Cryptologic overview and introduction to software testing

Brief description of the course:

The aim of the course is to discuss two areas of computer science, namely an overview of cryptology - from history to the basis of modern algorithms. Further, introduce students to the area of SW testing - how testing is important, how it is related to software development and why its importance is increasingly important.

Prerequisites: Basic knowledge of the issue

Type of Activity: Theoretical and practical preparation of participants

The number of hours: 40

Course language: Czech/Ukrainian

Maximum number of course participants: 12

Detailed course description:

- Cryptology and terminology
- History of cryptology
- Conventional cryptographic algorithms - substitution and transposition
- Introduction to modern cryptology
- Software testing - reason and motivation
- Linking SW testing to SW development
- Who tests and when
- Creating tests

Course goal: Obtaining basic knowledge of the issue

Awaited results: General knowledge of the issue

Assessment (Micro-credential type): 80% participation in the course, submission of the assigned task/project.

Schedule: August 2024