



Connecting Things

Foundational



IoT

Course Overview

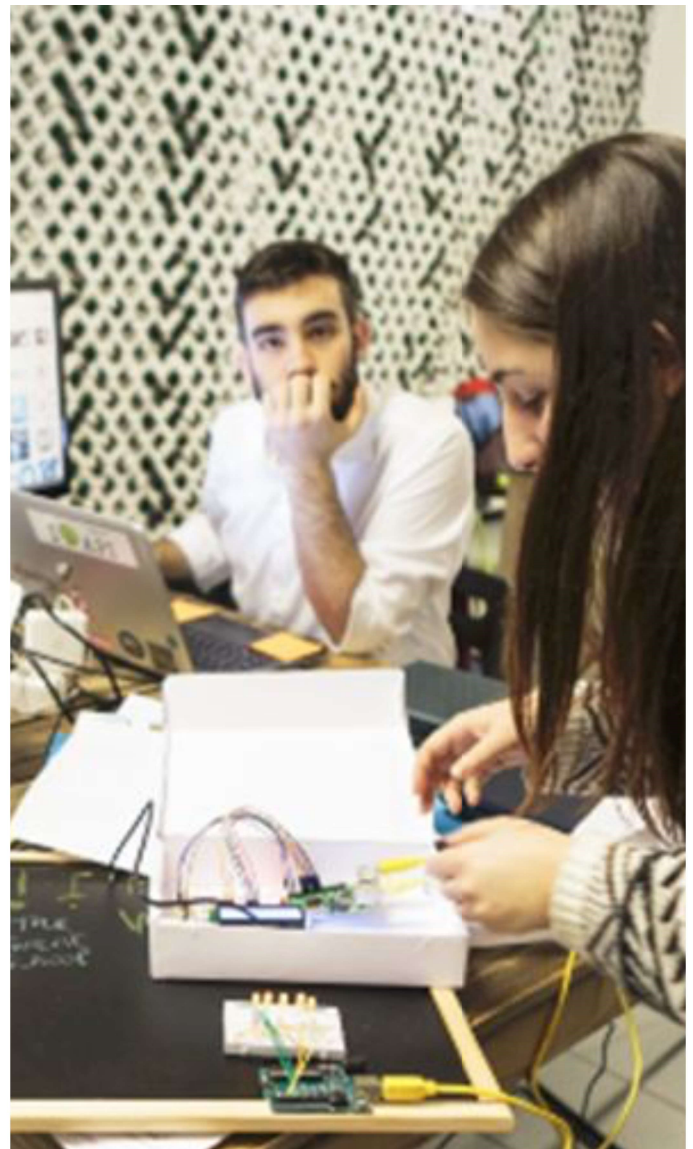
In Connecting Things, students learn how digitalization is transforming industries such as manufacturing, energy, and smart cars. Using a hands-on approach, they securely interconnect sensors, actuators, microcontrollers, single-board computers, and cloud services over IP networks to create an end-to-end IoT system.

Benefits

Students will develop interdisciplinary skillsets required to prototype an IoT solution for a specific business case with a focus on the security considerations for emerging technologies.

Learning Components

- 6 chapters
- 31 hands-on labs
- 10 Cisco Packet Tracer activities
- 12 interactive activities
- 6 chapter exams, 1 final exam



Target Audience: Secondary, Vocational, 2-year and 4-year College, 4-Year University students

Prerequisites: Basic programming, networking and electronics

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Estimated Time to Complete: 50 hours

Recommended Next Course: IoT Fundamentals: Big Data & Analytics or Hackathon Playbook