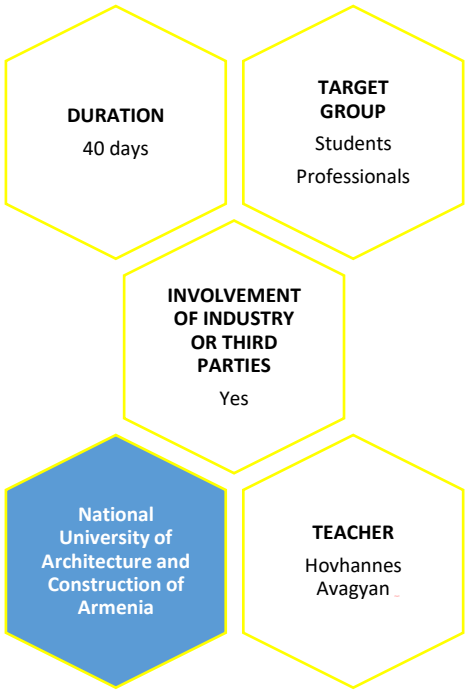
LEARNING BY DOING SCIENCE

Description of the innovative teaching practice

- During a period of 40 days the participants will have opportunity to develop new skills and challenge their behaviour by developing conceptual understanding.
- With this learning process the participants will have opportunity to be engaged with authentic scientific tools and practices such as controlling remote laboratory experiments, can build science inquiry skills, improve conceptual understanding, and increase motivation.

Skills to be acquired/ improved:

- **Soft skills – People related skills**: direct impact on science inquiry skills
- **Soft skills – Personal skills:** direct impact on Professionalism by controlling remote laboratory experiments
- **Hard skills – Conceptual/thinking skills**: direct impact on conceptual understanding



Methods and techniques

- Format – Learning by Doing Science
- Techniques completed with individual work: mental models, problem solving, improving conceptual understanding.

- Techniques completed in teams: problem solving, doing experiments.
- Available resources via e-learning platform: articles, remote-experiment video materials, presentations

Methods for assessment and evaluation of the practice

Methods for assessment:

- Pre- and post- self-assessment
- Experiments results achieved after doing them

Methods for evaluation:

- Evaluation lists and feedback from students