# Secure Software Engineering Lab

Lab 1: Security Requirements

Institute of Software Security (E-22)

#### 1. Objectives

Apply the knowledge acquired in the lectures on the following areas of software security:

- Elicitation of security goals.
- Elicitation of security requirements.
- Elaboration of misuse and abuse cases.
- Security specification patterns (KAOS).

#### 2. Tasks

- 1. Read and discuss the "Metaverse Case Study".
- 2. Elaborate on the functional requirements of the Metaverse.
  - Use the "user stories" template.
  - Leave quality attributes like privacy and security out of your analysis at this stage.

## 3. Elaborate the security goals of the Metaverse.

- Identify the assets from the user stories.
- Conduct a harm analysis.
- Identify avoid goals.
- Identify achieve goals.

## 4. Identify potential security threats to the Metaverse.

- Identify potential attackers of the system.
- Elaborate misuse cases and extract security requirements.

## 5. Elaborate security goals and anti-goals using the KAOS specification patters.

## 3. Materials

Case study, lecture slides, lab slides, and the "user stories" template.