

SYLLABUS
IT 7313: Physical IT Systems Security
FALL 2023

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Course Learning Objectives:

1. Describe basic security concepts and threats within common physical IT systems such as IoT and mobile system.
2. Describe secure physical IT system architecture, application, packaging and delivery.
3. Apply containerization to secure physical systems with real devices and emulators.
4. Analyze vulnerabilities within hardware, software, network and infrastructure in the physical IT systems with hands-on tools.
5. Design defense mechanism and apply best practices to prevent attacks on the physical systems.