

# Internet of Things (IoT) Laboratory

IoT Lab is a research platform exploring the potential of crowd sourcing and Internet of Things for multidisciplinary research with more end-user interactions. It gives the power to the crowd to be at the core of the research and innovation process. It gives you the power to change the world and the way we understand it. This lab aims at providing the student with the practical concept of IoT systems design.

- It provides an overview of the IoT systems' aspects including embedded intelligence, connectivity, interaction with the physical world, etc.
- It covers the main design and implementation issues for IoT devices and their applications.
- The students gain in-depth practical experiences in embedded system design with a focus on IoT applications as well as communication in connected devices.
- The students will understand the main concept of IoT systems will gain the ability to develop software programs for the IoT embedded devices, implement the code on the hardware, conduct the tests, find the bugs and errors, and debug the software code on the hardware.

## Hardware Facilities

- CC3200 Launch HXL (Development Kit)
- CC3100 Wireless network
- IoT 4G Gate Way
- IoT 4U
- LaunchXL CC1310
- TIVA Launch Pad
- Rasp-berry Pi
- Arduino At Mega 328
- Node MCU

