

Internet of Things (IoT)

Description

We have a complete hands on training in IOT. This course is designed to clear your concepts in embedded systems & IOT using complete practical approach. You will develop various interesting & innovative projects during this course.

Expectations and Goals

- Students are able to design IOT based project using different arduino or python programming support board
- Students are able to design electronics based hardware circuit
- Students are able to connect with WiFi devices
- Students are able to write arduino code for IOT based project

Prerequisites

C and basic microcontroller knowledge mandatory for IOT training

Course Schedule

Module	Topic
Module 1	Introduction to IOT Scope, opportunity, application IOT PROTOCOL IOT Architecture Different IOT Devices Networking concept Introduction to arduino programming Introduction to python programming
Module 2	WiFi devices WiFi connection AT Command for WiFi access WiFi board setup (processor and controller) Programming with I/o ports Analog sensor interfacing Digital sensor interfacing LED and motor interfacing concept Load control using WiFi based system
Module 3	Introduction to cloud computing Working with different cloud services Local IOT Global IOT Introduction to HTML Basic HTML code for web design Data upload into cloud WiFi based device control
Module 4	Introduction to MIT App Inventor App design using MIT app inventor
Module 5	Project work and documentation