



# CERTIFICATE

of participation

**Roman Khainas**

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in the scientific and pedagogical intership:

**Use of innovative, information and  
pedagogical educational platforms and  
technologies in teaching IT disciplines**

*Total hours: 180 (6 ECTS)*



Dec 20, 2024 - Jan 10, 2025  
Slovakia, Dubnica nad Váhom

Dr.h.c. prof. PaedDr. Tomáš Lengyelfalusy, PhD.  
rector of DTI University

The topic of scientific and pedagogical internship:

## **„Use of innovative, information and pedagogical educational platforms and technologies in teaching IT disciplines“**

- **Course 1** (30 hours)  
Integrating traditional lectures with online courses, videolectures, and interactive exercises on Moodle, Canvas, or Google Classroom platforms. Utilizing educational platforms for independent study and knowledge assessment
- **Course 2** (60 hours)  
Development of courses aligned with ACM/IEEE standards, incorporating platforms such as Coursera, Udemy, or OpenEdX. Using GitHub Classroom as a tool to organize practical sessions in accordance with industry standards
- **Course 3** (60 hours)  
Implementing gamified elements (points, rankings, achievements) on platforms like Moodle or CodeCombat. Developing interactive programming scenarios using gaming platforms (e.g., Minecraft Education)
- **Course 4** (30 hours)  
Applying Jupyter Notebook for interactive learning in programming, machine learning, and data analysis. Creating interactive courses with practical tasks on the Udemy platform to enhance students' professional development skills

Total hours: 180 hours (6 ECTS)

Date of the internship in Slovakia:  
Dec 20, 2024 - Jan 10, 2025