**Security and privacy in the internet of things (ECTS credits: 8)**

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Language: the course is offered in Serbian.

**Course description:**

The goal of the Security and Privacy in the IoT course is to teach students about security and privacy concerns, issues and challenges in IoT systems.

This course covers the following topics:

Cybersecurity and the Internet of Things. IoT system architecture. Security and privacy requirements and challenges in IoT. Security threats, vulnerabilities and attacks in IoT. Cryptography for IoT security engineering. Identity and access management in IoT. Security challenges, intrusion detection and prevention. Mobile security in IoT. The secure IoT system implementation lifecycle. Preserving privacy in IoT systems. Cloud security for the IoT. IoT incident response and forensic analysis.

**Aims:**

Through lectures, lab exercises and projects, the students will get practical knowledge of security risks and vulnerabilities, intrusion detection and recovery options, as well as how to apply protection methods, techniques and tools in IoT environments.