





### **Poznan University of Technology** Faculty of Computing and Telecommunications

michal.apolinarski[at]put.poznan.pl

Course: Application Security - laboratories

Lecturer: Michał Apolinarski, Ph.D.

**Topic:** Security audit – white-box approach (code review)

Duration (on site): 270 min.

## **PREREQUISITES:**

Knowledge of computer networks, operating systems, cryptography. Knowledge of programming languages, basic knowledge of penetration tests.

## **GOALS:**

- The aim of the class is to security audit in **a white-box approach** of your / your colleagues' / open-source software to find any vulnerabilities that results in access gain to unauthorized operations and malfunction.
- Preparing a report of the performed tasks.

## **INSTRUCION** (tasks for a group of max 2 persons):

- 1. Like in the previous class as the target of security audit choose:
  - a. custom application developed and shared by your colleagues' during this course,
  - b. open-source application from previous classes of this course,
  - c. your own applications (if you don't have above options).
- 2. In white-box approach you have access to apps components analyze internal structures in search of potential security vulnerabilities, malfunctions or design failures.
- 3. Use the knowledge you have gained about the application and run the selected penetration tests again (using Kali Linux or other tools) and own manual tests as in previous classes.
- 4. Prepare and send to the lecturer a report of performed tests (positive and false), results and your analysis.







# **REPORT:**

- Should include a title page with full details of the student, course and exercise being reported.
- Should be carefully edited and provide evidence of the completion of all exercises confirmed by screenshots, answers and conclusions.
- Complete report should be send to the lecturer.