engineering knowledge, instruct them in current techniques, develop innovation, team and management skills, leading to successful careers in software development and research.

### **Program:**

- breadth courses in core areas at advanced level (Algorithms, Programming languages, Databases, Distributed Systems)
  - depth courses focusing on major topics (Component-based systems, Real-time systems, Advanced Web Programming)
  - free electives for specialization (Machine Learning, Parallel Algorithms, Pattern Recognition)
- Directed research leads to a dissertation in the 4th semester.

**Career outlook:** Software systems are very complex, yet must be reliable, safe and secure, as part of our everyday infrastructure. Market pressure requires agile development and evolution, making development an exciting technical challenge. You will acquire solid engineering principles, key to delivering quality projects on time, and leading to a productive career.

Timișoara is a strong IT center with opportunities in fields like automotive, telecommunications, printing solutions, security, and enterprise applications.