



## DESIGN THINKING – CASE STUDY (IMPROVE FIELD EDUCATION AND LEARNING FROM PRACTICE)

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### ***Description of the innovative teaching practice***

During a course, students will have opportunity to develop new hard and soft skills through design thinking (case study) methodology. The methodology is based on engaging the participants in active learning, utilizing several techniques and skills. The participants will work on accomplishing specific goal that will be set by the professor at the beginning of the practice. They will learn how to work in real multidisciplinary and interdisciplinary environment, how to combine their so far gained knowledge by trying to find appropriate solutions for given problem. In addition, strategy will include site visit and work on real problem within the community.

This innovative teaching practice will develop non-linear mind process in order to understand requests from other professions, final users as well as constrains regarding possible solutions, redefine problems and create innovative solutions, be introduced and work on real problem in the civil engineering sector and work on site in groups.

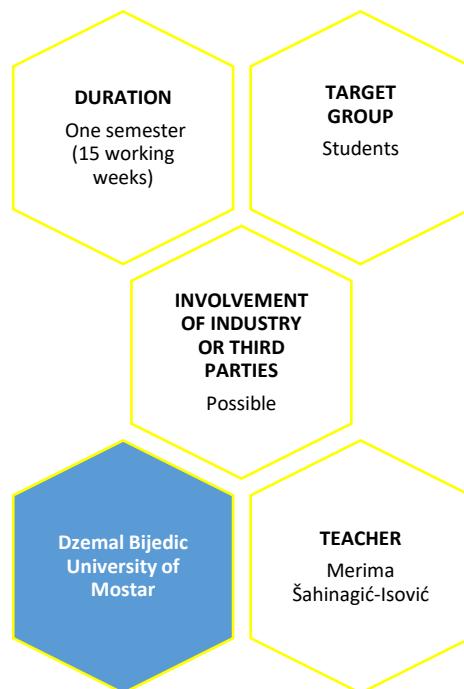
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### ***Skills to be acquired/ improved:***

- **Hard skills – Conceptual/thinking skills:** planning and organizing, research and managing data
- **Soft skills – People related skills:** collaboration/team work and interpersonal skills
- **Soft skills – Personal skills:** flexibility /adaptability



- **Business skills:** dealing with real world problems and creativity/innovation



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

- **Format** – project based learning
- **Techniques completed with individual work:** discovery, problem solving, learning, rationality to meet needs of others (users, protected buildings, etc)
- **Techniques completed in teams:** problem solving – problem based learning, debate, presentation, work on site, creativity,
- **Available resources via e-learning platform:** articles, presentations.

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### ***Methods for assessment and evaluate on of the practice***

#### **Methods for assessment:**

- Pre- and post- self-assessment

#### **Methods for evaluation:**

- Evaluation lists and feedback from students
- Testimonials and photos from students during implementation phase