



## INDUSTRIAL MASTER THESIS IN ENGINEERING AND MANAGEMENT

---

### *Description of the innovative teaching practice*

The participants will have opportunity to do research on an interdisciplinary topic, proposed by an industry partner. Each student will have a mentor from university, and co-mentor from industry. At least 3 events will be organized where students will present the progress in their research, communicate the research topic with wider public, promote the research results. This innovative teaching practice is beneficial for students in all engineering fields. These skills are transferable to the work environment and it expected to support them in their career progress.

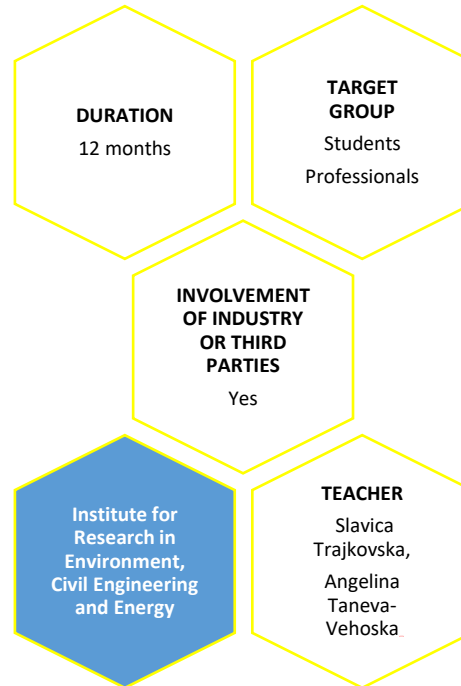
The objectives of the innovative teaching practice:

- Do research on relevant engineering topic
- Have possibility to collaborate with professionals from industry, and receive direct feedback on the research results
- Explore options for commercialization of the results
- Have higher satisfaction because the knowledge created and research done is meaningful with applicative possibility

---

### *Skills to be acquired/ improved:*

- **Hard skills – Basic/fundamental skills:** Knowledge in the specialized area, Technical skills
- **Hard skills – Conceptual/thinking skills:** direct impact on Research and managing data and Critical and Analytical thinking
- **Soft skills – People related skills:** direct impact on Collaboration and Communication
- **Soft skills – Personal skills:** direct impact on Professionalism, Flexibility/adaptability, and indirect impact on Work Ethic
- **Business skills:** direct impact on Creativity/innovation, Strive for quality and Dealing with real world problems)



---

### ***Methods and techniques***

- Format > Industrial master thesis
- Techniques completed with individual work: experiments, discovery
- Techniques completed in teams: debate, demonstration, problem solving
- Available resources via e-learning platform: articles, books, presentations, forum, video materials

---

### ***Methods for assessment and evaluation of the practice***

#### **Methods for assessment**

- Master thesis
- Presentations

#### **Methods for evaluation**

- Evaluation lists and feedback from students
- Testimonials from students during implementation phase
- Feedback from professionals from industry