EE 411 : Internet of Things

This course introduces the principles, technologies, challenges, and required expertise needed for building the Internet of Things (IoT) solutions. It provides a big picture of what is involved in IoT. Topics covered in this course include analog and digital sensing, interfacing sensors with microcontrollers, digital communication protocols, microcontroller choices and capabilities, gateways, fog computing, networking, cloud computing, need and challenges for cryptography and compression, security issues, and low power/energy challenges. The course involves a hands-on-experience that culminates in an implementation project.

Credits 3
Lab Hours 0
Lecture Hours 3
Tutoring Hours 0
Prerequisites
EE 390
Corequisites
None